THE JOHNS HOPKINS UNIVERSITY

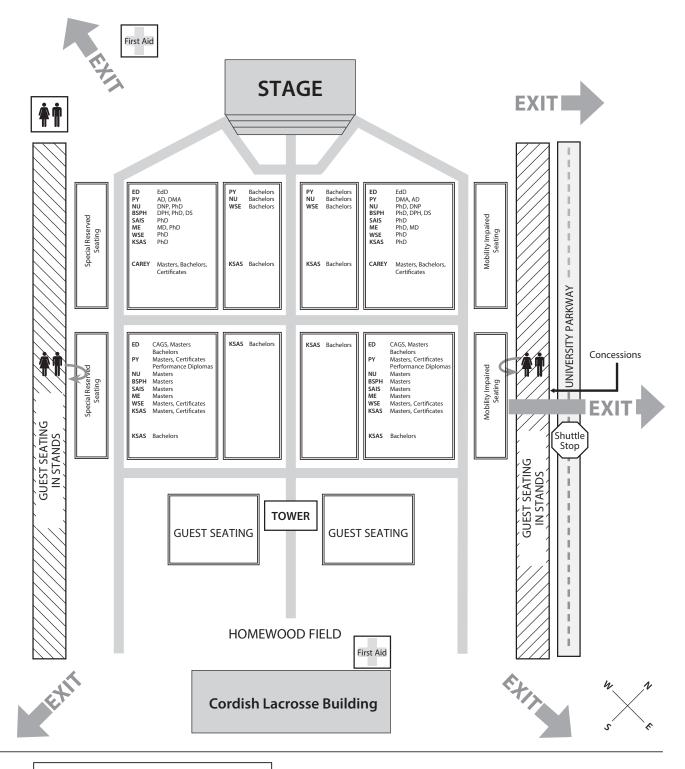
May 21, 2015

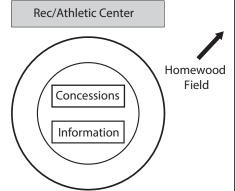
Conferring of Degrees at the close of the 139th academic year

# 2015 COMMENCEMENT

TAS

BERAB





Stay connected throughout the day! Share your thoughts and photos with us on Twitter  $\mathbf{Y}$  and Instagram  $\mathbf{\overline{S}}$ .

Find us at @JHUCommencement and use the tag #jhu2015.

# **C**ONTENTS

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Please note that while all degrees are conferred, only doctoral and bachelor's graduates process across the stage. Taking photos from your seats during the ceremony is allowed, but we request that guests respect each other's comfort and enjoyment by not standing and blocking other people's views. Photos of graduates can be purchased from GradImages®: gradimages.com or (800) 261-2576.

The Johns Hopkins University is strongly committed to protecting the environment and practicing sustainability at all of our campuses. Today is no exception. Once again this year's ceremony will be carbon neutral and zero waste. By using plant-based biodiesel to power the equipment on Homewood Field, we are avoiding fossil fuels and the associated impact on climate change. And since all waste will be composted or recycled, it will go to productive reuse instead of being incinerated. We are also highlighting our sustainability principles during Commencement in other ways: This program is printed on post-consumer recycled-content paper; our caterers are local and specialize in green practices; and most information was posted on the Internet to cut down on printed materials. We invite you to join our efforts to be sustainable by placing your bottles and cans in the green bins and all your food and paper waste in the yellow bins.

# **ORDER OF CANDIDATE PROCESSION**

Bachelors — Peabody Conservatory of Music Bachelors — School of Nursing Bachelors — G.W.C. Whiting School of Engineering Bachelors — Zanvyl Krieger School of Arts and Sciences Doctors of Education — School of Education Artist Diplomas and Doctors of Musical Arts — Peabody Conservatory of Music Doctors of Nursing Practice and Doctors of Philosophy — School of Nursing Doctor of Science, Doctors of Public Health and Doctors of Philosophy - Bloomberg School of Public Health Doctors of Philosophy — Paul H. Nitze School of Advanced International Studies Doctors of Medicine and Doctors of Philosophy — School of Medicine Doctors of Philosophy — G.W.C. Whiting School of Engineering Doctors of Philosophy — Zanvyl Krieger School of Arts and Sciences Masters, Certificates and Bachelors — Carey Business School Masters, Certificates and Bachelors — School of Education Performance Diplomas and Masters — Peabody Conservatory of Music Masters — School of Nursing Masters — Bloomberg School of Public Health Masters — Paul H. Nitze School of Advanced International Studies Masters — School of Medicine Masters and Certificates — G.W.C. Whiting School of Engineering Masters and Certificates — Zanvyl Krieger School of Arts and Sciences

# **ORDER OF PROCESSION**

# Marshals for the Graduates

Chadia N. Abras William W. Agresti Ruth H. Aranow Doug Barrick Eric Beatty Adriene Breckenridge Terry Ray Brown Kathleen A. Bruffett Beryl Castello Lori Citti Tristan Davies Renee De Mott Anne Eakin Moss Peter Espenshade Irene C. Ferguson Daniel Ferrara Cristina Finan Deborah Finnell

- Joan Freedman Jeffrey J. Gray Kevin Hemker Joanne Katz Howard Katz Scott E. King Thomas W. Koenig Gary Louie Patrick McDonald Jean McGarry Carol Mohr Sara More Brent S. Mosser Robert Muckenfuss Daniel Naiman Kristina Nance Steven Rainbolt **Julie Reiser**
- Joshua J. Reiter Eric Rice Michelle Rodriguez Solomon Tiffany T. Sanchez LaTonia Sanders Mine Senses Mieka Smart William D. Smedick Kay Smith Sarah Szanton Mary Terhaar Patrick E. Trujillo Leslie Tung David Verrier Xiaoqin Wang Linda M. White Raimond Winslow Demere G. Woolway

#### The Graduates

*Marshals for the Faculties* Kelly A. Gebo and Cheryl Holcomb-McCoy

The Faculties

*Marshals for the Principals* David M. Phillips and Stephanie L. Reel

Officers of the University

The Trustees

Members of the Senior Class Council

## Student Chairs of the Hopkins Fund

Readers for Presentation of Degree Candidates

Andrew S. Douglas James L. Fry James Goodyear Christine T. Kavanagh Terry Martinez Cindy L. Parker Dorothy Sheppard Janet H. Weise

#### Handshakers

Sarah Clever Valeria Culotta Norma Day-Vines Paul Mathews Marie T. Nolan Edward Scheinerman Joel F. Schildbach John Toscano

#### Chief Marshal

Robert C. Lieberman Provost and Senior Vice President for Academic Affairs

The Deans

The President of the Alumni Association

The Honorary Degree Candidates

The Chair of the Board of Trustees

Ronald J. Daniels The President of the University

# **O**RDER OF **E**VENTS

# PRELUDE

The Archipelago Project

# PROCESSION

The Archipelago Project

The audience is requested to stand as the Processional moves into the area and to remain standing until after the national anthem.

# INVOCATION

Kathy Schnurr University Chaplain

THE NATIONAL ANTHEM OF THE UNITED STATES OF AMERICA Performed by Tariq Al-Sabir, *Peabody Class of 2015* 

# GREETINGS

Jeffrey H. Aronson Chair of the Board of Trustees

# GREETINGS

Jay L. Lenrow President of the Johns Hopkins Alumni Association

# REMARKS

Ronald J. Daniels President of the University

# CONFERRING OF HONORARY DEGREES

Marin Alsop Edwin E. Catmull Elijah E. Cummings Anthony W. Deering Kathryn R. Deering Anthony S. Fauci Leon Fleisher William E. Kirwan

# REMARKS

Destiny Dawn Bailey President, Class of 2015

# ANNOUNCEMENT OF AWARDS

Destiny Dawn Bailey President, Class of 2015

and

Jay L. Lenrow President of the Johns Hopkins Alumni Association

# COMMENCEMENT CEREMONY ADDRESS

Edwin E. Catmull President of Pixar and Walt Disney Animation Studios

# PRESENTATION OF SENIOR CLASS GIFT

Presented by Janice Maame Bonsu and Michelle Hannah Edelson *Gift Chairs, Class of 2015* 

Presented to Ronald J. Daniels, President of the University

# **CONFERRING OF DEGREES ON CANDIDATES**

Doctors of Education

PRESENTED BY David W. Andrews Dean, School of Education

Doctors of Musical Arts

PRESENTED BY Fred Bronstein Dean, Peabody Institute

Doctors of Nursing Practice Doctors of Philosophy

PRESENTED BY Patricia M. Davidson Dean, School of Nursing

Doctors of Public Health Doctors of Philosophy

PRESENTED BY Michael J. Klag Dean, Bloomberg School of Public Health

Doctors of Philosophy

PRESENTED BY Vali R. Nasr Dean, Paul H. Nitze School of Advanced International Studies

> Doctors of Medicine Doctors of Philosophy

PRESENTED BY Paul B. Rothman Frances Watt Baker, MD, and Lenox D. Baker Jr., MD Dean of the Medical Faculty Doctors of Philosophy

PRESENTED BY T. E. Schlesinger Benjamin T. Rome Dean G.W.C. Whiting School of Engineering

Doctors of Philosophy

PRESENTED BY Beverly Wendland James B. Knapp Dean Zanvyl Krieger School of Arts and Sciences

Masters of Science Masters of Business Administration Graduate Certificates Bachelor of Business Administration Bachelors of Science Carey Business School

Certificates of Advanced Graduate Study Post-Master's Certificates Masters of Science Masters of Education Masters of Arts in Teaching Graduate Certificates Bachelors of Science School of Education

Graduate Performance Diplomas Masters of Music Masters of Arts The Peabody Institute

# **CONFERRING OF DEGREES ON CANDIDATES (CONTINUED)**

Masters of Science in Nursing Masters of Science in Nursing/Masters of Public Health Master of Science in Nursing/Master of Business Administration School of Nursing

> Masters of Science Masters of Science in Public Health Masters of Health Science Masters of Health Administration Masters of Public Health Masters of Public Policy Bloomberg School of Public Health

Masters of Arts Masters of Arts in International Affairs Masters of International Public Policy Paul H. Nitze School of Advanced International Studies

> Masters of Science Masters of Arts Post-Baccalaureate Certificates School of Medicine

Post-Master's Advanced Certificates Masters of Science in Engineering Masters of Science in Engineering in Bioengineering Innovation and Design Masters of Science in Engineering in Financial Mathematics Masters of Science Masters of Science in Engineering Management Masters of Chemical and Biomolecular Engineering Masters of Civil Engineering Masters of Environmental Engineering Masters of Materials Science and Engineering Masters of Mechanical Engineering Masters of Arts Graduate Certificates Certificates of Advanced Study in Nanobiotechnology G.W.C. Whiting School of Engineering

Post-Master's Certificate in Sequence Analysis and Genomics Masters of Science Masters of Science in Applied Economics Masters of Science in Bioinformatics Masters of Science in Bioscience Regulatory Affairs Masters of Science in Biotechnology Masters of Biotechnology Enterprise and Entrepreneurship Masters of Science in Energy Policy and Climate Masters of Science in Environmental Sciences and Policy Masters of Science in Geographic Information Systems Masters of Science in Regulatory Science Masters of Fine Arts Masters of Arts Masters of Arts in Applied Economics Masters of Arts in Communication Masters of Arts in Global Security Studies Masters of Arts in Government Masters of Arts in Museum Studies Masters of Arts in Public Management Masters of Arts in Science Writing Masters of Arts in Writing Masters of Liberal Arts Master of Science in Biotechnology/Master of Business Administration Master of Arts in Communication/Master of Business Administration Masters of Arts in Government/Masters of Business Administration Certificates in National Security Studies Graduate Certificates in Geographic Information Systems Post-Baccalaureate Certificate in Digital Curation Post-Baccalaureate Certificate in Non-profit Management Post-Baccalaureate Certificates, Premedical Program Zanvyl Krieger School of Arts and Sciences

> PRESENTED BY Robert C. Lieberman Provost and Senior Vice President for Academic Affairs

> > Bachelors of Music PRESENTED BY Fred Bronstein Dean, Peabody Institute

> > Bachelors of Science PRESENTED BY Patricia M. Davidson Dean, School of Nursing

Bachelors of Science in Applied Mathematics and Statistics Bachelors of Science in Biomedical Engineering Bachelors of Science in Chemical and Biomolecular Engineering Bachelors of Science in Civil Engineering Bachelors of Science in Computer Engineering Bachelors of Science in Computer Science Bachelors of Science in Electrical Engineering Bachelor of Science in Engineering Mechanics Bachelors of Science in Engineering Mechanics Bachelors of Science in Environmental Engineering Bachelors of Science in Materials Science and Engineering Bachelors of Science in Mechanical Engineering Bachelors of Arts in Applied Mathematics and Statistics Bachelors of Arts in Biomedical Engineering Bachelors of Arts in Computer Science

> PRESENTED BY T. E. Schlesinger Benjamin T. Rome Dean G.W.C. Whiting School of Engineering

Bachelors of Science in Molecular and Cellular Biology Bachelors of Science in Neuroscience Bachelors of Arts in Neuroscience Bachelors of Science in Physics Bachelors of Arts

> PRESENTED BY Beverly Wendland James B. Knapp Dean Zanvyl Krieger School of Arts and Sciences

### THE JOHNS HOPKINS UNIVERSITY MOTTO

Veritas vos liberabit

#### RECESSIONAL

The audience is requested to remain standing until the principals, officials, members of the faculties and the graduates have left the area. The graduate marshals will lead the bachelor's candidates to Gilman Hall on Keyser Quadrangle to pick up their diplomas. The doctoral and master's graduates will be led back to the Newton H. White Athletic Center.

Immediately following the ceremony, graduates and their families are invited to attend the President's Reception on Keyser Quadrangle. Light refreshments will be served.

Music for today's ceremony and President's Reception is provided by The Archipelago Project, a not-for-profit performance ensemble that brings music education to underserved communities around the world. Archipelago hosts a yearly residency with Baltimore City Public School students that coincides with JHU graduation. The group consists of musicians from the United States, Germany and Austria, and includes JHU faculty member Daniel Trahey and Peabody alumnus Peter Lander. The Archipelago Project is accompanied today by Peabody Institute students and alumni including Rafaela Dreisin and Tyronne Page. For more information, please visit archipelagoproject.org.

# THE JOHNS HOPKINS SOCIETY OF SCHOLARS

The Society of Scholars was created on the recommendation of then university president Milton S. Eisenhower and approved by the university board of trustees on May 1, 1967. The society—the first of its kind in the nation—inducts former postdoctoral fellows, postdoctoral degree recipients, house staff and junior or visiting faculty who have served at least a year at Johns Hopkins and thereafter gained marked distinction elsewhere in their fields of physical, biological, medical, social, or engineering sciences or in the humanities and for whom at least five years have elapsed since their last Johns Hopkins affiliation.

The Society of Scholars Selection Committee, whose members are distributed among academic divisions with postdoctoral programs, elects a limited number of scholars from the candidates nominated by the schools. The scholars are invested at an annual induction ceremony. At that time, they are presented with a certificate and a medallion on a black and gold ribbon.

There are currently 626 members in the Johns Hopkins Society of Scholars.

The following listing of the members elected in 2015 is accompanied by a short description of their accomplishments at the time of their election.

# Robert L. Gallucci Washington, D.C.

Robert Gallucci is a Distinguished Professor in the Practice of Diplomacy at Georgetown University's Edmund A. Walsh School of Foreign Service, where he served as dean for 13 years. He left Georgetown in 2009 to become president of the John D. and Catherine T. MacArthur Foundation, a position he held until 2014. Earlier, he had spent more than two decades in government positions focused on international security. As ambassador-at-large and special envoy for the U.S. State Department, he dealt with the threats posed by the proliferation of ballistic missiles and weapons of mass destruction, and he was chief U.S. negotiator during the North Korean nuclear crisis of 1994. He also served as assistant secretary of state for political-military affairs, and as the deputy executive chairman of the United Nations Special Commission overseeing the disarmament of Iraq after the first Gulf War. Dr. Gallucci completed a postdoctoral fellowship at what is now the Foreign Policy Institute of the Johns Hopkins Paul H. Nitze School of Advanced International Studies and was a professorial lecturer at SAIS from 1973 to 1976.

# Douglas A. Jabs New York, New York

Douglas Jabs is a professor of ophthalmology and medicine, and chairman emeritus of the Department of Ophthalmology at the Icahn School of Medicine at Mount Sinai. With continuous NIH funding for nearly 30 years, he chairs the Multicenter Uveitis Treatment Trial, the Standardization of Uveitis Nomenclature Working Group, and Studies of the Ocular Complications of AIDS Research Group. Dr. Jabs is the recipient of numerous honors and a frequent speaker both nationally and internationally, and has produced 290 publications and 46 book chapters. He earned both his MD and MBA degrees at Johns Hopkins. His internship in internal medicine at New York Hospital–Cornell Medical Center was followed at Johns Hopkins by residencies in internal medicine and in ophthalmology, as well as a fellowship in rheumatology. In 1984, he joined the Johns Hopkins faculty and in 1993 was promoted to professor of ophthalmology and medicine in the School of Medicine; he also served as a professor of epidemiology at the Bloomberg School of Public Health and as director of the Division of Ocular Immunology at the Wilmer Eye Institute. He moved to Mount Sinai in 2007.

# Keith D. Lillemoe Boston, Massachusetts

Keith Lillemoe has contributed to major advances in the management of pancreatic cancer, bile duct injuries and strictures, and numerous other abdominal conditions. Since 2011, he has been surgeon-in-chief and chief of the Department of Surgery at Massachusetts General Hospital and the W. Gerald Austen Professor of Surgery at Harvard Medical School. Active in numerous surgical societies and a frequent speaker throughout the world, Dr. Lillemoe has produced 350 journal articles and 120 book chapters, has been a visiting professor more than 95 times, is editor of one of the leading surgical texts, *Surgery: Scientific Principles and Practice*, and is editor-in-chief of *Annals of Surgery*. He earned his MD in 1978 and completed his entire surgical training at Johns Hopkins, joining the faculty in 1985 and rising to the rank of professor of surgery in 1996. He was honored with the department's Faculty Teaching Award five times. He left Johns Hopkins in 2003 to become the Jay L. Grosfeld Professor and chairman of the Department of Surgery at the Indiana University School of Medicine.

# Piero Madau Santa Cruz, California

Piero Madau, Distinguished Professor of Astronomy and Astrophysics at the University of California, Santa Cruz, and director of the Next Generation Telescopes Science Institute, researches challenging and fundamental problems at the intersection of cosmology, galaxy formation, and theoretical and computational astrophysics. His work spans a large range of astronomical scales and epochs, from the present-day properties of the universe going back in time to the dawn of galaxies and the epoch of the first stars and quasars. Among the prestigious awards Dr. Madau has received for his significant and breakthrough results are the Heineman Prize for Astrophysics, the Innovative and Novel Computational Impact on Theory and Experiment DOE Award, and the Alexander von Humboldt Prize in Physical Sciences. He regularly serves on NASA mission and science advisory committees, as well as in other leadership roles in his field. Born and educated in Italy, he came to the United States in 1987 for postdoctoral work, which included a Davis Fellowship at Johns Hopkins and a position as assistant astronomer at the Space Telescope Science Institute, located on the university's Homewood campus. He then joined the Institute of Astronomy at the University of Cambridge, and moved in 2000 to UCSC.

# Santa J. Ono Cincinnati, Ohio

A highly accomplished researcher in eye disease, Santa Ono is president of the University of Cincinnati, where he also serves as a professor of pediatrics in the College of Medicine and as a professor of biology in the McMicken College of Arts and Sciences. Named the university's president in 2012, Dr. Ono has become a frequent opinion leader on higher education issues and a trailblazer in the use of social media. He has a reputation for accessibility and responsiveness to the university's wide range of constituents. He chairs Ohio Gov. John Kasich's task force focusing on the biopharmaceutical industry, and he heads the health committee of the Urban Serving Universities. Dr. Ono has received many honors and awards for his research and scholarship, is a member of several national and international honorific societies, and is a sought-after public speaker. Earlier in his career, from 1992 to 1996, he was an assistant professor of medicine at Johns Hopkins.

# Carole A. Parent Bethesda, Maryland

Carole Parent is deputy chief of the Laboratory of Cellular and Molecular Biology at the National Cancer Institute's Center for Cancer Research. She is a world-leading expert in the field of directed cell migration, having identified novel mechanisms used by cells to communicate with each other as they move in a concerted fashion toward a chemical attractant, a process that underlies fundamentally important processes occurring during embryonic development, response to infection, and cancer metastasis. After receiving her PhD at the University of Illinois at Chicago in 1992, she completed postdoctoral training in the Department of Biological Chemistry at the Johns Hopkins School of Medicine, under the direction of Peter Devreotes, the Isaac Morris and Lucille Elizabeth Hay Professor of Embryology and director of the department. She was promoted to instructor in 1996. In 2000, Dr. Parent moved to NCI, where she received tenure in 2006 and was appointed deputy chief in 2010. In 2011, she was appointed adjunct professor at the Institute for Physical Science and Technology at the University of Maryland, College Park, and in 2013 was named co-director of the NCI-UMD Partnership for Cancer Technology.

# Ramon E. Parsons New York, New York

At the Icahn School of Medicine at Mount Sinai since 2013, Ramon Parsons is the Ward-Coleman Professor in Cancer Research, chair of the Department of Oncological Sciences, and co-leader of the Cancer Mechanisms Program of the Tisch Cancer Institute, where he studies cancer signaling and biology with an emphasis on breast cancer. After earning his MD and PhD degrees at SUNY at Stony Brook, Dr. Parsons completed a fellowship at Johns Hopkins under the direction of Bert Vogelstein, the Clayton Professor of Oncology and Pathology; there, Dr. Parsons and his colleagues discovered that inactivation of DNA mismatch repair genes causes hereditary colorectal cancer. At Columbia University Medical Center, where he was the Avon Professor of Pathology and Medicine and leader of the Breast Cancer Program, Dr. Parsons' laboratory identified the PTEN tumor suppressor gene, which is inactivated in a wide variety of cancers and cancer predisposition syndromes. He has been a leader in establishing the importance of PTEN and the PI3K pathway for cancer using a combination of genetic, biochemical, human tissue, and systems biology approaches. He is a Komen Scholar and has received numerous honors and awards.

# Godfrey D. Pearlson New Haven, Connecticut

Godfrey Pearlson is a leader in using neuroimaging as a tool to address a broad array of questions regarding the neurobiology of major mental disorders, primarily psychosis and drug and alcohol abuse. He is a professor of psychiatry and neurobiology at Yale University Medical School and founding director of the Olin Neuropsychiatry Research Center at the Institute of Living/Hartford Hospital. The recipient of many awards, Dr. Pearlson is on the editorial board of several psychiatry and neuroimaging journals, and has published more than 500 peer-reviewed research articles. He is also co-founder of the annual BrainDance Competition, which aims to encourage high school and college students across New England to learn about psychiatric diseases and to develop a more tolerant and realistic perspective toward people with severe psychiatric problems. After completing medical training in England and receiving a graduate degree in philosophy at Columbia University, he came to Johns Hopkins as a resident and postdoctoral fellow in psychiatry under Paul McHugh. He later joined the faculty, becoming a professor of psychiatry and founding director of the Division of Psychiatric Neuroimaging.

# Robert Reid-Pharr New York, New York

A Distinguished and Presidential Professor of English and American Studies at the Graduate Center of the City University of New York, where he also directs the Institute for Research on the African Diaspora in the Americas and the Caribbean, Robert Reid-Pharr is a highly regarded specialist in African-American culture and a prominent scholar in the field of race and sexuality studies. Dr. Reid-Pharr has published three books: *Conjugal Union: The Body, the House, and the Black American*; *Black, Gay, Man: Essays*; and *Once You Go Black: Choice, Desire, and the Black American Intellectual*. His essays have appeared in a range of publications, and his research and writing have been supported by leading private foundations and the National Endowment for the Humanities. Before joining the Graduate Center, he was an assistant and associate professor of English at Johns Hopkins. He also has been a visiting professor at the College of William and Mary, American University of Beirut, University of Oxford, University of Oregon, and University of Chicago. He earned his PhD from Yale University and BA from the University of North Carolina at Chapel Hill.

# Elise F. Stanley Toronto, Canada

Elise Stanley heads the Cellular and Molecular Division of the Toronto Western Research Institute and has established a laboratory in synaptic transmission research. She holds the Tanenbaum Chair in Molecular Brain Science and the Canada Research Chair, and supervises the TWRI Wright Cellular Imaging Facility. Dr. Stanley has worked primarily within the field of information transfer in the nervous system, beginning with spinal cord synaptic pathways that serve the small muscles of the human hand. Among her significant research contributions is the finding that a single calcium channel could trigger the fusion of a single synaptic vesicle, which led to her prediction that the calcium channel must be physically linked to the synaptic vesicle. Initially disputed, this is now the generally accepted mechanism. After her education in England, she completed a postdoctoral fellowship and was an assistant professor in the Department of Neurology at Johns Hopkins. She moved to the National Institute of Neurological Disorders and Stroke in 1984, initially as a visiting fellow and head of the Synaptic Mechanisms Section. She has been at TWRI since 1999.

# Kathleen J. Stebe Philadelphia, Pennsylvania

Kathleen Stebe is the Richer and Elizabeth M. Goodwin Professor of Engineering and Applied Science at the University of Pennsylvania, where she also serves as deputy dean for research in the School of Engineering and Applied Science. A respected researcher, Dr. Stebe focuses on capillary phenomena, assembly at interfaces and within complex fluids, and interfacial flows, with particular emphasis on how surfactants can be used to direct stresses at interfaces and to alter drop breakup modes. Following completion of her PhD in chemical engineering at the Levich Institute and a postdoctoral year at the Université de Technologie de Compiègne, Dr. Stebe joined the Department of Chemical Engineering at Johns Hopkins, where she rose through the ranks to become a professor and department chair and received a Robert S. Pond Excellence in Teaching Award. She moved to the University of Pennsylvania in 2008. Dr. Stebe has been a fellow at the Radcliffe Institute for Advanced Studies, was named a fellow of the American Physical Society, and received the Frenkiel Award from the APS' Division of Fluid Dynamics.

# Rolf-Detlef Treede Mannheim, Germany

Rolf-Detlef Treede is a professor of neurophysiology at the Ruprecht-Karls-University Heidelberg and also managing director of the Center for Biomedicine and Medical Technology Mannheim. His wide-ranging interests in the field of pain include the mechanisms and treatment of neuropathic pain, the cortical representation of pain, peripheral nociceptive transduction mechanisms, pain memory, pain assessment by quantitative sensory testing, and clinical neurophysiology. Dr. Treede is president of the International Association for the Study of Pain, past chair of its Special Interest Group on Neuropathic Pain, and past president of its German chapter. He sits on numerous national and international committees, is on the editorial board of the journal *Der Schmerz*, and has authored or co-authored about 330 publications in journals and books. After completing his medical degree in 1981, he joined the Department of Physiology at the University Hospital Eppendorf in Hamburg, spending two years (1988 to 1990) as a visiting scientist with the Department of Neurosurgery at Johns Hopkins. From 1992 to 2007 he was a professor of neurophysiology at the Institute of Physiology and Pathophysiology of the Johannes Gutenberg University in Mainz.

# David Vlahov San Francisco, California

David Vlahov is a professor and dean of the School of Nursing at the University of California, San Francisco. He initiated the International Society for Urban Health and is an expert consultant to the World Health Organization's Urban Health Center in Kobe, Japan. Dr. Vlahov's work focuses on epidemiology, infectious diseases, substance abuse, and mental health, and his experience includes interprofessional and interdisciplinary education and research. He studied urban populations in Baltimore for more than 20 years and led epidemiological studies in Harlem and the Bronx, New York, experiences that provided a wealth of information on how to deal with racial and ethnic health disparities. He is a member of the Institute of Medicine and a fellow of the American Academy of Nursing, and he has edited three books on urban health and published more than 640 scholarly papers. After earning BSN and MS degrees at the University of Maryland, Dr. Vlahov completed his PhD in epidemiology in 1988 at what is now the Johns Hopkins Bloomberg School of Public Health, where he joined the faculty and became a professor and deputy chair of the Department of Epidemiology.

# Judith N. Wasserheit Seattle, Washington

Judith Wasserheit's development of the concept of epidemiological synergy between HIV infection and other STDs has had a major influence on HIV prevention policy and programs around the world. At the University of Washington, Dr. Wasserheit is the William H. Foege Chair of the Department of Global Health, a professor of global health and of medicine, and an adjunct professor of epidemiology. Her research has included one of the first laparoscopic studies of pelvic inflammatory disease etiology conducted in the United States, the first population-based study of the prevalence and etiologic spectrum of STDs among rural women in the Indian subcontinent, and a study on the interrelationships between STDs and contraceptive practices in other parts of the developing world. The recipient of many prestigious awards and honors, Dr. Wasserheit was the founding chief of the National Institutes of Health's STD Research Branch; director of the Centers for Disease Control and Prevention's STD Prevention Program; and director of the HIV Vaccine Trials Network, the largest global clinical trials platform evaluating preventive HIV vaccines. She became an assistant professor at the Johns Hopkins School of Medicine in 1986 and earned her MPH at the university's School of Public Health in 1989.

# Maria T. Zuber Cambridge, Massachusetts

Maria Zuber is vice president for research and the E.A. Griswold Professor of Geophysics at the Massachusetts Institute of Technology. She has served on the Presidential Commission on the Implementation of United States Space Exploration Policy and was recently appointed to the National Science Board. Dr. Zuber's research bridges planetary geophysics and the technology of space-based laser and radio systems. She has published more than 230 papers, and since 1990 has held leadership roles associated with scientific experiments or instrumentation on nine NASA missions. She remains involved with six of these missions and is principal investigator for NASA's Gravity Recovery and Interior Laboratory mission, an effort to map the moon's gravitational field. Dr. Zuber has received numerous professional honors, and has been singled out in the popular press as one of the 50 most important women in science and as one of America's best leaders. Earlier in her career, Dr. Zuber was a faculty member at Johns Hopkins in the Krieger School of Arts and Sciences' Department of Earth and Planetary Sciences.

# **HONORARY DEGREES**

# **Marin Alsop**

When the MacArthur Foundation awarded Marin Alsop one of its coveted fellowships in 2005, it declared that she is one of "the most accomplished conductors working today." Alsop has been the music director of the Baltimore Symphony Orchestra since 2007, and her contract was recently extended until 2021.

Her arrival in Baltimore ushered in a golden age of collaboration between the BSO and the university's Peabody Conservatory, where Alsop is a distinguished visiting artist. Under Alsop's guidance, several innovative opportunities have been created for Peabody students to be immersed in the day-to-day workings of the BSO—a privilege rarely extended to conservatory students. Peabody and the BSO are also involved in several community outreach efforts, including the BSO's groundbreaking OrchKids program, which provides free music education, instruments, and performance and mentorship opportunities to more than 850 children in Baltimore City. Alsop's goal is to reach at least 10,000 young people over the next decade.

Alsop is known for her extraordinary communication skills, both her ability to bring out the best from the musicians she leads and her knack for connecting with audiences. In Baltimore, her innovative "Off the Cuff" series gives listeners a behind-the-scenes, in-depth look at major works for orchestra and is the BSO's fastest growing series.

Before joining the BSO, Alsop was music director of the Colorado Symphony and principal conductor of the Bournemouth Symphony Orchestra (UK). She continues in her role as music director of the Cabrillo Festival of Contemporary Music, a post she has held for the past 25 years. She is also music director of the São Paulo Symphony Orchestra in Brazil, where her contract has been renewed through 2019.

At a time when most young musicians, composers, and conductors have limited opportunities to study with major symphonies, you are opening doors. Under your leadership, the Baltimore Symphony Orchestra and our own Peabody Conservatory have forged several successful collaborations.

Your commitment to education and community building mirrors our own, and together we are reaching out to the youngest talent in Baltimore through the OrchKids program, just one of your efforts to make the BSO more approachable than ever.

Marin Alsop, for your steadfast belief in mentoring your future colleagues, giving them the confidence and knowledge they need to perform at the highest level, the Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, honoris causa.

# Edwin E. Catmull

Walt Disney and Pixar Animation Studios President Ed Catmull is a groundbreaking digital animator who has mastered the art of creative collaboration.

A Pixar co-founder, Catmull is the moviemaking computer scientist responsible for the technical innovation driving blockbusters like *Toy Story, Frozen, Titanic, Apollo 13, The Lord of the Rings* trilogy, and the *Harry Potter* and *Hunger Games* series.

Catmull grew up watching Walt Disney cartoons on television and dreamed of one day becoming a Disney animator himself. When he realized he had no traditional ink-and-paper talent, he turned to computers, taking animation in a whole new direction. As a graduate student at the University of Utah's computer graphics labs in the early 1970s, Catmull pioneered the animation of curved surfaces, producing the first animated film of a human hand. That film laid the groundwork for his life's work and eventually for RenderMan, software co-developed by Catmull that has been used in some of Hollywood's biggest hits.

*Star Wars* creator George Lucas brought Catmull into show business, appointing him vice president of Lucasfilm Ltd.'s Industrial Light & Magic division, where he served from 1979 to 1985. When Apple co-founder Steve Jobs bought Lucasfilm's digital operation, Catmull became chief technical officer of the new Pixar Animation Studios. Walt Disney Co. bought Pixar in 2006, putting Catmull in charge of the combined company's animation efforts.

Catmull has won five Academy Awards and is a member of the National Academy of Engineering. His first book, *Creativity, Inc.: Overcoming the Unseen Forces That Stand in the Way of True Inspiration*, became a *New York Times* best-seller and was widely praised as one of the best business books of 2014.

Becoming a Disney animator was your childhood dream. When success in the traditional form of the craft proved elusive, you became an innovator in the fledgling field of computer animation. Your revolutionary software led Hollywood to infinity and beyond in 1995 with Toy Story, the world's first fully computer-animated feature film.

From Buzz and Woody to Anna and Elsa, your creativity and ingenuity brought to life a new generation of Disney-Pixar characters, along with some well-known inhabitants of Middle Earth, Hogwarts, and a galaxy far, far away.

Edwin E. Catmull, for your groundbreaking technical achievements and your unparalleled leadership of the creative team at Walt Disney and Pixar Animation Studios, the Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, honoris causa.

### Elijah E. Cummings

Born and raised in Baltimore, Congressman Elijah E. Cummings has dedicated his career to improving lives in the city and across the nation.

His public service began in the Maryland House of Delegates, where he served for 14 years and became the first African-American in Maryland to be named speaker pro tem. In 1996, he was elected to the U.S. House of Representatives for Maryland's 7th District, which includes much of Baltimore City. He was re-elected to serve a 10th term in 2014.

As the ranking member of the Committee on Oversight and Government Reform, Cummings looks for ways to prevent waste, fraud, and abuse to ensure government programs meet the needs of the American people. Johns Hopkins and Cummings are frequent collaborators on issues reflecting our shared values, including prescription affordability and the promotion of health equity in the American population. Cummings is also a supporter of our Urban Health Residency Program, an initiative to train primary care physicians to be leaders on the medical and social issues facing underserved inner-city residents.

Securing a better future for the next generation of Marylanders is a hallmark of Cummings' tenure in office. He is also an outspoken advocate for the rights of people facing foreclosure, calling for a congressional investigation into causes and potential solutions to the crisis; he dedicates his own staff resources to seminars for at-risk homeowners, matching them with lenders to work out loan modifications and prevent foreclosure.

Cummings is the 2014–15 chairman of the Gwendolyn S. and Colbert I. King Endowed Chair in Public Policy lecture series at Howard University. He is also a frequent and beloved speaker here at Johns Hopkins, where his stirring lectures always bring audiences to their feet.

You possess a transcendent ability to galvanize your fellow elected officials in the U.S. House of Representatives in service to our nation and your beloved hometown, Baltimore.

Your concern for the health and well-being of your constituents mirrors our own. Access to high-quality health care and education, clean air and water, a stronger economy—you have fought for all these issues and more. We are particularly proud to call you a collaborator in the effort to maintain affordable pricing on lifesaving drugs and to eliminate health disparities and inequality in the American population.

*Elijah E. Cummings, for your leadership, vision, and persistence in your commitment to Baltimoreans and to all Americans, the Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, honoris causa.* 

# Anthony W. Deering

Anthony W. Deering, an emeritus member of the Johns Hopkins University board of trustees, is one of the Baltimore area's most highly regarded entrepreneurs and philanthropists.

Deering began his career in 1972 as a real estate executive with the Baltimore-based Rouse Company, and would serve in various capacities over the years, including chairman, president, and CEO. Under his leadership, the Rouse Company operated under the belief that improving the quality of life in the communities it developed was an essential part of doing business. In that spirit, when the company was sold in 2004, Deering designated \$25 million to the Rouse Company Foundation, quadrupling the charity in size and enabling its ongoing support of local housing and job training initiatives.

Deering and his wife, Lynn, are devoted to improving Baltimore. They created the Charlesmead Foundation decades ago to support many Rouse Company Foundation initiatives in the city, while also underwriting programming at Center Stage, the Baltimore Museum of Art, and the Johns Hopkins Berman Institute of Bioethics.

Deering is a member of the Johns Hopkins Medicine board of trustees, and is also a former director on the board of East Baltimore Development Inc. As a member of the university's board of trustees, Deering helped to solidify the university's role as an anchor institution, encouraging dialogue with the communities and businesses surrounding the Homewood campus and in East Baltimore. He initiated a major enhancement to Hopkins' Live Near Your Work program to encourage and support employees in acquiring housing around Hopkins facilities.

Deering is currently chairman of Exeter Capital LLC, a private investment firm. He is a director at Under Armour and Brixmor Realty Trust, and is a lead independent director of the T. Rowe Price mutual funds. Deering is also a member of the Deutsche Bank Americas Regional Client Advisory Board and a former governor of the Investment Company Institute.

You made your mark in business by making major investments in real estate development, and you give the same time, energy, intelligence, and leadership to making the City of Baltimore a better place to live, work, and play.

As CEO of the Rouse Company, you made multimillion dollar deals in retail and residential development across the United States. When the company was sold, you designated millions to the Rouse Company Foundation, assuring that the company's success would become a living legacy of wealth for the Baltimore community.

Anthony W. Deering, for possessing both business acumen and the heart of a philanthropist, the Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, honoris causa.

# Kathryn "Lynn" R. Deering

An abiding sense of humanity drives Lynn Deering to be both a champion of bioethics and a patron of the arts.

A former nurse and hospice volunteer, Deering cared for patients and their families as they grappled with a myriad of health and other concerns. She was a member of the AIDS Service Advisory Board and volunteered on the inpatient unit for more than 10 years. She has said that her life's work led her to question how medical resources are used, and how the health care community approaches end-of-life issues.

Deering's personal connections with patients inform her work with the Johns Hopkins Berman Institute of Bioethics, where she serves as development chair and as a member of the national advisory board. When the Berman Institute established its own building in 2011, it was named Deering Hall in honor of her dedication to its mission to address the key ethical issues in science, clinical care, and public health. Deering and her husband, Anthony, were instrumental in efforts to obtain a building in East Baltimore, supporting the endeavor with their time, resources, and leadership.

In addition to her passion for patients and their families, Deering is a firm believer in the power of creativity to bring joy to our lives. For more than 20 years, she has served on the board of Maryland Citizens for the Arts, which works to increase support of the arts and the role they play in Maryland's cultural and economic vitality. She has served as a trustee on the board of Center Stage in Baltimore for 30 years, including four years as president, and is a past member of the National Council for the American Theatre. Deering is also a trustee of the Baltimore Museum of Art and president of the Charlesmead Foundation, a charitable organization that emphasizes arts, education, and community development.

A patron of the arts and a health care advocate, you are keenly aware of life's joy and pain. You dedicate significant time and energy as a supporter of creativity through groups like Center Stage and the Baltimore Museum of Art. At the same time, you have made it your life's work to help patients, families, and caregivers face the quandaries of end-of-life care, experiences that make your involvement essential to the work we do at the Johns Hopkins Berman Institute of Bioethics.

Kathryn R. Deering, for your unwavering devotion to both patient care and creative advocacy, and your understanding of the power of people and ideas, the Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, honoris causa.

# Anthony S. Fauci

Anthony S. Fauci has for decades helped safeguard the world against threats like HIV/AIDS, the Ebola virus, pandemic influenza, and measles.

In its fight against contagious illnesses, the global health community relies on Fauci's leadership as the director of the National Institute of Allergy and Infectious Diseases, a role he has held since 1984. Fauci oversees an agency dedicated to the prevention, diagnosis, and treatment of illnesses caused by potential agents of bioterrorism, autoimmune disorders, asthma, and allergies.

Fauci became such a highly regarded leader by first making several breakthroughs at the laboratory bench. He brought the United States to the front lines of the global fight against HIV/AIDS with his own research, which has led to greater understanding of how the virus destroys a body's defenses and has brought us closer to developing a vaccine. Millions of lives in the developing world have been saved thanks to Fauci, who was one of the principal architects of the President's Emergency Plan for AIDS Relief, known as PEPFAR.

He is also the longtime chief of the NIAID Laboratory of Immunoregulation, whose work is built on Fauci's basic scientific observations about the human immune system. He is highly regarded for his seminal work in the field of rheumatology, which led to the development of lifesaving therapies for several formerly fatal inflammatory and immune-mediated diseases.

Fauci has received numerous prestigious honors, including the Presidential Medal of Freedom, the National Medal of Science, and the Lasker Award. He is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, and many other professional societies. A prolific author, co-author, or editor of more than 1,200 scientific publications, Fauci is one of the most frequently cited researchers in the world.

Through your leadership as the longtime director of the National Institute of Allergy and Infectious Diseases, you have bolstered public health preparedness on a global scale. During times of crisis, such as the recent outbreaks of the Ebola and measles viruses, you have once again emerged as our voice of reason and reassurance.

Your steady guidance is informed by your breakthroughs in the laboratory, including your landmark work in HIV research. As the driving force behind the President's Emergency Plan for AIDS Relief, you have helped save millions of lives in the developing world.

Anthony S. Fauci, for your commitment to making the world a healthier place, the Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, honoris causa.

#### **Leon Fleisher**

As a recipient of the Kennedy Center Honors in 2007, pianist Leon Fleisher was recognized as a "consummate musician whose career is a testament to the life-affirming power of art."

Fleisher enjoyed international renown, becoming the first American to win the prestigious Queen Elisabeth of Belgium International Piano Competition in Brussels in 1952. He subsequently enjoyed a prolific recording career, most notably with George Szell and the Cleveland Orchestra, recordings recognized as among the great collaborations in the concerto repertoire. In 1965, he began to suffer symptoms of a debilitating condition of his right hand, later diagnosed as focal dystonia. After a period of great despair, Fleisher channeled his creativity in new directions, mastering the piano repertoire for left hand and initiating a career in conducting.

In the mid-'90s, with the combined therapies of Botox injections and Rolfing, he regained sufficient use of his right hand, leading to an extraordinary career renaissance. In 2003, Fleisher joined forces with his wife, pianist Katherine Jacobson, to form the Fleisher-Jacobson Duo, giving concerts worldwide and recording for Sony Classical. Fleisher released the album *Two Hands* in 2004, which went on to hold a Top 5 Billboard Chart position and was hailed by critics as one of the best recordings of the year. *Two Hands* is also the title of the Oscar-nominated documentary film about his amazing life story. In 2013, Sony Classical issued a 23-CD box set of his entire recorded output, and in 2014, Fleisher released his first solo CD in a decade, the Grammy-nominated *All the Things You Are*.

In 2006, in Paris, Fleisher received the honor of Commander of the Order of Arts and Letters from the minister of culture of the French government.

At age 86, in addition to his teaching at Peabody, Fleisher continues with an international schedule of master classes, performances, and orchestral guest conducting.

You made your mother's wish come true by becoming one of the world's great concert pianists. Calling it an affinity, not a talent, you took to the piano at a young age, making your Carnegie Hall debut at 16. From there, you graced stages around the world.

In your prime, an affliction robbed you of the use of your right hand. But you were not held back—you evolved, mastering pieces for the left hand, recording, performing, conducting, embracing your role as teacher at our own Peabody Conservatory, and finally triumphing over focal dystonia.

Leon Fleisher, for your creativity, ingenuity, persistence, and passion, the Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, honoris causa.

# William E. Kirwan

William E. "Brit" Kirwan is a visionary leader in the world of academia and a guiding force on national issues including diversity on campus, college access and affordability, academic innovation, and higher education's economic impact.

Currently serving his 13th year as chancellor of the University System of Maryland, Kirwan is capping a brilliant 50-year career. He established his connection to the University of Maryland as a young professor in 1964, moving through the ranks over the years from assistant professor of the Department of Mathematics to president of the university. Kirwan left Maryland in 1998 and became president of the Ohio State University, a position he held for four years. He then returned to Maryland in August 2002 to serve as chancellor.

Thanks to Kirwan's leadership, the University System of Maryland stands as a national model for public higher education systems. Highlights of his legacy include increasing college completion rates for low-income and underrepresented student populations, transforming teaching and learning to enhance student success, working to maintain affordable tuition, and leveraging resources to help drive the state's economic competitiveness. Among his many honors is election to the American Academy of Arts and Sciences.

Johns Hopkins and the University System of Maryland have partnered on several innovative collaborations during Kirwan's tenure, reflecting our common missions of discovery, education, and betterment of the communities around us. These include a \$30 million Maryland Advanced Research Computing Center at the Johns Hopkins Bayview Medical Center, and the Extreme Science Internships program, which places high-achieving science and engineering students from Morgan State University in research internships at Johns Hopkins and other universities.

#### Fear the turtle? Don't believe the hype: The storied rivalry between our universities begins and ends on the lacrosse field.

As the longtime chancellor of the University System of Maryland, you have been a tremendous partner in advancing the role of higher education in Maryland. Your understanding of academia's innovative role in economic development has led to groundbreaking collaborations between Johns Hopkins, the University of Maryland, and the business community. Thanks to you, our students, faculty, and the entire state are thriving on the world stage.

William E. Kirwan, for your leadership in the world of higher education and your unparalleled collaborative spirit, the Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, honoris causa.

# THE UNIVERSITY MACE

The university mace, carried by the chief marshal, was first used at the 1954 Commemoration Day Ceremony. Eight symbols are handwrought in sterling silver on an ebony staff representing our cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

# The Presidential Insignia

University President Ronald J. Daniels is wearing the presidential insignia signifying the authority vested in the president by the board of trustees. It is a chain of sterling silver links worn around the neck. Portraits of the Johns Hopkins University presidents are engraved on the faces of the links. On the reverse, the names and dates of office of each president are engraved. Blank links for future use are included. The university seal completes the design.

# ACADEMIC GARB

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round but has changed to the varieties we see today.

The gown varies for the respective degrees. The bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The master's gown is designed to be open with the arms placed through the slits at the elbows of the sleeves. The doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper sleeve. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The master's hood is three and a half feet long. The doctor's hood is four feet long, of fuller shape, and rounded at the base. The hood is bordered with velvet, the color of which indicates the field of study in which the master's or doctoral degree was earned.

Dark blue — Philosophy Light blue — Education Peacock blue — Public Policy Green — Medicine Salmon pink — Public Health Orange — Engineering Gold-yellow — Science White — Arts and Letters Pink — Music Purple — Law Apricot — Nursing Tan — Business Dark brown — Fine Arts The silk lining of the hood represents the institution that granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include the following.

Brown University - brown, red California Institute of Technology - orange, white Columbia University — light blue, white Cornell University - red, white Duke University — blue Harvard University - crimson Howard University - blue, red Indiana University - red, white Johns Hopkins University - black, old gold Massachusetts Institute of Technology — cardinal red, gray New York University — purple Northeastern University — red, black Northwestern University - purple, white Ohio State University - red, gray Princeton University - orange, black Rice University — blue, gray Rutgers University - red

Stanford University - cardinal Temple University - white, red University of California - gold, blue University of Chicago - maroon University of Colorado - gold, gray University of Florida — orange, royal blue University of Maryland - red University of Michigan — gold, blue University of North Carolina — light blue, white University of Pennsylvania — red, blue University of Pittsburgh — blue, gold University of Rochester — blue, gold University of Virginia - orange, blue University of Wisconsin - bright red Vanderbilt University — gold, black Washington University, St. Louis - red, green Yale University — dark blue

# THE UNIVERSITY MOTTO

Veritas vos liberabit. The truth shall make you free. –St. John 8:32

# Truth Guide Our University The Spirit of JHu

Adaptation of the Johns Hopkins University Ode Erik Meyer BM '02; MM '04, Peabody

> Truth guide our university, and from all error keep us free. Let knowledge grow from more to more, and may our scholars' spirits soar, Their souls for light forever burn, send forth thy fire, that they may learn; And let their faithful teaching be: the truth alone can make us free. May wisdom be our nobler aim, and learning set our hearts aflame, And let our watchword ever be: the truth for aye shall keep us free!

The Schools of Arts and Sciences, Engineering, Nursing, Medicine and The Peabody Conservatory of Music

# LOUIS SUDLER PRIZE IN THE ARTS

For excellence in the creative arts.

# Awarded to

Anthony Michael Dillon Lee, The Whiting School of Engineering

# PRESIDENT'S COMMENDATION FOR ACHIEVEMENT IN THE ARTS

For service to the arts. Awarded to Heidi Elizabeth Bauer, Peabody Conservatory Danielle Yukiko Sullivan, The Zanvyl Krieger School of Arts and Sciences

# Homewood Student Affairs Awards

#### ALEXANDER K. BARTON CUP

Presented annually under the auspices of Omicron Delta Kappa to a member of the University who best exemplifies Mr. Barton's strong character, high ideals and effective moral leadership. Awarded to Samuel Derege Kebede

# THE CHRISTOPHER B. ELSER PRIZES

The Christopher B. Elser Prizes were established by the Elser family and their friends as a memorial to the life of Christopher B. Elser, a member of the JHU Class of 2005. It is presented to a junior or senior reflecting the following attributes: demonstration of active participation and commitment to community service, a record of active participation and leadership in campus life and campus activities, a demonstrated passion for athletics and academic achievement. Awarded to George Bugarinovic Amanda Daniella Garcia

#### THE BELLE AND HERMAN HAMMERMAN AWARD

Established by Belle G. Hammerman in honor of her son, Judge Robert I. H. Hammerman, Class of 1950, this award is presented annually to the senior entering law school who combines academic excellence with outstanding qualities of leadership. Awarded to

Karen Amanda Reitman

#### THE CHRISTOPHER J. PINTO MEMORIAL AWARD

Established by alumni of the Tau Epsilon Phi Fraternity, members of the Class of 1984, and friends of the Pinto family, this award is presented to a senior reflecting the academic, leadership abilities and strong moral character of Chris Pinto, a member of the Class of 1984. Awarded to *Lara M. Gatehouse* 

# FLORENCE "MEG" LONG WALSH SECOND DECADE SOCIETY LEADERSHIP AWARD

Originally established by the Second Decade Society (SDS) in 1995, this leadership award was renamed in 2000 in memory of Florence "Meg" Long Walsh, an SDS member known for her independent thinking and leadership. Given to a graduating senior who has displayed outstanding leadership in raising the public profile of the University, the award affords one year of postgraduate study abroad to further test and develop his/her knowledge and leadership skills in a broader international context. Awarded to Brittany Ayana Thomas

# THE DEAN OF STUDENT LIFE ACHIEVEMENT AWARD

The Dean of Student Life Achievement Award. which was established in 2003, recognizes Hopkins undergraduate students who have made significant contributions to the Hopkins community. The award recognizes students who have taken strides to make a difference at Hopkins through a sustained effort of outstanding leadership and service to Hopkins and/or the surrounding community. Awarded to Janice Maame Bonsu Andrew Paul Ceruzzi Maysa Mahmoud Elsheikh Sarah Mary Jabour Thomas Joseph Laughlin Frances Ford Loeb Paul James Markakis Jahan G. Mirchandani Simon Leo Osipov Mary Catherine Susan Wallace

# Homewood Arts Program Awards

#### THE HOMEWOOD ARTS CERTIFICATE

Awarded to seniors who have completed co-curricular requirements and an original final project in one of five disciplines: dance, digital media, fine arts, music, or theater. Awarded to Alexander George Atanassov, Dance Ilana Danielle Bookner, Music Maxwell John Bowens, Film Letitia Kai-Ling Chim,

Dance & Music Alice Huang, Music Pamela Tolf Hugi, Theater Nathaniel C. Kato, Music Tiffany Ko, Dance Morris Haim Kraicer, Theater Anthony Michael Dillon Lee, Film Sebastian W. Lim, Dance Andrea Hope Massaro, Film Grace Julia Mumby, Theater Upas Narayan, Music Matthew Brett Small, Theater Danielle Yukiko Sullivan, Dance Daniel Affelder Weissglass, Theater Daniel Eduardo Zatarain, Dance

#### THE EUGENE LEAKE AWARD

For outstanding achievement in the Homewood Art Workshops. Awarded to Sofia Leandro Arruda Alessandra Felloni Dae Jin Kim Gyudae Kim Jei Wook Moon Rachel Hannah Riegelhaupt

# Awards -

# Greek Life Awards

GREEK LIFE SENIOR LEADERSHIP AND CAMPUS INVOLVEMENT AWARD

Awarded to Munan Xu, Phi Delta Theta Aleksandra Igorevna Olekhnovich, Phi Mu

GREEK LIFE SENIOR ACADEMIC EXCELLENCE AWARD Awarded to Andrew Raab Griswold, Sigma Phi Epsilon Jordana Gertie Meisel, Pi Beta Phi

INTER-FRATERNITY COUNCIL GREEK MAN OF THE YEAR

Thomas Joseph Laughlin, Beta Theta Pi

PANHELLENIC ASSOCIATION GREEK WOMAN OF THE YEAR Awarded to *Frances Ann Zappone, Phi Mu* 

# Athletic Awards

# THE BLUE JAYS UNLIMITED AWARD

Given to the Johns Hopkins varsity athlete who most exemplifies the spirit of Blue Jays Unlimited by demonstrating team spirit and leadership, promoting team unity and morale and enhancing the athletic experience of his/her teammates. Awarded to *Frances Ford Loeb* 

#### THE CATHERINE P. CRAMER AWARD

Presented annually to the female student who has contributed most to athletics at the University. Awarded to *Ana Katerina Bogdanovski* 

THE LARRY GOLDFARB AWARD

Presented to a senior for outstanding service to the Hopkins athletic program. Awarded to *Ryan Michael Poehner* 

THE HOWARD-SHRIVER AWARD

Presented to the senior who has demonstrated outstanding achievement in both academics and athletics while at The Johns Hopkins University. Awarded to *Michael Andrew Longo* 

# THE C. GARDNER MALLONEE AWARD

Presented annually to the male student who has contributed most to athletics at the University. Awarded to *Paul Robert Bewak* 

THE ROBERT H. SCOTT AWARD

Presented to the senior who has demonstrated excellence in athletics, scholarship and extra-curricular participation. Awarded to *George Bugarinovic* 

# Office of Multicultural Affairs Awards

THE OWENS, HALL, AND BILGRAVE AWARD This award recognizes the student who demonstrated

significant involvement in undergraduate student activities. Awarded to *Amanda Daniella Garcia* 

THE CHESTER WICKWIRE DIVERSITY AWARD

This award distinguishes the undergraduate student of any race or ethnic background who promotes multicultural harmony on the Homewood Campus. Awarded to *Tierra Rochelle Langley* 

# MULTICULTURAL AFFAIRS HONORS PROGRAM OUTSTANDING SERVICE AWARD

This award recognizes the multicultural student who demonstrates exemplary service in the Hopkins and Baltimore community. The award recipient is one who contributes to these communities by leading, volunteering, or contributing to other service organizations. Awarded to

Maysa Mahmoud Elsheikh

# Student Government Association Awards

#### STUDENT EXCELLENCE AWARD FOR LEADERSHIP AND SERVICE

Awarded annually by the Student Government's SEALS Committee to undergraduates in recognition of meritorious and outstanding contributions to student activities.

Awarded to Alexander Jordan Sivitskis Nikolas Antonios Kotoulas

# Class of 2015 Awards

# GILMAN CUP

Awarded by the Senior Class in recognition of outstanding contributions to the Homewood community by a Student Affairs staff member. Awarded to *Gladys Burrell, Dining Programs, Fresh Food Café* 

#### GOLD CUP

Awarded by the Senior Class in recognition of outstanding contributions to the Homewood community by a Student Affairs faculty member.

Awarded to Robert Turning

#### THE HOMEWOOD AWARD

Awarded annually to an organization for outstanding service to students, student life and the University. Awarded to *A Place to Talk (APTT)* 

#### HOMEWOOD CUP

Awarded by the Senior Class in recognition of outstanding contributions to the Homewood community by an administrative or support staff member who goes above and beyond their day-to-day responsibilities to assist students.

#### Awarded to

Ami Cox, Woodrow Wilson Undergraduate Research Fellowship Program — Krieger School of Arts & Sciences

# THE OLD GOLD AND SABLE AWARD

Awarded by the Senior Class in recognition of outstanding contributions to the Homewood community by the recipients during their tenure at The Johns Hopkins University. Awarded to Dr. Susan Boswell, Former Dean of Student Life

# **Teaching Awards**

THE JOHNS HOPKINS ALUMNI ASSOCIATION EXCELLENCE IN TEACHING AWARD in The G.W.C. Whiting School of Engineering for 2015.

Awarded to Nathan Scott

THE JOHNS HOPKINS ALUMNI ASSOCIATION EXCELLENCE IN TEACHING AWARD in The Zanvyl Krieger School of Arts and Sciences for 2015.

Awarded to Jonathan Flombaum

# PROFESSOR JOEL DEAN EXCELLENCE IN TEACHING AWARD

Awarded annually to graduate students or faculty members who demonstrate an intense devotion to teaching and a talent for making computer science more understandable. Awarded to

Zachary E. Palmer, PhD

PROFESSOR JOEL DEAN AWARD FOR EXCELLENCE IN TEACHING Awarded annually to one or multiple teaching assistants or faculty members who demonstrate an intense devotion to teaching and a talent for making mathematics more understandable. This award is given based on a review of recommendations from students and faculty. Awarded to Shangsi Wang

THE GEORGE E. OWEN TEACHING AWARD Given annually for outstanding teaching and devotion to undergraduates, this award was established by the 1982 Student Council to honor George E. Owen, who was dean of the Homewood Faculties. Awarded to Dr. Carolyn Fitch, Biophysics The Zanvyl Krieger School of Arts and Sciences and The G.W.C. Whiting School of Engineering

#### AMERICAN SOCIETY OF MECHANICAL ENGINEERS AWARD

For outstanding effort and accomplishment on behalf of the JHU ASME student chapter. Awarded to

Jonathan S. Ung

# APPLIED MATHEMATICS AND STATISTICS ACHIEVEMENT AWARD Awarded to

Kasidet Hiranniramol Venetia Aikaterini Karamitsou Sherwin R. Lott Marni Jordyn Wasserman

# APPLIED MATHEMATICS AND STATISTICS MATHEMATICAL MODELING COMPETITION PRIZE

This prize is given to the Hopkins team submitting the best solution in the Consortium for Mathematics and Its Applications' Annual International Mathematical Modeling Competition.

## Awarded to

Ilana Danielle Bookner Kasidet Hiranniramol Marni Jordyn Wasserman Lingyi Zhang Mark Zimmermann

## THE NADDOR PRIZE

The Naddor Prize is awarded to a non-senior undergraduate for significant achievement in departmentally related academic and extracurricular activities. It is named in honor of the late Professor Eliezer Naddor, the first recipient of a PhD in operations research in the United States and a longtime faculty member in the department. Awarded to Mark Zimmermann

# ROBERTO R. ARELLANO AWARD

For excellence in writing by a Writing Seminars undergraduate. Awarded to *Ian Hunter McMurray* 

# JAMES F. BELL AWARD

For outstanding undergraduate research and scholarly achievement in Mechanical Engineering. Awarded to Ned Whitworth Samson Martha Francis Whiting Ian Michael Wilkes

# BIOMEDICAL ENGINEERING DISTINGUISHED SERVICE AWARD

This award is presented to Biomedical Engineering students who have demonstrated outstanding service to the academic community through their work with the Biomedical Engineering Society (BMES) or in the classroom.

#### Awarded to

Anvesh Annadanam (2015, 2013) Haley Huang Burak Arda Ozilgen Melissa Kishore Sajnani (2013)

# Awards -

#### BIOMEDICAL ENGINEERING RESEARCH DAY AWARD

This award is given to the top presentations at the annual Undergraduate Research Day event. Awarded to

Austin Jordan (2nd 2014) Joshua Temple (1st 2014)

#### DETLEV W. BRONK AWARD

For outstanding scholarship in Biophysics. Awarded to *Rachel Ann Wolinsky* 

#### LUCIEN BRUSH AWARD FOR EXCELLENCE IN ENVIRONMENTAL ENGINEERING

The Lucien Brush Award for Excellence in Environmental Engineering is given annually for outstanding achievement in environmental engineering by a graduating senior. The award was established in memory of Professor Lucien M. Brush Jr., a faculty member who was a major part of the substance and spirit of the department and of the university for 25 years. Awarded to Andrew Bobesink Michael Gao

# THE CHAFFEE WRITING PRIZE

Recognizing the performance and promise of one or more Writing Seminars undergraduates. Awarded to *Wiebke Blaszcyk Ellen Maxine Waddell* 

#### CIVIL ENGINEERING ACHIEVEMENT AWARD

For outstanding achievement by a senior in the Department of Civil Engineering. Awarded to John Francis Boutillier

#### CIVIL ENGINEERING FACULTY RECOGNITION AWARD

For academic excellence and community leadership by a student in Civil Engineering. Awarded to *Shizza Fatima* 

# THE EXCELLENCE IN COGNITIVE SCIENCE AWARD

Awarded annually to a graduating Cognitive Science major for academic excellence and outstanding accomplishment in research. Awarded to Jorge Aurelio Menendez

JAMES S. COLEMAN AWARD This award, established in 1994 by the Department of Sociology, honors Dr. James S. Coleman, the first chair of the department. The award is for outstanding academic achievement by a senior majoring in sociology. Awarded to *Georges-Aurelien Emmanuel Quist* 

Stephen David Wong

# COMPUTER SCIENCE CS+X AWARD

To a senior Computer Science major for outstanding achievement in combining diverse studies with computer science. Awarded to Jade Huang Upas Narayan Jose Ulises Nino Rivera Ian Michael Wilkes

#### COMPUTER SCIENCE OUTSTANDING COURSE ASSISTANT AWARD

To a student for outstanding effort and skill in assisting with the teaching of courses. Awarded to *Katie Marie Calabro* 

## COMPUTER SCIENCE OUTSTANDING SENIOR AWARD

To a senior Computer Science major for academic excellence, leadership, and service in the Computer Science Department. Awarded to *Yvonne Jiang Carlo Orlando Olcese* 

#### THE CHARLES A. CONKLIN AWARD

Presented to outstanding Electrical and Computer Engineering seniors to recognize their academic achievements. Awarded to Anthony Joseph Pergola, Electrical Engineering Jason Daniel Gallagher, Engineering

THE CHRISTIAN DELACAMPAGNE AWARD For the best French Senior Thesis. Awarded to *Ian Mitra McLane* 

#### THE STEPHEN DIXON LITERARY PRIZE

A yearly literary prize will be given in the name of our distinguished colleague, Stephen Dixon, and awarded to a graduating senior whose work has demonstrated distinctive stylistic flair in keeping with the high mark established by Professor Dixon's stories and novels. Awarded to

Pembroke Nash Jenkins

#### FACULTY AWARD FOR SERVICE AND ACADEMIC ACHIEVEMENT IN DOGEE

The Faculty Award for Service and Academic Achievement in DoGEE is given to seniors for outstanding service and academic achievement in the Department of Geography and Environmental Engineering. Awarded to Joshua Barza Celine Cua

# SARAH K. DOSHNA UNDERGRADUATE RESEARCH AWARD

This award is given for demonstrated contributions to research in Chemical and Biomolecular Engineering. The award is named in memory of former undergraduate student Sarah K. Doshna. Awarded to *Weitong Chen* 

# ELECTRICAL AND COMPUTER ENGINEERING STUDENT INVOLVEMENT AWARD

This award recognizes significant achievement by a graduating senior for academic excellence, leadership, and service in the Department of Electrical and Computer Engineering. Awarded to *Troy Everett Sarpen* 

#### ENGLISH SENIOR ESSAY AWARD

Awarded each year for the best essay by a senior English major. Awarded to *Cecilia M. Mancuso* 

# FOREIGN LANGUAGE OUTSTANDING SENIOR AWARD

Presented to a senior studying a foreign language in the Center for Language Education to recognize their academic excellence and outstanding achievement. Awarded to *Misa Marie Baum* 

#### ROBERT GEORGE GERSTMYER AWARD

For outstanding undergraduate achievement in Mechanical Engineering. Awarded to Bailey Grace Hannon Tucker Gordon Kearney Ned Whitworth Samson

# G. STANLEY HALL PRIZE

For outstanding achievement by an undergraduate in Psychology. Awarded to *Muhammad A. Hamza Frances Ford Loeb* 

# MAX HOCHSCHILD FUND

The prize is awarded annually to the undergraduate student in Economics who has shown great promise and proficiency in this field. Awarded to *Molly Elizabeth McGlone* 

# JACOB H. HOLLANDER PRIZE

For excellence in writing by a Writing Seminars undergraduate. Awarded to *William Homer Mason* 

# THE THREE ARTS CLUB OF

HOMELAND AWARD For excellence in writing by a Writing Seminars undergraduate. Awarded to *Kathleen Pierce Naymon* 

#### WILLIAM H. HUGGINS AWARD

For outstanding scholarship and service by a senior in the Electrical and Computer Engineering Department. Awarded to

Chad Thomas Howard, Electrical Engineering Ryan Gregory Cropp, Computer Engineering

#### JOSEPH L. KATZ AWARD

Presented to Chemical and Biomolecular Engineering seniors for academic excellence in the Chemical and Biomolecular Engineering Senior Lab course. Awarded to Anne Marie Hosler Jun Woo Jeon Megan Rose Mahoney

#### DONALD E. KERR MEMORIAL AWARD

To the outstanding undergraduate major in Physics and Astronomy. Awarded to *Kelly Lampayan Georges Obied* 

# DANNY LEE AWARD

For outstanding undergraduate research in biomedical sciences. Awarded to *Oscar Eduardo Reyes Gaido* 

#### THE RICHARD A. MACKSEY AWARD

Given to the graduating senior, a member of Phi Beta Kappa, who best represents a combination of academic excellence and educational breadth. Awarded to *Gabriel Demeter Denis* 

#### MATERIALS SCIENCE AND ENGINEERING ACHIEVEMENT AWARD

For outstanding academic achievement by a graduating senior in Materials Science and Engineering. Awarded to *Letitia Kai-Ling Chim* 

# WILLIAM D. MCELROY AWARD

For meritorious research conducted by an undergraduate in the biological sciences. Awarded to *Peter Nikolaevich Kalugin* 

# MECHANICAL ENGINEERING SPECIAL ACHIEVEMENT AWARD

For outstanding leadership and accomplishment with the JHU Baja SAE team. Awarded to *Nate Schambach* 

# EMILY AND THOMAS MEREN SCHOLAR AWARD

Established in 1998 in support of undergraduate students pursuing a BS/MS degree in Neuroscience. Awarded to *Noah Guy Lewis Guiberson Trisha Deepak Lala Emily Frances Mendez* 

# CHARLES A. MILLER AWARD

Awarded by the Department of Mechanical Engineering for outstanding undergraduate achievement. Awarded to Samuel Frishman Alexander Andrew Spinos

# ELNORA STREB MULY AWARD

Presented to a student who conducted independent study or research on practical problems identified by engineers working in the chemical industry. Awarded to *Jun Woo Jeon* 

# DAVID S. OLTON AWARD

Given annually to support undergraduate research in the area of the biology of behavior, broadly defined. Awarded to *Alexis Andrie Toliver* 

# Awards -

#### ROBERT B. POND SR. ACHIEVEMENT AWARD

Awarded to the graduating senior in the Department of Materials Science who best exemplifies Robert Pond's commitment to scholarly and humane values.

Awarded to Hugo Jake Uvegi

#### MOST DISTINGUISHED THESIS IN PUBLIC HEALTH STUDIES

Awarded to Benjamin Aaron Ackerman Ahmed Sayed Elsayyad

# OUTSTANDING SENIOR AWARD IN PUBLIC HEALTH STUDIES

For academic excellence, leadership, and service in Public Health. Awarded to *Gerard Dean Hampton Melyssa Renee Haubenstricker Jessica Nicole Lee* 

# THE CURT P. RICHTER AWARD IN BEHAVIORAL BIOLOGY RESEARCH

In recognition of outstanding achievement in the David S. Olton Behavioral Biology Program. Awarded to *Lara Michelle Baez* 

# DR. BENJAMIN T. SANKEY FELLOWSHIP

A yearly award established in memory of Benjamin Sankey, a graduate of our program, that recognizes superior performance in the graduate MFA program of The Writing Seminars. Awarded to Amanda Nicole Gunn Jenny Xie

#### SENIOR DESIGN ENGINEERING AWARD

In recognition of outstanding contributions to the design and conduct of an independent research project in the Department of Materials Science and Engineering. Awarded to *Sarah Ann Hewes* 

# ROBERT H. SCANLAN AWARD

For a student who demonstrates an interest and ability to link engineering research to engineering practice. *Stephen David Wong* 

# GERARD H. SCHLIMM AWARD For exceptional

accomplishment by a student in Civil Engineering. Awarded to Isaiah Matthew Sampson

# WILLIAM N. SHARPE AWARD FOR MECHANICAL ENGINEERING STUDENT INVOLVEMENT

Recognizes significant leadership and achievement in extracurricular activities among Mechanical Engineering students. Awarded to *Yvana Daniella Ahdab Jacob David Enterlin* 

# STANTON FORGIONE PRIZE

Named in memory of Phoebe B. Stanton (faculty, 1954– 1982) and Nancy E. Forgione (A&S '74, '92 PhD) for outstanding achievement by an undergraduate in History of Art. Awarded to Joseph Sacks Shaikewitz

# J.J. SYLVESTER AWARD

For outstanding achievement by a senior in Mathematics. Awarded to *Peter Nikolaevich Kalugin Georges Obied* 

# THE SEVERN TEACKLE

WALLACE MEMORIAL PRIZE Awarded for an essay or other original work on Spanish or Latin American literature, literary history, culture, or art. Awarded to Jessica Terekhov

# THE JOHN BOSWELL

# WHITEHEAD AWARD

For outstanding achievements in Electrical Engineering by an undergraduate student. Awarded to *Bill Hyokun Kim* 

# LOY WILKINSON AWARD

For demonstrated record of academic excellence, leadership, and service in Chemical and Biomolecular Engineering by a graduating senior. Awarded to *Ling Huang Christian M. Salera Si Qi Tan* 

# THE WOLMAN AWARD FOR INTERDISCIPLINARY WORK

The Wolman Award is given annually to a graduating senior who exhibits both promise and spirit with regard to interdisciplinary work. It was established in memory of M. Gordon "Reds" Wolman, a faculty member in the Department of Geography and Environmental Engineering, who contributed to the academic growth of the university through service as a department chair and interim provost and through strong advocacy of interdisciplinary studies. Professor Wolman was a beloved member of The Johns Hopkins University for more than half a century. Awarded to Roderick Go

# The Carey Business School

# DEAN'S AWARD FOR EXCELLENCE

The Dean's Award is presented to an undergraduate for the highest grade point average in the undergraduate program. Awarded to *Leesha Jim* 

#### THE EDWARD J. STEGMAN CPA MEMORIAL AWARD

Honors graduating students who complete their master's degree program with the highest cumulative grade point average within the Global MBA, Full-time, and Part-time Master of Science programs of study. Awarded to: Dicky Stefanus, Global MBA Geoffrey Shudtz, Master of Science, Full-time John Sotirios Hiotes, Master of Science, Part-time

# The School of Education

# ALAN THORMEYER AWARD

Awarded to a Master of Arts in Teaching student in the Department of Teacher Preparation who exemplifies the spirit and dedication of its namesake.

Awarded to Melanie Nicole Stanson

#### DIANE TOBIN MEMORIAL AWARD

Awarded annually to an outstanding alumna/us in education. Awarded to *Christina Renee Bos, MAT May* 21, 2009 *Kelsey S. Prakken, MAT May 21*, 2015

### PUBLIC SAFETY LEADERSHIP AWARD

Awarded each year to an outstanding undergraduate. Awarded to *Lloyd R. Ingerson Jr.* 

# The School of Medicine

# AMERICAN ACADEMY OF NEUROLOGY PRIZE FOR EXCELLENCE IN NEUROLOGY

This prize is awarded by the American Academy of Neurology annually to a graduating medical student who exemplifies outstanding scientific achievement and clinical acumen in neurology or neuroscience and outstanding personal qualities of integrity, compassion, and leadership. Awarded to *Alexandra Behar Kornbluh* 

#### THE HARVEY CUSHING MEDICAL STUDENT HUNTERIAN RESEARCH AWARD

This award is presented by the Department of Neurosurgery to a medical student who has demonstrated aptitude, dedication, and achievement in neurosurgical research and who shows promise for a career in neurosurgery. Awarded to *Rishing Xu* 

THE HENRY STRONG DENISON AWARD FOR MEDICAL RESEARCH The Henry Strong Denison Award for Medical Research, established in memory of Henry Strong Denison, M.D. 1908, is used for the specific purpose of aiding in the training for research of young people deemed by the medical faculty to be especially gifted for a career in medical investigation. Awarded to Rebeccah Anne McKibben

THE PAUL EHRLICH RESEARCH AWARDS The Paul Ehrlich Awards were established to honor Dr. Paul Ehrlich with funding originally granted by Dr. Emanuel Libman. The awards, which recognize student research contributions, are presented each year at Young Investigators' Day. Awarded to Tamara Ashvetiya, 2012–2013 Bridget Patrice Keenan Molong Li, 2011-2012 Marcus Seldin, 2013–2014 Lu Sun, 2013-2014 Martin Samuel Taylor, 2013-2014

# THE FRANKLIN PAINE MALL AWARD

The Franklin Paine Mall Award for outstanding performance in the first year medical curriculum was established by Dr. Miley B. Wesson, an alumnus of the School of Medicine. This award is given in the name of Franklin Paine Mall, the first professor of Anatomy in the School of Medicine. Awarded to *Risheng Xu, 2007–2008* 

# THE SOL GOLDMAN AWARD

The Sol Goldman Award is given annually to a Johns Hopkins medical student who is recognized by the faculty of the Department of Medicine, Division of Geriatric Medicine and Gerontology, for excellence in geriatrics and for exceptional sensitivity to older patients. This award is made possible by an endowment given by the family of Sol Goldman to perpetuate an intererst in and commitment to geriatric medicine and gerontology among medical students. Awarded to Veronica Rita Hocker

# EMILY SIMMS HALLER PRIZE

The Emily Simms Haller Prize in Obstetrics was established in 1993 to honor outstanding medical students for their work in obstetrics. Dr. Haller used the Hopkins Hospital Clinics and Labor and Delivery Suite as a site for regular medical student education. Dr. Haller is beloved by decades of students for her teaching and is recognized for her clinical excellence. She is a wife and mother of Hopkins physicians. The prize was created by colleagues, friends, and family. Awarded to

Lauren Danielle Reschke

#### WILLIAM STEWART HALSTED AWARD IN SURGERY

This award established in honor of Dr. Halsted, the first professor and director of the Department of Surgery, recognizes that graduating student entering the field of surgery whose proficiency in the discipline is deemed outstanding by the faculty of the Sections of Surgical Sciences. Awarded to *Cecilia Lui* 

#### HELEN AND HAROLD HARRISON AWARD

The Harrison Award recognizes the remarkable achievements of Drs. Helen and Harold Harrison. The award was established by Dr. Harrison's house officers and colleagues during his many years as Chief of Pediatrics at the Baltimore City Hospitals. This award recognizes outstanding proficiency in pediatrics. Awarded to *Emily Beth Heikamp Matthew John Molloy* 

# Awards -

# THE BAE GYO JUNG AWARD

The Bae Gyo Jung Research Award was established in 2006 by friends and family in memory of Bae Gyo Jung, who was a predoctoral student in the Department of Biological Chemistry. Awarded to

# Danfeng Cai

# THE HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE

The memory of Dr. Harold Lamport, a distinguished investigator, is honored by this prize established by the Lamport Foundation. The prize recognizes research contributions. Awarded to *Howard Wonyoong Choi*,

2012-2013

# WARFIELD T. LONGCOPE PRIZE IN CLINICAL MEDICINE

The award established in honor of Dr. Longcope, director of the Department of Medicine from 1922 to 1946, recognizes that graduating student entering the field of medicine whose performance in clinical medicine exemplifies in outstanding fashion the academic excellence and the human qualities that mark the true physician. Awarded to

Patrick John Besserman Sayre

## PETER C. MALONEY AWARD

The Dr. Peter C. Maloney Graduate Student Award recognizes the outstanding achievement of a graduating doctoral degree candidate in the basic sciences and provides an unrestricted grant to help Ph.D. graduates initiate their academic career. The award is named in memory of Dr. Peter C. Maloney, a beloved faculty member in physiology and the Associate Dean for Graduate Students at the Johns Hopkins School of Medicine. Awarded to Manu Ben Johny

#### THE EXCELLENCE IN MEDICAL STUDENT RESEARCH AWARD

This award is given annually to students whose efforts in basic biomedical, clinical, or public health research are noteworthy and found deserving of special recognition. Awarded to Tamara Ashvetiya, 2012–2013 Yarden Samuel Fraiman, 2011-2012 Maimon Eid Hubbi, 2012–2013 and 2014-2015 Alexander Miles Jenson, 2011-2012 *Cecillia Lui*, 2012-2013 Amar Jagdish Srivastava, 2011-2012 Joshua Andrew Watson, 2012-2013

#### THE MILLER-COULSON ACADEMY EXCELLENCE IN PATIENT CARE AWARD

This award recognizes that graduating student who has written the best essay that reflects on or includes perspectives about excellence in patient care. Awarded to *Riaz Nadir Gillani* 

# THE FRANK H. NETTER, M.D. MEMORIAL SCHOLARSHIP IN MEDICAL ART

The medical illustrator Frank H. Netter, M.D., is known worldwide for his ability to distill complex medical subject matter into clear, effective teaching images. Dr. Netter was not only a skilled draftsman, but knowledgeable in anatomy, physiology, and pathology through his medical training. Family and friends established this scholarship to recognize a student in the Department of Art as Applied to Medicine who displays a similar balance of medical and scientific knowledge with the artistic skills that Dr. Netter exhibited throughout his career. Winners of this award have excelled in their academic courses; displayed exceptional art expression; and most importantly utilized both resources to create well-designed and effective didactic illustrations. Awarded to Jeffrey Huang Day

#### THE NOVEY PRIZE IN PSYCHOLOGICAL MEDICINE

This prize recognizes that graduating student with an outstanding academic record in Psychiatry who has written the best paper on the connection between medical illnesses and mental life. Awarded to *Caleb Pressman Gardner* 

# THE HANS JOAQUIM PROCHASKA RESEARCH AWARD

The Hans Joaquim Prochaska Research Award was established in 1998 to honor outstanding discovery by a student in the School of Medicine. Awarded to *Isaac Abraham Kinde, 2013–* 

2014

# THE STEPHEN J. RYAN, M.D. PRIZE IN OPHTHALMOLOGY

Stephen J. Ryan, a graduate of the Johns Hopkins University School of Medicine, Class of 1965, established this prize in honor of his dedication to medical excellence and his affiliation with the Johns Hopkins School of Medicine and the Wilmer Eye Institute. This prize is awarded to a graduating Johns Hopkins medical student with an outstanding academic record who is entering the field of ophthalmology. Awarded to Inna V. Grishkan

# THE HARRY C. SALTZSTEIN PRIZE FOR MEDICAL WRITING

This prize was established in 1990 by the family of Dr. Saltzstein, a 1914 graduate of the Johns Hopkins University School of Medicine, to recognize his lifelong interest in medical writing. The award is given to that student who has exhibited excellence in medical writing as judged by a faculty committee. Awarded to

Catherine Alessandra Colaianni

# SYLVAN SHANE PRIZE IN ANESTHESIOLOGY AND CRITICAL CARE MEDICINE

This prize, established by Dr. Sylvan Shane, a former member of the faculty in Anesthesiology and Critical Care Medicine, recognizes an outstanding medical student making a career choice in Anesthesiology. Awarded to *Thomas Edward Rappold Jr*.

# THE MICHAEL A. SHANOFF RESEARCH AWARD

The award is made annually to a student for significant research contribution in the medical sciences. The award is made possible by a bequest from the family and friends of the late Dr. Michael A. Shanoff, who earned his undergraduate degree, and M.D. and Ph.D. degrees from the Johns Hopkins University. Awarded to *Sharrol Bachas*, 2012–2013

#### THE ALICIA SHOWALTER REYNOLDS RESEARCH AWARD

This award was created by the School of Medicine Dean's Office in 1996 to honor the memory of Alicia Showalter Reynolds, a Ph.D. student in the Department of Pharmacology and Molecular Sciences from 1992 until her untimely death in 1996. It is given in recognition of contributions to research undertaken by a Ph.D. candidate in the School of Medicine. Awarded to Inna V. Grishkan, 2013–2014

#### SOCIETY FOR ACADEMIC EMERGENCY MEDICINE AWARD

This award recognizes a senior medical student who has demonstrated excellence in the specialty of emergency medicine. Awarded to *Howard Wonyoong Choi* 

# THE METTE STRAND RESEARCH AWARD

The Mette Strand Research Award was established in 1998 as an enduring legacy to graduate education and to honor the contributions to science and education made by Dr. Strand as a Professor of Pharmacology and Molecular Sciences from 1977 until her untimely death in 1997. The award is made possible by the generous contributions of her colleagues and friends as a tribute to her contribution to humanity in the quest for a vaccine against schistosomiasis, her unyielding devotion to science and her role in the training of a generation of graduate students of this institution. Awarded to

Matthew Garrett Baile, 2013– 2014

## THE NUPUR DINESH THEKDI RESEARCH AWARD

This award was established in 2002 to honor the memory of Nupur Dinesh Thekdi, an M.D./Ph.D. student in the School of Medicine from 1996 until his untimely death in 2001. The award was made possible by the generous contributions of his family and friends and is given to honor outstanding research contributions made by a student in the School of Medicine. Awarded to Manu Ben Johny, 2013–2014

# THE DAVID TUCKCHOW YUE AWARD

David Tuckchow Yue, a Johns Hopkins M.D. and Ph.D. graduate, was an inspirational mentor to over 70 students, fellows and members of his Calcium Signals Lab, co-directed the Biomedical Engineering Ph.D. Program, and played an important role in the M.D.-Ph.D. program. In his memory, his wife, Nancy, and sons, Michael, Daniel, and Jonathan, along with his Calcium Signals Lab members, have sponsored the David T. Yue Award to honor innovative research by outstanding graduate students at the Johns Hopkins School of Medicine. Awarded to John Bassam Issa

# WILLIAM H. WELCH AWARD

The William H. Welch Award recognizes outstanding achievement in Pathology by a medical student. Awarded to *Lena Delle Caron* 

# THE W. BARRY WOOD STUDENT RESEARCH AWARD

The W. Barry Wood Student Research Award recognizes present commitment and future promise in research. Awarded to Allen Lee Feng Alexander Scott Harding, 2010–2011 Lauren Maria Thomaier, 2012–2013

# Awards -

# The School of Nursing

# ACADEMIC EXCELLENCE AWARD

To a student whose academic performance has been judged to be outstanding. Awarded to Alex Landon Bluemke Judy Liu Andrea Jane Matter Meg Kathryn Steuer Kirsten Loren Autumn Triemstra Kathleen Meagher Ughetta

#### THE JOHNS HOPKINS NURSES' ALUMNI ASSOCIATION AWARD

To a graduate student demonstrating expertise in professional nursing practice and patient-centered health care delivery. Awarded to Diana Wu Chia Taryn Revenaugh Haselhuhn Bernadette Victoria Russell

#### THE JOHNS HOPKINS NURSES' ALUMNI AWARD

Recognizes a student whose leadership ability is combined with clinical competence and an inquiring mind. Awarded to Allison Pamela Andrews Cierra Renee Crosson Jessica Loren Green

#### EMMA JONES BECKWITH CULLEN AWARD

In recognition of the highest standards of nursing practice and executive ability. Awarded to Ann Marie Albright Melinda Mai Fung Chau Kelsey Joan Palladino

## CARDIOVASCULAR DISEASE PREVENTION AWARD

To the graduate student who has demonstrated a strong commitment to the prevention of cardiovascular disease through excellence in nursing practice or research, sponsored by the Preventive Cardiovascular Nurses' Association. Awarded to *Gretchen Elizabeth Housel* 

#### THE CHURCH HOME AND HOSPITAL NURSING ALUMNAE AWARD

Recognizes a student who best exemplifies a humanistic approach to nursing while integrating the art, science and the spirit of nursing. Awarded to Taiwo Ikeoluwa Ajao Kaitlyn Estelle Mole Candace Elizabeth Martin Andrea Jane Matter

# ELEANOR WADE CUSTER AWARD

To a student who most successfully demonstrates initiative and creativity in improving the health of a community with sensitivity to one's fellow man. Awarded to April Louise Bowen Emily Kendall Smith Justin Harris Shear Kristie Ann Woo

# BETTY CUTHBERT AWARD

To a student who demonstrates outstanding commitment and service to nursing and the University. Awarded to Anne Marie Embertson Matthew Joseph Dwyer Rachel Sunmi Koh

#### SUE K. DONALDSON DISSERTATION AWARD

For the outstanding PhD dissertation in the School of Nursing. Awarded to Yvonne Yarkor Commodore-Mensah

# LEADERSHIP AWARD

To a graduate nursing student demonstrating outstanding leadership in the field of nursing. Awarded to Allison Claire Geissert Meghan Marie Schultz Clifton Peter Thornton

# MARY AND GRAINGER MARBURG AWARD

In recognition of a student who consistently exhibits outstanding clinical nursing expertise. Awarded to *Caitlin Susan Crotty Ellen Carson Evans Emily Margaret Johnson Megan Rebecca Moore* 

# ROBERT G. MERRICK AWARD

To a student demonstrating outstanding leadership in the field of nursing. Awarded to Cecile Kormanik Carson Ashley Cecilia Sayles Marion Archer Trumbull

# RUTH DALE OGILBY AWARD

In recognition of exceptional academic performance in the Master's program. Awarded to *Gretchen Elizabeth Housel Yee Hun Kim Mary Caroline Langrall Jennifer Marie Poliwka* 

#### RESEARCH AWARD

To a student demonstrating intellectual curiosity and creativity in nursing research. Awarded to Ashley L. Fenton Hailey Noel Nygard Genevieve Adelle Purcell Mercedes Sue Safarpour

# EDNA SCHOEN MEMORIAL AWARD

To a student demonstrating excellence in clinical practice. Awarded to Lynn Renee Ahlberg Alexandra Nicole Hembree Julieann Elizabeth Martin Leah Rose Smith

# SIGMA THETA TAU NU BETA CHAPTER AWARD

To a graduate nursing student in recognition of superior academic achievement, creative scholarship and research. Awarded to *Willa Vroman Cochran Alexandra Citrino Maher* 

#### THE SINAI NURSES' ALUMNAE ASSOCIATION OF SINAI HOSPITAL, INC.

Recognizes a student who exhibits enthusiasm, compassion and a positive approach to problem solving in nursing. Awarded to *Erique Erik Gumbs Kaley T. Hardy Gregory Norbert Martin Meyer Zhen Yi Wang* 

#### JOAN SUTTON AWARD

To a student demonstrating a strong dedication to professional nursing, clinical excellence and interdisciplinary practice. Awarded to *Rebecca Ariel Backer Lawrence Joseph McLennan III Heather Caitlin Reinig Aaron Jefferson Timko Tindall* 

The Peabody Conservatory of Music

PEABODY BASSOON PRIZE Awarded to Hanul Park

CLARA ASCHERFELD AWARD IN ACCOMPANYING Awarded to Jennifer Campbell Hyun Jung Kim Syon Kim Yesse Kim Yumi Nomoto Chenchen Wang

B & O WOMEN'S CLUB AWARD IN PERFORMANCE Awarded to *Emily Austin Smith* 

P. BRUCE BLAIR AWARD IN COMPOSITION Awarded to *Xulu Kong* 

# GEORGE CASTELLE

MEMORIAL AWARD IN VOICE Awarded to Tariq Saleem Al-Sabir Sarah Michele Baumgarten Rachel Blaustein Eric Finbarr Carey Zoe Joy Rosenthal Hamberger Nicole S. Hodgins Tae Eun Kang Han Na Lee Young Eun Lee Brian Scott Mummert Katharine Frances Pollock Alexandra Schleuderer Claire Galloway Weber Rebecca Elizabeth Wood Woonji Yeoh

ISRAEL DORMAN MEMORIAL AWARD IN STRINGS Awarded to Deirdre Moran DeStefano

CHARLES M. EATON PRIZE IN VOICE Awarded to *Carrie Elizabeth Quarquesso* 

# PAULINE FAVIN MEMORIAL AWARD IN PIANO Awarded to *Sooji Han*

Jade Huang

SIDNEY FRIEDBERG PRIZE IN CHAMBER MUSIC Awarded to Sahun Hong

LILLIAN GUTMAN MEMORIAL PRIZE IN PIANO Awarded to *Wai Yin Wong* 

LYNN TAYLOR HEBDEN PRIZE IN PERFORMANCE Awarded to *Alexander Cain Carlucci Frank L. Hammarin*  SIDNEY JENSEN MEMORIAL PRIZE IN WOODWINDS: CLARINET Awarded to *Alexander Clark* 

GUSTAV KLEMM AWARD IN COMPOSITION Awarded to *Zhujun Pan* 

JAMES WINSHIP LEWIS MEMORIAL PRIZE IN PERFORMANCE Awarded to Yanbin Chen Jordan Thomas

# IRVING LOWENS ENDOWED MEMORIAL PRIZE IN MUSICOLOGY Awarded to Devon J. Borowski

Elizabeth Diana Massey

ADA ARENS MORAWETZ MEMORIAL AWARD IN COMPOSITION

Awarded to James Chu

# OTTO ORTMANN AWARD IN COMPOSITION

Awarded to Andrew Jonathan Posner

# OLGA VON HARTZ OWENS MEMORIAL PRIZE IN STRINGS Awarded to *Heidi E. Bauer*

Vincent Neil Trautwein

PEABODY EARLY MUSIC AWARD Awarded to Niccolo Ezra Seligmann

#### PEABODY VOICE AWARD

For outstanding voice students devoted to Peabody and the community. Awarded to Bethany Baxter Joshua S. Glassman Megan Elizabeth Heavner Alayna Marie Roby

GRACE CLAGETT RANNEY PRIZE IN CHAMBER MUSIC

Awarded to Wing Yin Lucinda Chiu Eric N. D'Alessandro Mauricio Rey Gallego Michelle Yerie Shin Tzu-Jou Yeh Akkra Yeunyonghattaporn

RANDOLPH S. ROTHSCHILD AWARD IN COMPOSITION Awarded to *Charles Anthony Rudig* 

#### ALICE AND LEARY TAYLOR AWARD IN PERFORMANCE

Awarded to Stephen Abraham Slater

MELISSA TILLER MEMORIAL PRIZE IN STRINGS: VIOLIN

Awarded to Michelle Yerie Shin

FRANCES M. WENTZ TURNER PRIZE IN PIANO Awarded to *Alie Anne Yorgason* 

# J.C. VAN HULSTEYN AWARD IN STRINGS: VIOLIN

Awarded to Wing Yin Lucinda Chiu Congchang Dou Lydia Michelle Skinner

ANNIE WENTZ PRIZE IN VOICE Awarded to *Rebecca Roy* 

# Awards -

# GEORGE WOODHEAD PRIZE IN VOICE

Awarded to Devon J. Borowski Abigail West Chapman Joshua Thomas Diaz Min Sang Kim Jaenam Teri Lee Victoria Grace McGrath Richard Corbin Phillips Lauren Elizabeth Randolph Wenhui Xu

#### SARAH STULMAN ZIERLER PRIZE IN ACCOMPANYING

Awarded to Priscilla Muh-en Chang

# The Bloomberg School of Public Health

#### AOYAMA-KITA SCHOLARSHIP

To an outstanding student from Japan, Korea or Malaysia. Awarded to *Naoaki Kuroda* 

# J. HOWARD BEARD FELLOWSHIP

To an outstanding student pursuing a career in local or state public health work. Awarded to *Kevin James Contrera* 

#### THE DAVID AND PATRICIA BERNSTEIN SCHOLARSHIP

To an outstanding MPH student. Awarded to *Lauren Marie Cass* 

# CELE AND PETE BORCUK ENDOWMENT

Supports nurses and nursing students studying public health. Awarded to *Mariel E. Harding*  FRAN BOWER STUDENT SCHOLARSHIP To an outstanding MPH student. Awarded to *Mariel E. Harding* 

# ENDOWED SCHOLARSHIP IN THE HEALTH OF MOTHERS AND CHILDREN

To a student whose interests, research and career plans are focused on improving the health and saving lives of mothers and children. Awarded to *Edward Kangsuhp Kim* 

THE ESKRIDGE FAMILY STUDENT SUPPORT FUND FOR INTERNATIONAL STUDENTS

To an outstanding international student. Awarded to *Ahmad Adi* 

# GLOBAL HEALTH SCHOLARS

Supports students in the MPH program. Awarded to *Emilia Basilio* Marissa Ashleigh Boek Hoa Ngoc Vo

# THE LILLIAN HISS-ETHEL

CROSBY SCHOLARSHIP FUND To an outstanding graduate student with a nursing background. Awarded to *Mariel E. Harding* 

THE SIBLEY AND CATHERINE HOOBLER AWARD FOR EXCELLENCE IN PUBLIC HEALTH AND MEDICINE

To encourage study at the Bloomberg School of Public Health and the School of Medicine. Awarded to *Nicky Jayna Mehtani* 

# LEE M. AND MAXWELL C. HOWARD SCHOLARSHIP FUND FOR INTERNATIONAL STUDENTS

To an outstanding international student. Awarded to *Vanessa Cavallera* 

# JOHN C. HUME MASTER OF PUBLIC HEALTH AWARD

To a graduate for academic excellence and professional promise. Awarded to *Catherine Ida Kastleman* 

CENTER FOR A LIVABLE FUTURE-LERNER FELLOWSHIP To doctoral students who are committed to the discovery and/or application of knowledge about public health challenges associated with the current food system, and/or about the creation of a healthier, more equitable, and more resilient food system. Awarded to Ricardo Castillo Nevra Wei-ting Chen Megan Linnea Clayton Laura Kressner Cohh Elisabeth Anne Donaldson Lisa Prokop Lagasse Melissa Nicole Poulsen Patricia L. Truant

#### CENTER FOR A LIVABLE FUTURE DOCTORAL FELLOWSHIP

To a doctoral student supporting research in sustaining life for future generations. Awarded to *Rachel M. Rieder* 

# THE DR. CYNTHIA MAUNG ENDOWED SCHOLARSHIP FUND

To outstanding medical students pursuing an MPH degree. Awarded to *Megan Meah Hosein* Joseph Jeffrey Klemczyk Joseph Alan Lin

#### THE JANICE EDDY MICKEY ENDOWED SCHOLARSHIP

To recognize demonstrated commitment to improving health and human rights.

Awarded to Sunny Lai

#### THE MINORITY HEALTH AWARD

To recognize a demonstrated commitment to minority health issues.

Awarded to Sunny Lai

# THE RUTH RICE PUFFER FUND FOR INTERNATIONAL STUDENT SUPPORT

To an outstanding master's degree student who is not a US citizen.

Awarded to Ivan Pynshngain Marbabiang

#### SOMMER SCHOLARS

Recognizing MPH and doctoral students with outstanding academic ability and public health leadership potential.

#### Awarded to

Deana Marie Around Him Noelle Battle Robert Anthony Bonacci Natalie Hoi-Man Chan Jerome Brindesh Atputhasingam Chelliah Sarah Lorraine Dalglish Alyssa Christine Frazee Mindy Kim Graham Hyo Jung Lee Wendy Lee Joseph Alphonsus Chantiwuni Nindow Jenna Lynn Riis Jeremy Adam Tanner Maya S. Venkataramani

# THE WATT/HANSELL ENDOWMENT

To an outstanding student pursuing training at the School of Public Health and the School of Medicine. Awarded to *Kevin James Contrera Nicky Jaya Mehtani* 

## Y. C. YANG STUDENT SCHOLARSHIP ENDOWED FUND

To outstanding international MPH students. Selection preference is for students from lower- and middleincome countries who demonstrate a commitment to returning to their home countries directly after completing the MPH. Awarded to *Oluwaseun Perosola Banjo* 

# The Paul H. Nitze School of Advanced International Studies (SAIS)

MAX M. FISHER PRIZE FOR EXCELLENCE IN TEACHING

This prize honors the late Max M. Fisher who was an advisor to U.S. presidential administrations for decades on Middle East policy. The prize is awarded each year at commencement to one SAIS professor selected by the student body. Awarded to *Matthias Matthijs* 

#### WILLIAM C. FOSTER AWARD

To a second-year student for sound scholarship and a record of leadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty, and ability admired in Mr. Foster. Awarded to *Cory O. Bullock Christopher Robert Burger* 

#### CHRISTIAN A. HERTER AWARD

To a member of the secondyear class with the most outstanding academic record during the first three semesters. Awarded to *Kyriaki Gartzou Katsouyanni* 

# Phi Beta Kappa

Phi Beta Kappa, founded at the College of William and Mary in 1776, is the nation's oldest and most prestigious undergraduate honors organization. To gain election students must have excelled in a broad array of undergraduate courses in the arts and sciences offered at one of the 249 colleges and universities in the United States that are sufficiently rigorous and intellectually challenging to shelter a Phi Beta Kappa chapter. The Johns Hopkins University chapter was founded in 1895.

FROM THE SENIOR CLASS IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES ELECTED IN 2015 Nicole Ilana Aronson Lucas George Axiotakis Jr. Lara Michelle Baez Bedram Bararpour Benjamin Auguste Barsky Misa Marie Baum Eleanor L. Bergren Wiebke Blaszcyk Maxwell John Bowens Alexandra Marie Browder Tyler Scott Bryant Samantha W. Carter Nicholas Zelna Cerrone Ruth Yo-Ron Chen Peranat Dayananda Gabriel Demeter Denis Daniel Gilbert Elkin Diego Alexander Espinoza Vincent Faber Justin Anthony Falcone Louis Shipley Foxwell Joshua Nathan Goodstein Andrew Raab Griswold Saksham Gupta Brandon J. Hsu Yijia Hu

Kangqiao Huang Ki Hoon Hur Sarah Mary Jabour Leah Anne Jensen Aurora Congxi Jin Ali Casey Zouheir Kassem Samuel Derege Kebede Sophia Khalil Jung Won Kim Tyler Zarus Knowlton Laura Stevens Kokotailo Aravind Krishnan Kelly Lampayan Joshua Aaron Langfus Jeremy Lin Athanasia Olga Livas Deanna M. Loh Derek Thomas MacMath Emily Lynn Maling Cecilia M. Mancuso Rebecca P. Marcus William Homer Mason Amanda Susan Masse Molly Elizabeth McGlone Iordana Gertie Meisel Jorge Aurelio Menendez Christina Lynn Meyer Andrea Janine Michalowsky Joi Danielle Moore Hemen S. Muleta Maria Luisa Navarro Sanchez Stephanie Boey Ng Felicia James Onuma Simon Leo Osipov Zoe Loretta Ovans Jessica Hyunji Park **Rvan Barlow Patterson** Davide Pini Ryan Christopher Poholek Nikko Brooks Price Angela Pyo Christopher James Quinn Georges-Aurelien E. Quist Yonah Azriel Reback Caroline Sara Resnick Oscar Eduardo Reyes Gaido Annie Rhee Ellen Marie Rogers Virginia Erin Rogers Eric Christian Ryberg Enrico Michael Scarpelli

Eliza Isabel Schultz Shereen Tariq Shafi Lucas Jhoon-Sung Shin Alex Marissa Silver Meredith Ragna Stock Camille Perez Tambunting Marija Vasiljevic Martin Ventoso Cristina Viguera Altolaguirre Ellen M. Waddell Daniel Affelder Weissglass Madeline Gray Wheeler Zachary Andrew Winters Rachel Ann Wolinsky Peter Bartlett Wu Bettina Wunderlich Kwangho Yun Yi Stephanie Zhang

# FROM THE SENIOR CLASS IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES ELECTED IN 2014

Evan Joshua Hess Victoria Huang Peter Nikolayevich Kalugin Jessica Nicole Lee Ross S. Liao Jose Ulises Nino Rivera Georges Obied Karen Amanda Reitman

FROM THE SENIOR CLASS IN THE G. W. C. WHITING SCHOOL OF ENGINEERING, APPLIED MATHEMATICS AND STATISTICS, ELECTED IN 2015 Alex Ryan Sher

FROM THE PH.D. CANDIDATES IN THE BLOOMBERG SCHOOL OF PUBLIC HEALTH Lian-Yu Chen Cassandra Kercher Crifasi Chin-Chi Kuo Lisa Prokop Lagasse Sarah Rachel Meyer Monica Liliana Mispireta Jesse Paul Negherbon Trang Quynh Nguyen Zhenke Wu Weiying Zhang

FROM THE PAUL H. NITZE SCHOOL OF ADVANCED INTERNATIONAL STUDIES Marcus Johannes Brakel Francesco Cenedese Rebecca de Guttry Brian Seán Fox Benjamin Rafael Katzeff Silberstein Nanjundi Karthick Krishnan Ilaria Mazzocco Maude Ellen Morrison Alexandra Papatheodorou Lisa Ute Maria Pflaum Katrina Danielle Pirner Ernestine Elisabeth Roeters van Lennep Kyungsil Roh Gregor Schueler Priyanka Verma Samantha H. Witte Georgios Xenokratis

# FROM THE PH.D. CANDIDATES IN THE SCHOOL OF MEDICINE

Yun-Ching Chen Katrina Jones Vijay Mohan K Namboodiri Hongkang Zhang YingXin Zhang

# Beta Beta Beta Biological Honor Society Johns Hopkins University, Rho Phi Chapter

Lucas George Axiotakis Jr. Mustafa Anees Buxamusa Sunny Shengyuan Cai Caryn Nicole Carson Caitlyn Elizabeth Cennamo Yuchen Duan Benjamin Christopher Ford Muhammad A. Hamza Mir Shanaz Hossain Brandon Ji-Hao Hsu Victoria Huang Nicholas Alexander Igo Melissa Mary Jones Samantha Yvonne Lux Derek Thomas MacMath Emily Lynn Maling Aditya Mithal Katarina Thuy-Dan Nguyen Jose Ulises Nino Rivera Sarshan Rubintheran Pather Matthew Richard Peck Sudarshan Suresh Kumar Pinglay Oscar Eduardo Reyes Gaido Enrico M. Scarpelli Amit Kumar Sharma Sara Kimiko Suzuki Skyler Andrew Uhl Bettina Wunderlich

# Woodrow Wilson Undergraduate Research Fellowship Program

Unique to Johns Hopkins University, the Woodrow Wilson Undergraduate Research Fellowship Program, founded in 1999, offers a select group of undergraduates in the Krieger School of Arts and Sciences the opportunity to explore new avenues of inquiry alongside and with the guidance of scholar-teacher mentors whose own research is at the cutting edge of their disciplines. Selection of Fellows is based on academic merit and the strength of applicants' proposals for independent research. Students have the Fellowship for the entire length of their undergraduate careers.

The following members of the graduating class have been Woodrow Wilson Fellows:

Ivan Chen Gabriel Denis Sean J. Donohue Michelle Hannah Edelson Justin Falcone Elizabeth Fortson Noah Guy Lewis Guiberson Victoria Huang Pamela Tolf Hugi Peter Nikolaevich Kalugin Aaron Zachary Katrikh Em Mitchell Aditya Mithal Mackenzie Norman Theodore B. Owen Sungbae Paul Park Elizabeth Gordon Pfeffer Carrie Resnick Annie Rhee Rohini Kousalya Siva Ryan Edward Wood Yi Stephanie Zhang

# Tau Beta Pi National Engineering Honor Society

Anvesh Kumar Annadanam Rohit Bhattacharya Patawut Bovonratwet George Major Chen Letitia Kai-Ling Chim Won Kyu Choi Maxwell Jordan Collard Celine A Cua Alex Raymond Diehl Jacob D Dooling Wesley J Ericksen Amanda Lynn Facklam Samuel Frishman Tomas Adolfas Gaigalas Michael Zehua Gao Chad T Howard Ling Huang **Yvonne** Jiang Ming Kang Yu Min Kang Tucker Gordon Kearney Bobak Toussi Kiani Bill Hyokun Kim Dohee Kim Renu Kondragunta John Jinyoung Lee Jessica Shinwei Lin Carly S Loveland Sean Davis Mattson Allison G Moyer

Upas Narayan Lisa Ni Phillip Jounghoon Oh Daniel Ruben Ovelar Burak Arda Ozilgen Anthony Joseph Pergola Jack F Riley Isaiah Matthew Sampson Megan Marie Schwarz Alexander Andrew Spinos Sandya Subramanian James Hartman Teasley Hugo Jake Uvegi Jiarui Wang Martha Frances Whiting Ian Michael Wilkes Stephen David Wong Jesse Xing

# Upsilon Pi Epsilon

The International Honor Society for the Computing and Information Disciplines was founded at The Johns Hopkins University in 1999 to recognize academic excellence at both the undergraduate and graduate levels.

The following members of the graduating class have been elected to Upsilon Pi Epsilon:

Vamsi Chunduru (BS) Jeffrey S. Dallatezza (MSE) Maxwell N. Dickey (BS) Austin Jed Estep (MSE) Lindsey R. Fernandez (BS) Benjamin N. Glickman (BS) Yvonne Jiang (BS) Gabriel S. Kaptchuk (BS) Tuvia D. Lerea (BS) Jennifer Lu (BS) Fumbeya Marungo (MSE) Roger Que (MSE) Jose Nino Rivera (BS) Carlo O. Olcese (BS) Lin Yang (PhD)

# Alpha Omega Alpha Honor Medical Society

The Alpha Chapter of Maryland was established at The Johns Hopkins University School of Medicine in 1906. Medical students with outstanding records are elected to membership in their senior year.

The following members of the graduating class have been elected to membership in Alpha Omega Alpha:

Christopher Ravi Bailey Catherine Alessandra Colaianni Julia Cockey Cromwell Charles Nicholas Cuneo Adam Christopher Diehl Inna V. Grishkan Natasha Gupta Alexander Scott Harding Kristopher Allen Kast Bridget Patrice Keenan Alexandra Behar Kornbluh Carol Li Cecillia Lui Matthew John Molloy Carolyn Leigh Mulvey Vanessa Lindsay Pascoe Patrick John Besserman Sayre Aditi Vasan Shannon Lydia Walker Risheng Xu

# Delta Omega National Public Health Honor Society

Ahmad Adi Katharine Anastasia Allen Alexia Anagnostopoulos Jessica Rose Appelson James Bao Shana Nicole Bartley Noelle Battle Amanda Elizabeth Belknap Aamir Bharmal Marissa Ashleigh Boeck Cassie Lucille Boles Robert Anthony Bonacci

# HONOR SOCIETIES -

Melinda Noelle Brown Margaret Claire Cantara Natalie Hoi-Man Chan Jerome Brindesh

Atputhasingam Chelliah Janet Seolin Choi Megan Linnea Clayton Laura Kressner Cobb Kathryn Lindsay Conn Katie M. Cueva Sarah Lorraine Dalglish Nicholas Robert Degner Elisabeth Anne Donaldson Andrea Suzanne Freyer Dugas Eva Hisako DuGoff Jeffrey Duong Susan Davis Emmett Marissa Bree Esser Tamara Sol Flys Anna Elizabeth Fretz Hiwote Kenfe Getaneh Haley G. Gibbs Alessandra Christine Grasso Xiaoyu Guan Avni Gupta Mariel E. Harding Mike Zhongyu He Sun-Yin Ho Tiffany Fay Ho Simin Hua Nasreen Jessani Edward Kangsuhp Kim Jane H. Kim Christian Peter Larsen Xi Li Jessica Lin Beth Sydney Linas Joanna Kristin Mackenzie Anwesha Majumder Shayanne Noelle Martin Ryan Jordan Max Heather Shelley Mckay Sarah Rachel Meyer Caitlin Michelle Milder Kimberly Marina Mook Allyson Lindsay Russell Nelson Derek Kai Sing Ng Joseph Alphonsus Chantiwuni Nindow Joseph Girard Nugent Cristi Lee O'Connor

Yasmin Parvizi Ogale Jessica Lee Oidtman Semee H. Pak Yuanjie Pang Amy Kaye Paul Melissa Nicole Poulsen Katharine Kelsey Raisler Rachel M. Rieder Simran Kaur Sabherwal Andrew David Seiden Brianna Jean Sennott Majid Shafiq Elinor Marie Shetter Juliana Tropper Shulman Tyler Joseph Stewart Smith Carrie Nyce Stoltzfus Jun Sugihara Agnes Sweetlin Hepsibah Sundaresan Jeremy Adam Tanner Martin Tibuakuu Grace Annabel Trompeter Alexander J. Vannoni Katie McCoy Wells Christine Kay Williams Rebecca Yuen Shi Wong Aozhou Wu Zhenke Wu Nichole Ryan Wyndham Eric Yau Caroline Evans Young Jessica Le'Vette Young Yuehan Zhang

# Sigma Theta Tau Nu Beta International Honor Society of Nursing

Xueping Zhou

The following doctoral students have been elected to Sigma Theta Tau Nu Beta:

Seung Woo Choi Sarah Elizabeth Clarke Rachael A. Crickman Katherine E. Heinze Kirsten Allison Hickerson Brandi McClain Deborah Jean Poerio Lisa M. Sgarlata The following master's students have been elected to Sigma Theta Tau Nu Beta:

Katherine Marie Bednarczyk Siobhan Forbes Shannon Lvnn Heuklom Enesha Jenise Hicks Nicole Marie Maffia Theresa A. Medicus Onvinye Mkparu Nasreen Mohammed Bernadette Victoria Russell Corazon Almeida Sarmiento Emily Thompson Schelberg Sherri Shaffery Brenda Mary Sicotte Anik Taylor Shuchita Vandra Sarah Jane Weber Madeleine Whalen Alison Newell Young

The following undergraduate students have been elected to Sigma Theta Tau Nu Beta:

Cailey Clarke Aburn Taylor Phippen Adams Ann Marie Albright Rachael Dorothea Aina Alli Elysia Marie Amoroso Shannon Kaur Aulakh Emily Elizabeth Ballantyne Madeleine Anne Barab Anna Teresa Bianco Alex Landon Bluemke April Louise Bowen Sabrina Marie Bowling Jillian Grace Brems Amy Lynn Brumme Natalie Sarah Burns Mary Katherine Callahan Ashley Nicole Cannizzaro Alexandra Brindza Chapman Erin Ashley Colleran Amelia Ann Cover Caitlin Susan Crotty Amy Elizabeth Cutino Merebea Metcalf Danforth Dana Michele Davies Dianne Lisa Durano

Joseph Floyd Dyer Ellen Carson Evans Rachael Elizabeth Goodick Katherine Elizabeth Graap Jessica Loren Green Ashley Katrina Gresh Rachel Jane Guthridge Kelly Lynn Hann Rachael Grace Hanna Ava Voorhes Hauck Alexandra Nicole Hembree Heather A. Hightower Julia Diane Hill Antonia Bertucci Hoehn Brynn Margaret Huffman Helen Howe Jenny Emily Margaret Johnson Christina Lynn Kachulis Anne Kathryn Keith Rachel Sunmi Koh Emily Danika Kuehn Sarah Stevens Laird Suzanne Townsend Levitch Judy Liu Breanne Michele Lohman Jessica Lee Lucas Kelsey Alexandra MacDonald Andrea Jane Matter Kaitlin Leigh McHenry Mary Elizabeth Migliarese Megan Rebecca Moore Amy Morales Chelsea Marie Nahill Elizabeth Rasfeld Norris Hailey Noel Nygard Tiffany B. Price Genevieve Adelle Purcell Caitlin Rathburn Heather Caitlin Reinig Lauren Kelly Rosales Chelsea Marie Rouleau Diana Rumbo Mercedes Sue Safarpour Nina Hondo Sasso Liesl Marie Sieber Rajdeep Singh Christina Marie Smith Leah Rose Smith Madison Whitney Soderstrum Evan D. Sommer Katherine Julia Spence

Meg Kathryn Steuer Renee Jean Stretchberry Stephanie Marie Swenson Amelia K. Tenberg Aaron Jefferson Timko Tindall Kirsten Loren Autumn Triemstra Kathleen Meagher Ughetta Katherine Ann Vaillancourt Emily Anne Vaughn Valerie Rita Vesnaver Kaitlin Theresa Warnock Elizabeth Victoria Warren Christine Marie Weikert Tess Alexandra Whiteside Jessica Marléne Williams Allison Marie Yager Alison Brooke Young

# Honor Society for the School of Education

#### Chi Sigma Iota

Chi Sigma Iota, Lambda Chapter, is the international honor society that values academic and professional excellence in counseling. They promote a strong professional identity through members (professional counselors, counselor educators, and students) who contribute to the realization of a healthy society by fostering wellness and human dignity. The mission of Chi Sigma Iota is to promote scholarship, research, professionalism, leadership and excellence in counseling, and to recognize high attainment in the pursuit of academic and clinical excellence in the profession of counseling.

The following members of the graduating class are members of Chi Sigma Iota:

Maha Saud Assubayii Julie Bollinger Alyssa Cetoute

Heather R. Clark Nicole L. Crawford Patrice Ann Dirican Donald E. Dolan Patrice R. English Ashley A. Eveleth Jessica Kastner Finkelstein Sarah K. Gardner Iwona M. Gerner Joselyn V. Heltzer Kristy Nicole Hicks James Huai-Hsien Hsieh Jennifer R. Ivan Brittany Lynn Jennings Ann Rebecca Kaufman Emily Ann Lamoreau Lyubov Lebed Sarah Ashley McDermott Iasmine A. McEwen Christine Elizabeth McGowen Kelly Danielle Morton Melissa L. Morton Sumaiya Batool Olatunde Morayo E. Olukoya Adepoju Oni Hannah Elise Rose Kalea Annai Selmon Rachel Alexandra Sheffel Terrain Sarafina Singleton Kelsey Anne Louise Stephenson Julianne Tortolano Elynn Morgan Waller Kimberly R. Woodard Ted Wilcox Worm Tasha Vanessa Wright Garrick Jing Yang

# Phi Delta Kappa

Phi Delta Kappa is a 100-yearold professional association for educators. This memberbased association is a dedicated advocate for highquality, public education around the world. Phi Delta Kappa strives to prepare the next generation of educators through visionary leadership, research and service.

The following members of the graduating class are members of Phi Delta Kappa:

Hogai Sarbeland Aryoubi Lana Kuxhausen Shea Walter R. Simmons

# STUDENT HONORS -

# General University Honors

General University Honors were determined at the end of March 2015, for students who had achieved a cumulative Johns Hopkins University grade point average of 3.5 or higher. Students earning this honor at the end of spring 2015 semester will have that notation placed on their final transcripts.

# The Zanvyl Krieger School of Arts and Sciences

# Baccalaureate Candidates Graduating with General Honors

Neena Merine Abraham Alexander Cruise Abramson Benjamin Aaron Ackerman Madhvi Aggarwal Akriti Ahuja Iulia Hunter Allen Braden Michael Anderson Jill Nicole Anderson Lajari Anne Ran Ao Elizabeth Miller Arenz Nicole Ilana Aronson Samuel Conger Austin Lucas George Axiotakis Jr. Olivia Clark Babb Karen Elizabeth Baddoura Lara Michelle Baez Destiny Dawn Bailey Alexandra Delaney Baker Bedram Bararpour Ross William Barber Alexandra Camilla Barbera Annabel Olivia Barnicke Benjamin Auguste Barsky Sunakshi Bassi Misa Marie Baum Anna Michele Bellantoni Ryan Frankie Bender David James Berenato Eleanor L. Bergren Bianca Biberaj Katerina Noel Bierwirth

Wiebke Blaszcyk Anastasia Katerina Bogdanovski Joseph David Boris Kathryn Joyce Botto Maxwell John Bowens Aaron S. Bower Rebecca Frances Brinkley Julia Elise Broach Evan Daniel Brooker Alexandra Marie Browder Tanner William Brown Tyler Scott Bryant George Bugarinovic Isabelle Livingston Hale Burden Anthony John Burzillo Haley Anne Bush Mustafa Anees Buxamusa Sunny Shengyuan Cai Lindsay Anne Caldarone Maria Hannah Callahan Yue Cao Michael Murray Caplan Paul Michael Carbone Matthew Stephen Carey Samantha Whitney Carter Catherine Moore Carulas Stefano Andrea Castagnola Caitlyn Elizabeth Cennamo Nicholas Zelna Cerrone Kelsey Elizabeth Champagne Theodore Jun Ming Chan Connie Singyi Chang Ivan Chen Robert Yuan Chen Ruth Yo-Ron Chen Ruu Harn Cheng Hye-Yeon Cho Nathan Junghoon Choe Isabella Victoria Ciuffetelli Alamo Kaitlyn Marie Coleman Joseph Ryan Connors Ryan D. Conroy Alyssa Carroll Conti John J. Corbett III Marilyn Filkins Corson Pedro Cortes Herty Junior Cortez Diaz Edward Wallace Corty John Anthony Cotoia

Michelle Court-Reuss Carly Marie Cox Bryn Alexandra Cross Devon Elizabeth Cross Kevin Joseph Cryan **Ross Daniel Cummings** Ryan Andres Cunningham Hope Elizabeth Daily B'lane S. Daly Peranat Dayananda Adam R. Dec Gabriel Demeter Denis Rebeca Amaris Yishay **Diaz-Reyes** Julia Grace DiMauro Hilario Francisco Dominguez David Dong Meagan Christine Donohoe Andrew Nicholas Doris William Mark Dorman Justin David Drechsel Carolyn Sandberg Drogt Robin Du Yuchen Duan Quinn Dunkak Kelly Marie Dunn Michelle Hannah Edelson Anke Katarina Ehlert Daniel Gilbert Elkin Ahmed Sayed Elsayyad Katherine Cordon Emerson Ashley Samantha Emery Diego Alexander Espinoza Lauren Elizabeth Evans Laura Miranda Ewen Vincent Faber Justin Anthony Falcone Zhou Fang Alana Rae Farr Alessandra Felloni Heather Feng Edgar Allen Fiallos Andrea Felice Fields Kyle Edwin Fischer Sophia Elizabeth Fleming-Benite Natasha Simone Fletcher Jonathan Ka-leung Fong Benjamin Christopher Ford Elizabeth Lauren Fortson Louis Shipley Foxwell

Gregory George Fuller Anne Alastair Gallay Ryan Alexander Gallo Alexis Paige Gannaway Maria Isabel Garcia Danielle L. Gilbert Mariana Nunez Giraldez Emily Kate Glickman Alaina Irene Gold Robert M. Goldhirsch Ariel Jacob Goldschlag Kaylin Shae Gonzalez Yeirim Goo Sarah Savieira Goodman Joshua Nathan Goodstein Jeffrey M. Granja Harriet Catherine Charlotte Green David Scott Greenbaum Michelle Paige Greenman Andrew Raab Griswold Arie Abraham Grunberg Nikhil Gupta Saksham Gupta Meredith Grace Haddix Tai Kyung Sohn Hairston James Robert Hammer Gerard Dean Hampton Muhammad A. Hamza Grace Verhage Hancock Abby Anita Hartmann Margaret L. Hashmall Michael Harper Hatfield Melyssa Renee Haubenstricker Zachary Maxwell Hecht Parviz Daniel Pastor Hejazi Malka Herman Shannon Marie Herndon Evan Joshua Hess Samantha Carly Hirsch Amanda Fay Hobson Mir Shanaz Hossain Iade B. Hsiao Brandon Ji-Hao Hsu Yijia Hu Jennifer Dara Huang Kangqiao Huang Victoria Huang Peter James Huether Hannah Jacqueline Hughes Pamela Tolf Hugi

Jennifer Huh Stephanie Lynn Huie Ki Hoon Hur Kelley Elizabeth Hussey Seungmin Hwang Lauren E. Icken David Michael Israel Sarah Mary Jabour Zoe Elena Jack Leah Anne Jensen Luke Tyler Jenusaitis Alice Caroline Jiang Aurora Congxi Jin Danae Michal Johnson Ingrid Joanna Johnson Kinu Koye Johnson Melissa Mary Jones Keya Durga Joshi Robert Sylvain Kahn Meghana Kalavar Peter Nikolaevich Kalugin Muska Kamran Venetia Aikaterini Karamitsou Kameko Makanalani Karasaki Andrew Gregory Karns Ali Casey Zouheir Kassem Samuel Derege Kebede Sophia Khalil Lindsay Claire Kiernan Bohyun Kil Dae Jin Kim Gyudae Kim Jin Wan Kim Jung Won Kim Woojin Kim Yoo Jin Kim Patricia Medta Kingkeo Margaret Elizabeth Kneifel Tyler Zarus Knowlton Laura Stevens Kokotailo Eddie Chak Hong Kong Stefan Kouumdjiev Laura Gabrielle Kovach Erica Suzann Kresch Aravind Krishnan Hannah Michaela Kronick Amanda Elizabeth Krosche Benjamin Alec Kupferberg Trisha Deepak Lala Kelly Lampayan Joshua Matthew Land

Jillian Lane Mackenzie Gabrielle Lane Joshua Aaron Langfus Tierra Rochelle Langley Ardian Latifi Tara Brooke Lawrence Savanna Ruby Leak Grant Arthur Lease Audrey Christine Leasure Gi Young Lee HyunJong Lee Jessica Nicole Lee Justin Lee Seol A Lee Sun Joo Lee Sunyan Lee Victoria Alexandra Lee Kathleen Margaret Lewis Joshua William Lewittes Fraulein Fangfei Li Ross Shane Liao Erik Jonathan Lim Anne Ning Lin Jeremy Lin Jenna Lauren Link Lauren Michelle Lipshutz Athanasia Olga Livas Jillian McCully Liwacz Christopher Edward LoBello Frances Ford Loeb Deanna M. Loh Michael Andrew Longo Jr. Michael Thomas LoPiano Zachary Wayne Lorenz Eleanor Joelle Lucas Samantha Yvonne Lux Ingrid Ma Derek Thomas MacMath Peace C. Madueme Nicholas Eric Maki Emily Lynn Maling Cecilia M. Mancuso Seema Elhum Marashi Rebecca P. Marcus Samuel Aaron Markstein Victoria Rae Marlin Grace Anja Marshall Molly Chisholm Martell Jordan Alexander Martinez William Homer Mason Alexandre Eliot Mason-Sharma Andrea Hope Massaro Amanda Susan Masse Christopher A. Matey Michael Timothy McCartin Jr Molly Elizabeth McGlone Eliza Degroot McGowen Ian Hunter McMurray Jordana Gertie Meisel Matthew Bryan Meissner **Emily Frances Mendez** Emily Rose Menken Molly Anne Merkel Mariel Alexa Metalios Christina Lynn Meyer Andrea Janine Michalowsky Jahan G. Mirchandani Jenny Emmaline Mitchell Aditya Mithal Michelle Jinsun Moon Joi Danielle Moore Megan Kathleen Morrow Hemen Solomon Muleta Ariel Dalia Multak Matthew Paul Myers Emily Michelle Nagourney Christina Soo-Jung Nam Anthony Joseph Nastasi Jr Maria Luisa Navarro Sanchez Kathleen Pierce Naymon Stephanie Boey Ng Katarina Thuy-Dan Nguyen Jose Ulises Nino Rivera Florence Valentina Noorinejad Mackenzie Bernice Norman Keity Mey Okazaki Aleksandra Igorevna Olekhnovich Norah Starkston Oles Felicia James Onuma Jelyca Martina Ormond Simon Leo Osipov Kiara Ott Zoe Loretta Ovans Eleni Katherine Padden Ioel Abraham Pally Dennis Howard Pang Jessica Hyunji Park Jun Hyun Park Kee Waan Park Sang A Park Sungbae Paul Park

Anita Patel Kishan H. Patel Krishna Kirit Patel Sarshan Rubintheran Pather Ryan Barlow Patterson Melissa Pedroza Violette Perrotte Aubrey Saige Pevsner Sudarshan Suresh Kumar Pinglay Davide Pini Ryan Michael Poehner Ryan Christopher Poholek Kristen Elizabeth Politis Sahini Pothireddy Nikko Brooks Price Katherine Courtney Prochownik Gianna Gabrielle Puzzo Angela Pyo Christopher James Quinn Katherine Espana Quinn Georges-Aurelien Emmanuel Quist Zein Ahmad Quraishi Rebecca Marian Rabinowitz Yonah Azriel Reback Ilana Samantha Regenbogen Karen Amanda Reitman Caroline Sara Resnick Oscar Eduardo Reyes Gaido Annie Rhee Elmer Hyunchul Rho Ryan James Rice Natalie Lauren Richmond Rachel Hannah Riegelhaupt Michael Scott Rocca Brian Adam Rodriguez Sade Niomi Rodriguez Ellen Marie Rogers Virginia Erin Rogers Eve Morgan Rosekind Leah Klein Rosenbaum Mollie Ashley Rotmensch Prithwijit Roychowdhury Iane Ruan Georgina Francis Rupp Eric Christian Ryberg Neel Rahul Sangal Marisa Margaret Santoru Marcelo Victor Sayeg Enrico M. Scarpelli

# STUDENT HONORS -

Isabelle Torii Schein Rachel Elizabeth Schnalzer Eliza Isabel Schultz Justin F. Serrano Shereen Tariq Shafi Joseph Sacks Shaikewitz Anjali Shankar Amit Kumar Sharma David Robert Shear Lucas Jhoon-Sung Shin Paul Jhi-sung Shin WooChul Shin Abigail Louise Sia Alex Marissa Silver Mitchell Dean Silver Lauren Elizabeth Snyder Lauren Avery Soll Sara Son Tanner Reeves Souza Mark Lawrence Spencer Michael Ryan St. Germain Aaron Joshua Stern Meredith Ragna Stock Henry Michael Strmac Harry William Sutherland-Foggio Sara Kimiko Suzuki Benjamin Edward Szatanek Tammie Lee Tam Camille Victoria Perez Tambunting Alice H. Tao Aniga Tasnim Cassidy Anne Taylor Jessica Louise Teng Sydney Marlene Zu You Teng Katherine Mai-khanh Tran Alison Hope Tretter Jillian Chi-Ying Tse Benjamin H. Tsoi Skyler Andrew Uhl Karin E. Umfrey Marija Vasiljevic Corey Daniel Vent Martin Ventoso Cristina Viguera Altolaguirre Anne Elyse Vipperman-Cohen Nicholas Dragomir Vujic Ellen Maxine Waddell Emily Gail Wagner Alexandra Christine Walton

Weilun Wang Simone Weiss Daniel Affelder Weissglass Samuel Kingston Weissler William David Welde Joanna Lynn Wexler Madeline Gray Wheeler David Aaron White Courtney Merrick Whitelock Allison Joy Widen Macie Taylor Wilkins Taylor Leigh Wilkins Brooke-Logann Ivory Williams Joshua Paul Williford Julianne Hagerty Wilson Zachary Andrew Winters Taylor Joanne Wiseman Rachel Ann Wolinsky Ethan Koon Woo Ryan Edward Wood Peter Bartlett Wu Bettina Wunderlich Priscilla Yan Lauren Estelle Yeh Jee Hun Yoo Patrick Joshua Young Christina B. Yuan Kwangho Yun Nicholas Thomas Zazzi Erica Lynn Zehnder Alyssa Nicole Zelicof Lingyi Zhang Xiaoyue Zhang Yi Stephanie Zhang Joy Ziyi Zhou Hannah Rose Zimmerman

# The G.W.C. Whiting School of Engineering

# Baccalaureate Candidates Graduating with General Honors

Alex G. Abramson Mohammad Salahaddin Abubaker-Sharif Yvana Daniella Ahdab Steven T. Albers Brian William Allen Anvesh Kumar Annadanam

Kalyna Leigh Apkarian Frank Salvatore Augello Andrew William Austin Jordan James Baker Mary Boules Banoub Bardia Bararpour Joshua Brad Barza Lindsay Rachel Bauer Nicholas Robert Bello Galit C. Benoni Matthew Brian Berry Rohit Bhattacharya Andrew Robert Haven Bobesink Ilana Danielle Bookner Patawut Boyonratwet Stephanie Marie Cabral Ronald William Caspers II Michael A. Cerabona Andrew Paul Ceruzzi Lucas Xavier Chambers Wesley Chun-him Chan Elaine Han Chao Stephen Sinian Chen Weitong Chen Letitia Kai-Ling Chim In Young Cho Won Kyu Choi Raeeun Chung Nicholas David Clyde Maxwell Jordan Collard Felix Xavier Contrera Landa Christopher Ryan Corbett MacIntosh Grant Cornwell Ryan Gregory Cropp Celine Angela Cua Sarah Marie Daggett Amanda Paige Darrow Victoria Maria Dawe Julia Suzanne Deutsch Maxwell Dickey Alex Raymond Diehl Andrew N. Ding Wesley John Ericksen Amanda Lynn Facklam Xin Fang Albert Kim Feeny Lindsey Rose Fernandez Rodolfo Gabriel Finocchi Christian David Followell Samuel Frishman

Tomas Adolfas Gaigalas Jason Daniel Gallagher Michael Zehua Gao Benjamin Nathaniel Glickman Roderick Samuel Go Matthew I. Gorelik Toni-rose Maico Guiriba Rohit R. Gummi Darian Hassan Hadjiabadi Karen Han Zheyi Han Bailey Grace Hannon Malvi K. Hemani Sarah Ann Hewes Kasidet Hiranniramol Ian James Hooley Anne Marie Hosler Chad Thomas Howard Riley Logan Howard Haley Ginyn Huang Jade Huang Ling Huang Jocelyn Hwang Jay Young Im Pattawan Jareonvongrayab Jun Woo Jeon **Yvonne Jiang** Ryan William Johnston Ming Kang Yu Min Kang Tucker Gordon Kearney Megan Elizabeth Kelly Matthew John Kercher Bobak Toussi Kiani Bill Hyokun Kim Kwanghyuk David Kim Gregory Matthew Kogut Renu Kondragunta Morris Haim Kraicer Kiwook Kwon Gregory Harris Langer April Min Hyae Lee Da Bin Lee Eun Sol Lee John Jinyoung Lee Aaron Lee Lerner Daniel Jacob Levenson Isaiah Reuben Levy Yanzhu Li Tanner Jonathan Liechty Jessica Shinwei Lin

Jerald Wu Liu Sherwin R. Lott Carly Susan Loveland Jennifer Lu Marc Andrew Madore Ioanne Christine Mariani Paul James Markakis Sean Davis Mattson Walter Goldston Mayfield Shaun Carey McGovern Ian Mitra McLane Saharsh Mehta Alexander Robert Monroe Jei Wook Moon Julien Laurent Pierre Morival Allison Gayle Moyer Altar Mert Munis Upas Narayan Peter John Nelson Timothy K. Ng Lisa Ni Demilade Odutayo Obayomi Mizuha Ogawa Phillip Jounghoon Oh Carlo Orlando Olcese Daniel Ruben Ovelar de Flammineis Burak Arda Ozilgen **Pavlos Pachidis** Edward Pang Jason Hyung Seok Park Dev Chandrakant Patel Baturalp Peltekoglu Anthony Joseph Pergola Michael Peven Nicholas Anthony Phillips Jacob I. Pines Berkay Polat Ariel Quintana Pranay Gundavaram Rao Jack F. Riley Kevin Patrick Rowland Mili Roy Christian M. Salera Isaiah Matthew Sampson Nate Schambach Katherine Ann Schwarz Megan Marie Schwarz Eric Montgomery Scott Alex Ryan Sher Matthew Brett Small

Alexander Andrew Spinos Edward William Staley Benjamin Joselson Strober Sandya Subramanian Hatsune May Sumi Jane Elizabeth Sussman Abraham Jian Han Tan Si Qi Tan Joshua Paul Temple Chanon John Tuntivate Sri Krishna Uppaluri Hugo Jake Uvegi Meera Rebecca Valliath Chan-Jui Wang Jiarui Wang Marni Jordyn Wasserman Lien-Chun Weng Martha Frances Whiting Ian Michael Wilkes Darren Jing Yu Wong Stephen David Wong David Haokun Wu Eric Glen Xie Jesse Xing Kyle Xiong Peter Yao Wei Hsi Yeh Eugene Jisu Yoon Frances Ann Zappone Calvin Chen Zhao Andrew Jiening Zhong Mark Andrew Zimmermann

# Engineering Programs for Professionals

# Master's Candidates Graduating with Honors

Modupe O. Adepoju Victor Hugo Aguilar-Ruiz Virginia Allen Timothy Alley Joel Robert Amato Ike Gregory Amazu Domitilo Arenas John Moses Arkoian Nathan Donald Atkinson Emily Catherine Babbitt De Nicasio Judson C. Bateman

Brian Gaines Bearden Azad Behzadi Zachary Bennett Kellin Bershinsky Shivali Bidaiah Keith Robinson Biddlecomb Holly Anne Bigelow Viki Renae Binstock Carrie Lynn Black Slawomir Grzegorz Boruch Gary Brosi Paul Stevens Burkinshaw Henry Kyle Bygott John A. Carattini Christa Cody Carlowe Osbaldo Castellanos Chi Pang Chan Derek Garvey Chan Jennifer King-Cheung Chan Jonathan Kevin Chang John Richard Chase Thomas Chavez Eric Cheung Nicolas Clote Hedy Joan Cohen Gary Crum Rodrigo Leonardo Cunha Peter T. D'Agostino Alvin Joseph D'Angelo Matthew Edward Davis Michael Alan de Lamare Morgan Andrew Dennis Peter Kari Denny Latha Dhananjayan Anthony Vincent DiCamillo Jeremy Curtis Diepenbrock Maria Duhovich Jason Lee Durst Fevzi Matthew Ekinci Christopher Bruce Ensor Lauren Christine Epple Jonathan Paul Eshbaugh **Richard Allen Faust** Gregory Robert Fleischer Maren Knepper Frisell Alan Fu Nicolas Eric Gagliolo Ian M. Gervasi Jamie M. Gonsoulin **Richard Mark Gouldie** Jason Aaron Griffith

Christopher James Grimm Mark Arthur Haas Jeffrey Allen Hahn **Riley Hammerschmidt** Robert Lovette Harlow John David Harris James Edward Harrison John Harvey Thomas Keith Harward Brittany Elizabeth Haun Steven Andrew Hechtman Ryan Gregory Hedges Michael Heffernan Brian C. Henderson Aaron Lamar Henry Jill Elizabeth Henry Mary I. Holman Matthew David Hostetter **Emerald Huang** Lawrence James Humpal Gerald Kyaw-Soe Hung Mahmoud Jardaneh Allison Walthall Johnson Eric Brian Jones Waldon Willard Jue Christopher D. Kalvelage Alexey Karshakevich Joshua Philip Kelm Sadnima Nowrin Khan Phila Kim Edward Kimbrough Matthew Thomas Kirkley Steven Richard Kline Greta Bonny Kodan Michal Krasel Keith Francis Kresge Christine F. Lai Ashley Nguyet-minh Lambers Daniel Edwin Lawrence Olivia J. Lawson Min Geun Lee Paul Yongjun Lee Timothy Walter Leisy William Michael Leonard Shinan Li Hsuan Yi Liao John Lucas Michelle S. Lutz William Lyons Gilad Magen Scott A. Manning

# STUDENT HONORS -

Joel Mansfield Amir Daniel Manteghi Cadence Anna Martin Erin A. Mcauliffe **Richard Mears** Alexander Joseph Messer James Mathew Mette Sarah Morgan Leigh A. Murphy Eric Neely Ryan P. Niemic Clinton Joseph Norris Michael Scott Oakes Jonathan M. Oben Folashade T. Odumesi Eric Olsson Matthew Ontiveros Brandi Casey Opland Sean Deniz Ozdemir Thomas Richard Pantano Linda C. Parsons Andrey V. Patrov Shawn L. Pennington Simon P. Plunkett Susana Porges David Pudwill John Robert Quenzer Rafael Raul Quintero Michael Thomas Raines Kimberly A. Rhoten Jeffrey Dale Ritchie Pedrito Rivas Rodulfo Russell Mark Rohring Ryan Ropp John Carl Rosser Jeremy Rutter Kimberly Cocoros Sacra Ruchir Bharat Saheba Anton Sakharov Edmundo Manteca Samaniego Jessica Kahle Seward William Shaeffer Glenn Douglas Shanks Michael Shaw David A. Sheppard Jonathan Andrew Sholtis Jacob Shriver Chad David Slick Martha Elaine Smith Ryan James Soldin Barrett Preston Straub

Brian Straub Michael Patrick Sullivan Thomas E. Summers Gregory Switzer Allan Sword Dominique Danielle Taylor Brian Todd Thrall Minal Trehan Brian Turek Ernest Randolph Turner Chioma Ukanwa Dhaval M. Vyas Erich Walker Justin Aric Walker Laura Marie Walker Kari Webster Richard E. Welch Benjamin David Werner Ryan Hap Whelpley Alexis Wickwire Benjamin Thomas Wilcox Ronald Shelton Williams Timothy James Williams Andrew Wimmer Paul F. Winslow Sacha Berthe Wolff Stephen Hoi-but Wong Benjamin Wood Wade R. Woodall Michael T. Yanavitch Calinda M. Yew Oleg B. Yurchak Jason Zonca

The Carey Business School

### Baccalaureate Candidates Graduating with General Honors

Ann Marie Brasile Mejac David Broner Thomas Willis Chapman Jr. Hongyi Chen Iun Yi Chen Matthew Sean Dickenson Xiaolu Fu Leesha Jim Theresa M. Marshall Lisa Carmela Meissinger Pongpatchara Monthonsophon Zachary Kivi Rothblatt Gerald Rutman Lin Si Sean Spitzer Karen S. Stevenson Eliyahu Eliezer Werdesheim Zhimin Yan Diana A. Zabalovici

#### School of Education

# Baccalaureate Candidates Graduating with General Honors

Jorge Eduardo Alma Ira M. Click Byron J. Conaway Mark W. Cummings Maryann P. Foxwell James A. Harper Jr. Bennie H. Henderson Jr. Lloyd R. Ingerson Jr. Reginald F. Johnson Sr. Brayan Bruce Krepley Vendette T. Parker Mark E. Person Keith James Phillips Michael Alan Spochart Jeremy Ryan Tippett Michael S. Wilson

The Zanvyl Krieger School of Arts and Sciences

# Graduating with Departmental Honors

Benjamin Aaron Ackerman, Public Health Studies Akriti Ahuja, Writing Seminars Elizabeth Damilola Akinsoji, Public Health Studies Elizabeth Miller Arenz, History of Art Olivia Clark Babb, Writing Seminars Karen Elizabeth Baddoura, Public Health Studies Ross William Barber, Chemistry Alexandra Camilla Barbera, Writing Seminars Benjamin Auguste Barsky, Public Health Studies Sunakshi Bassi, Political Science Ryan Frankie Bender, History of Art Ryan Keates Blake, English Wiebke Blaszcyk, Writing Seminars Kathryn Joyce Botto, East Asian Studies; Sociology; International Studies Julia Elise Broach, Anthropology Ali Browder, Spanish Isabelle Livingston Hale Burden, English; Writing Seminars Michaela Lee Burns, Writing Seminars Mustafa Anees Buxamusa, Molecular and Cellular Biology Sunny Shengyuan Cai, East Asian Studies Yue Cao, Neuroscience Michael Murray Caplan, Neuroscience Caitlyn Elizabeth Cennamo, Molecular and Cellular Biology Kelsey Elizabeth Champagne, English; French Ivan Chen, Molecular and Cellular Biology Ruth Yo-Ron Chen, English Joseph Ryan Connors, Molecular and Cellular Biology

# - Student Honors

Herty Junior Cortez Diaz, Romance Languages Carly Marie Cox, Writing Seminars; Spanish Bryn Alexandra Cross, Neuroscience Kevin Joseph Cryan, History Ross Daniel Cummings, Writing Seminars Ryan A. Cunningham, Writing Seminars B'lane S. Daly, Cognitive Science Anita Dam, Classics Peranat Dayananda, Physics Adam R. Dec, Earth and **Planetary Sciences** Gabriel Demeter Denis, History John Francis Donelan, *History* of Art; Economics Sean J. Donohue, Public Health Studies William Mark Dorman, History; Spanish; Latin American Studies Robin Du, Molecular and Cellular Biology; Neuroscience Ahmed Sayed Elsayyad, Public Health Studies Lauren Elizabeth Evans, English; Spanish Laura Miranda Ewen, English Alessandra Felloni, International Studies Edgar Allen Fiallos, Cognitive Science Andrea Felice Fields, Writing Seminars Sophia Elizabeth Fleming-Benite, Cognitive Science Jessica Xinyi Fong, International **Studies** Elizabeth Lauren Fortson, Global Environmental Change and Sustainability; East Asian Studies Louis Shipley Foxwell, Writing Seminars Anne Alastair Gallay, Writing Seminars Ryan Alexander Gallo, Neuroscience Danielle L. Gilbert, Archaeology; English

Emily Kate Glickman, Writing Seminars Sarah Savieira Goodman, Cognitive Science Jeffrey M. Granja, Biophysics; Chemistry Andrew Raab Griswold, Chemistry Arie Abraham Grunberg, Public Health Studies Noah Guiberson, Neuroscience Saksham Gupta, Neuroscience Tai Kyung Sohn Hairston, Neuroscience Margaret L. Hashmall, Romance Languages Parviz Daniel Pastor Hejazi, Molecular and Cellular Biology Malka Gittel, Herman, Writing Seminars Evan Joshua Hess, Neuroscience; Molecular and Cellular Biology Michelle Ann Ho, Writing Seminars Amanda Fay Hobson, International Studies Mir Shanaz Hossain, Neuroscience Victoria Huang, Molecular and Cellular Biology Peter James Huether, Global Environmental Change and Sustainability Hannah Jacqueline Hughes, Physics Ki Hoon Hur, International Studies Kelley Elizabeth Hussey, Public Health Studies Gabrielle Augusta Kasper Iturralde, Writing Seminars Pembroke Nash Jenkins, Writing Seminars Aurora Congxi Jin, Cognitive Science Melissa Mary Jones, Molecular and Cellular Biology Robert Sylvain Kahn, Physics Meghana Kalavar, Public Health Studies

Peter Nikolaevich Kalugin, Molecular and Cellular *Biology; Mathematics* Muska Kamran, History Venetia Aikaterini Karamitsou, Mathematics Andrew Gregory Karns, Romance Languages Lindsay Claire Kiernan, Writing Seminars Woojin Kim, History Yoo Jin Kim, Neuroscience Margaret Elizabeth Kneifel, Neuroscience Tyler Zarus Knowlton, Cognitive Science Stefan Kouumdjiev, Economics Amanda Elizabeth Krosche, Molecular and Cellular Biology Trisha Deepak Lala, Neuroscience Kelly Lampayan, Physics Mackenzie Gabrielle Lane, Writing Seminars Joshua Aaron Langfus, Cognitive Science Ardian Latifi, *Chemistry*; Spanish Tara Brooke Lawrence, Writing Seminars Grant Arthur Lease, Writing Seminars Audrey Christine Leasure, Neuroscience Seol A Lee, Writing Seminars Sun Joo Lee, Molecular and Cellular Biology Victoria Alexandra Lee, Political Science; History of Art Kathleen Margaret Lewis, Writing Seminars Jenna Lauren Link, Writing Seminars Lauren Michelle Lipshutz, Neuroscience Frances Ford Loeb, Psychology Michael Thomas LoPiano, Italian; History Samantha Yvonne Lux. Molecular and Cellular Biology Peace C. Madueme, English

Emily Lynn Maling, Chemistry

Cecilia M. Mancuso, Writing Seminars; English Rebecca Paige Marcus, Neuroscience Grace Anja Marshall, Public Health Studies Molly Chisholm Martell, Archaeology William Homer Mason, Writing Seminars Alexandre Eliot Mason-Sharma, International Studies Andrea Hope Massaro, Writing Seminars Ian Mitra McLane, Romance Languages Ian Hunter McMurray, Writing Seminars Emily Francis Mendez, Neuroscience Jorge Aurelio Menendez, Cognitive Science Aditya Mithal, Neuroscience Matthew Paul Myers, Writing Seminars; English Basmah Yasser Nada, International Studies Christina Soo-Jung Nam, Cognitive Science; History of Art Kathleen P. Naymon, Writing Seminars Stephanie Boey Ng, Chemistry Katarina Thuy-Dan Nguyen, Molecular and Cellular Biology Florence Valentina Noorinejad, English Mackenzie Bernice Norman. Neuroscience Georges Obied, Physics Norah Starkston Oles, Molecular and Cellular Biology; Neuroscience; Spanish Zoe Loretta Ovans, Cognitive Science Theodore Blake Owen, Political Science Eleni Katherine Padden, Writing Seminars Jessica Hyunji Park, Neuroscience Jun Hyun Park, Molecular and Cellular Biology; Neuroscience

# STUDENT HONORS -

Joshua Park, Neuroscience Sungbae Paul Park, Anthropology Kishan H. Patel, Chemistry Sarshan Rubintheran Pather, Molecular and Cellular Biology Victoria Faillace Perez, Cognitive Science Aubrey Saige Pevsner, Writing Seminars Elizabeth Gordon Pfeffer, International Studies; Writing Seminars Sudarshan Suresh Kumar Pinglay, Molecular and Cellular Biology Davide Pini, Economics Ryan Christopher Poholek, Writing Seminars Sahini Pothireddy, Molecular and Cellular Biology Nikko Brooks Price, Political Science Gianna Gabrielle Puzzo, History of Art Angela Pyo, International Studies Katherine Espana Quinn, Writing Seminars; English Yonah Azriel Reback, History Karen Amanda Reitman, International Studies; French Oscar Eduardo Reyes Gaido, Molecular and Cellular Biology Annie Rhee, Cognitive Science Ellen Marie Rogers, International Studies Eve Morgan Rosekind, History of Art Leah Klein Rosenbaum, Writing Seminars Mollie Ashley Rotmensch, Writing Seminars Georgina Francis Rupp, Writing Seminars Eric Christian Ryberg, Chemistry; Earth and Planetary Sciences Nicole Alexandra Salevitz, History of Art Jenna Lynn Santoro, History of Art Isabelle Torii Schein, Writing Seminars

Rachel E. Schnalzer, Political Science; English Joseph Sacks Shaikewitz, History of Art Katie Elizabeth Silva, Neuroscience Charlotte Angela Sneath, History of Art Sara Son, Writing Seminars; English Mark Lawrence Spencer, Neuroscience Harry William Sutherland-Foggio, *History of Science*/ Medicine/Technology Sara Kimiko Suzuki, Molecular and Cellular Biology Camille Victoria Perez Tambunting, Writing Seminars; Spanish Alice H. Tao, Molecular and Cellular Biology Aniga Tasnim, Neuroscience Jillian Chi-Ying Tse, Global Environmental Change and *Sustainability* Skyler Andrew Uhl, Molecular and Cellular Biology Rebeca E. Vergara Greeno, Molecular and Cellular Biology; Romance Languages Cristina Viguera Altolaguirre, Neuroscience Anne Elyse Vipperman-Cohen, Behavioral Biology Paul Thomas Vozzo, English Nicholas Dragomir Vujic, Mathematics Ellen Maxine Waddell, Writing Seminars Emily Gail Wagner, Physics Daniel Affelder Weissglass, Physics Madeline Gray Wheeler, Writing Seminars Macie Taylor Wilkins, Spanish Julianne Hagerty Wilson, Writing Seminars Zachary Andrew Winters, English Hon-Wai Wong, Writing Seminars

Peter Bartlett Wu, Molecular and Cellular Biology Bettina Wunderlich, Molecular and Cellular Biology Priscilla Yan, Neuroscience Gloria You, History of Art Alyssa Nicole Zelicof, Anthropology Yi Stephanie Zhang, Neuroscience Hannah Rose Zimmerman, Neuroscience

### Graduates from the Honors Program in Humanistic Studies

Maria Hannah Callahan, *B.A.* Kelsey Elizabeth Champagne, *B.A.* Liana Chaney Sanders, *B.S.* 

# The G.W.C. Whiting School of Engineering

### Baccalaureate Candidates Graduating with Departmental Honors

Alex G. Abramson, Chemical and Biomolecular Engineering Mohammad Salahaddin Abubaker-Sharif, Biomedical Engineering Yvana Daniella Ahdab, Mechanical Engineering Steven T Albers, Biomedical Engineering Brian William Allen, Biomedical Engineering Anvesh Kumar Annadanam, Biomedical Engineering Kalyna Leigh Apkarian, Biomedical Engineering Jordan James Baker, Chemical and Biomolecular Engineering Mary Boules Banoub, Biomedical Engineering Joshua Brad Barza, Environmental Engineering Lindsay Rachel Bauer, Biomedical Engineering Nicholas Robert Bello,

Biomedical Engineering

Galit Carol Benoni, Chemical and Biomolecular Engineering Matthew Brian Berry, Applied Mathematics and Statistics Rohit Bhattacharya, Biomedical Engineering Andrew Robert Haven Bobesink, Environmental Engineering Ilana Danielle Bookner, Applied Mathematics and Statistics Patawut Bovonratwet. Biomedical Engineering Stephanie Marie Cabral, Biomedical Engineering Ronald William Caspers II, Mechanical Engineering Michael A. Cerabona, Computer Engineering Michael A. Cerabona, Electrical Engineering Andrew Paul Ceruzzi, Mechanical Engineering Lucas Xavier Chambers, Chemical and Biomolecular Engineering Wesley Chun-him Chan, Biomedical Engineering George Major Chen, Biomedical Engineering Han-Wen Chen, Computer Engineering Han-Wen Chen, Electrical Engineering Stephen Sinian Chen, Computer Science Weitong Chen, Chemical and Biomolecular Engineering Letitia Kai-Ling Chim, Materials Science and Engineering Akshay Chitturi, Biomedical Engineering In Young Cho, Biomedical Engineering Won Kyu Choi, Chemical and Biomolecular Engineering Vamsi Chunduru, Computer Science Nicholas David Clyde, Biomedical Engineering Maxwell Jordan Collard, Biomedical Engineering Christopher Ryan Corbett, Biomedical Engineering

MacIntosh Grant Cornwell, Biomedical Engineering Ryan Gregory Cropp, Computer Engineering Ryan Gregory Cropp, Computer Science Celine Angela Cua, Environmental Engineering Sarah Marie Daggett, **Biomedical Engineering** Amanda Paige Darrow, Environmental Engineering Victoria Maria Dawe, Chemical and Biomolecular Engineering Julia Suzanne Deutsch, *Computer Engineering* Maxwell Dickey, Computer Science Alex Raymond Diehl, Biomedical Engineering Andrew N Ding, Electrical Engineering Diane Theresa Duros, Computer Science Wesley J. Ericksen, Mechanical Engineering Amanda Lynn Facklam, Biomedical Engineering Xin Fang, Chemical and Biomolecular Engineering Albert Kim Feeny, Biomedical Engineering Lindsey Rose Fernandez, **Biomedical Engineering** Rodolfo Gabriel Finocchi, Biomedical Engineering Christian David Followell, *Biomedical Engineering* Samuel Frishman, Mechanical Engineering Tomas Adolfas Gaigalas, Applied Mathematics and **Statistics** Tomas Adolfas Gaigalas, Biomedical Engineering Jason Daniel Gallagher, Computer Engineering Jason Daniel Gallagher, Electrical Engineering Michael Zehua Gao, Environmental Engineering Benjamin Nathaniel Glickman, Computer Science

Roderick Samuel Go, Environmental Engineering Toni-Rose Maico Guiriba, Materials Science and Engineering Rohit R Gummi, Applied Mathematics and Statistics Rohit R. Gummi, Biomedical Engineering Darian Hassan Hadjiabadi, Biomedical Engineering Zhevi Han, Biomedical Engineering Bailey Grace Hannon, Mechanical Engineering Malvi Kulin Hemani, Biomedical Engineering Anne Marie Hosler, Chemical and Biomolecular Engineering Meghan Johanna Hotz, Chemical and Biomolecular Engineering Chad T Howard, Electrical Engineering Riley Logan Howard, *Biomedical Engineering* Haley Ginyn Huang, Biomedical Engineering Jade Huang, Computer Science Ling Huang, Chemical and Biomolecular Engineering Jocelyn Hwang, Environmental Engineering Jay Young Im, Biomedical Engineering Daniel A. Jalova, Computer Science Pattawan Jareonvongrayab, Applied Mathematics and **Statistics** Pattawan Jareonvongrayab, Biomedical Engineering Jun Woo Jeon, Chemical and *Biomolecular Engineering* Yvonne Jiang, Biomedical Engineering Yvonne Jiang, Computer Science Ryan William Johnston, Mechanical Engineering Austin David Jordan, **Biomedical Engineering** Ming Kang, Biomedical Engineering

Yu Min Kang, Biomedical Engineering Gabriel Kaptchuk, Computer Science Venetia Aikaterini Karamitsou, Applied Mathematics and **Statistics** Tucker Gordon Kearney, Mechanical Engineering Matthew John Kercher, Biomedical Engineering Bobak Toussi Kiani, Mechanical Engineering Bill Hyokun Kim, Computer Engineering Bill Hyokun Kim, Electrical Engineering Kwanghyuk David Kim, **Biomedical Engineering** Min Goo Kim, Chemical and Biomolecular Engineering Gregory Matthew Kogut, **Computer Science** Renu Kondragunta, Biomedical Engineering Morris Haim Kraicer, Computer Engineering Kiwook Kwon, Chemical and Biomolecular Engineering Gregory Harris Langer, Mechanical Engineering April Min Hyae Lee, Biomedical Engineering Bongju Lee, Applied Mathematics and Statistics Grace Lee, Electrical Engineering Eun Sol Lee, Applied Mathematics and Statistics John Jinyoung Lee, Biomedical Engineering John Jinyoung Lee, Computer Science Tuvia David Lerea, Computer Science Daniel Jacob Levenson, **Biomedical Engineering** Isaiah Reuben Levy, Chemical and Biomolecular Engineering Rachel Misako Lew, Environmental Engineering Lilly Li, Applied Mathematics and **Statistics** Jerald Wu Liu, Computer Science

Sherwin R Lott, Applied Mathematics and Statistics Carly Susan Loveland, Biomedical Engineering Albert Kang Lu, Biomedical Engineering Jennifer Lu, Chemical and Biomolecular Engineering Marc Andrew Madore, Biomedical Engineering Joanne Christine Mariani, Applied Mathematics and **Statistics** Sean Davis Mattson, Biomedical Engineering Walter Goldston Mayfield, Mechanical Engineering Shaun Carey McGovern, Chemical and Biomolecular Engineering Ian Mitra McLane, Electrical Engineering Alexander Robert Monroe, Biomedical Engineering Alexander Robert Monroe, **Computer Science** Julien Laurent Pierre Morival, Biomedical Engineering Allison Gayle Moyer, Biomedical Engineering Altar Mert Munis, Chemical and Biomolecular Engineering Upas Narayan, Computer Science Peter John Nelson, Biomedical Engineering Timothy K Ng, Computer Engineering Lisa Ni, Biomedical Engineering Demilade Odutavo Obayomi, Mechanical Engineering Mizuha Ogawa, Biomedical Engineering Phillip Jounghoon Oh, Biomedical Engineering Carlo Orlando Olcese, Computer Science Daniel Ruben Ovelar de Flammineis, Electrical Engineering Burak Arda Ozilgen, Biomedical Engineering Pavlos Pachidis, Chemical and Biomolecular Engineering

# STUDENT HONORS -

Edward Pang, Applied Mathematics and Statistics Jason Hyung Seok Park, Biomedical Engineering Dev Chandrakant Patel, Mechanical Engineering Anthony Joseph Pergola, Electrical Engineering Michael Peven, Environmental Engineering Nicholas Anthony Phillips, *Biomedical Engineering* Megan Giannina Pino, Biomedical Engineering Berkay Polat, Electrical Engineering Ariel Quintana, Environmental Engineering Pranay Gundavaram Rao, Biomedical Engineering Jack F. Riley, Mechanical Engineering Kevin Patrick Rowland, Computer Engineering Kevin Patrick Rowland, Electrical Engineering Mili Roy, Applied Mathematics and Statistics Christian M Salera, Applied Mathematics and Statistics Christian M. Salera, Chemical and Biomolecular Engineering Isaiah Matthew Sampson, Civil Engineering Nate Schambach, Biomedical Engineering Katherine Ann Schwarz, Environmental Engineering Megan Marie Schwarz, Chemical and Biomolecular Engineering Eric Montgomery Scott, Chemical and Biomolecular Engineering Stephen Seo, Computer Science Alexander Andrew Spinos, Mechanical Engineering Edward William Staley, Mechanical Engineering Benjamin Joselson Strober, Biomedical Engineering Sandya Subramanian, Applied Mathematics and Statistics

Sandya Subramanian, Biomedical Tony Jufeng Zheng, Biomedical Engineering Hatsune May Sumi, Chemical and Biomolecular Engineering Jane Elizabeth Sussman, Electrical Engineering Abraham Jian Han Tan, Materials Science and Engineering Si Qi Tan, Chemical and Biomolecular Engineering Chanon John Tuntivate. Chemical and Biomolecular Engineering Sri Krishna Uppaluri, Mechanical Engineering Hugo Jake Uvegi, Materials Science and Engineering Meera Rebecca Valliath, Chemical and Biomolecular Engineering Jiarui Wang, Biomedical Engineering Marni Jordyn Wasserman, Applied Mathematics and Statistics Lien-Chun Weng, Chemical and Biomolecular Engineering Martha Frances Whiting, Mechanical Engineering Ian Michael Wilkes, Computer Science Ian Michael Wilkes, Mechanical Engineering Stephen David Wong, Civil Engineering David Haokun Wu, Biomedical Engineering Eric Glen Xie, Biomedical Engineering Kyle Xiong, Biomedical Engineering Peter Yao, Biomedical Engineering Wei Hsi Yeh, Chemical and Biomolecular Engineering Eugene Jisu Yoon, Chemical and Biomolecular Engineering Frances Ann Zappone, **Biomedical Engineering** Bofeng Zhang, Biomedical Engineering Calvin Chen Zhao, Biomedical Engineering

Engineering Vivian Zhou, Biomedical Engineering Mark Andrew Zimmermann, Applied Mathematics and **Statistics** 

\*Please note that some students may not be listed as receiving Departmental Honors because this program had to go to press before receiving notification from the departments.

# CANDIDATES FOR DEGREES IN ORDER OF PRESENTATION

# SCHOOL OF EDUCATION

#### **Doctors of Education**

Kyena E. Cornelius, Special Education. The Effects of Specialized Mentor Preparation and Coaching for General Education Teacher Mentors Supporting Early Career Special Education Teachers. Terrell Lynn Doane, Special Education. The Effects of Teaching Subitizing on the Subitizing and Addition Skills of Kindergarten Students with Math Deficits. Terry Lynn Williams Edmonson, Teacher Development. An Evaluation of the Just Words Intervention for High School Students Reading Below Grade Level: Do

Selected Brain Targeted Teaching Strategies Make a Difference? Dawn Wyndrif Fraser, *Special* 

Education. Using a Virtual Reality Environment to Train Special Educators Working with Students with Autism Spectrum Disorders to Implement Discrete Trial Teaching.

Amy H. Glass, *Teacher Development*. Minding the Gap: An Examination of Educator's Perceptions about Cyberbullying in U.S. Schools.\*\*

Sara D. Hooks, *Special Education.* The Effects of Training Pre-Kindergarten Teachers to Use Self-Management Strategies to Increase At-Risk Students' Opportunities to Respond to Literacy Prompts.

Kristine E. Larson, *Special Education*. An Investigation of the Association Between Teachers' Use of Culturally Responsive Strategies, Culturally Responsive Teaching Self-Efficacy, and Teachers' Ability to Manage Student Behavior.

Sarah Ann Nagro, Special Education. The Effects of Guided Video Analysis on Teacher Candidates' Reflective Ability and Instructional Skills during Field Experiences including Students with Disabilities. Aaron E. Parsons. Teacher Development. A Comparison of Prone and Supine Restraint Used for Crisis Intervention in a Non-Public Special Education Setting.\*\* David Jay Stone, Teacher

Development. Developing a Means of Comparing Expenditures at Five Nonpublic Special Education Programs in Baltimore, Maryland.\*\* Lindsay M. Sullivan, Teacher

Development. The Effects of Embedded Considerate Multimedia Features on Digital Text Comprehension Among Second and Third Grade Students of Different Reading Abilities.

R Christopher Swanson, Special Education. The Effects of a Computer-Based Social Skills Intervention on Secondary Students with Autism.

Mark J. Trexler, *Special Education.* A Case Study Analysis About the Use of a Digital Portfolio for Secondary Students with Mild to Moderate Disabilities in an Urban Inclusive High School Classroom. THE PEABODY CONSERVATORY OF MUSIC

# Doctors of Musical Arts

Zhangyi Chen, Composition Sean Patrick Doyle, Composition Lillian Renee Green, Viola Preston Q. Hawes, Violin Trent A. Hollinger, Wind Conducting Jina Kim, Piano Young Eun Lee, Violoncello Jeremy Glenn Lyons, Guitar Matthew Michael Moore, Tuba Michelle Ann Rakers, Wind Conducting

#### SCHOOL OF NURSING

#### Doctors of Nursing Practice

Sarah Elizabeth Barnes. Improving the Informed Consent Process at a Community Hospital in Northern California.\*

Mary L. Blankson. Increasing Identification and Treatment Referral of Individuals with Hepatitis C in the Primary Care Setting through Clinical Dashboards.

Karen Butler-Colbert. Utilizing Resting Metabolic Rate to Individualize Plans for Sustainable Weight Loss Among Women Aged 30-59. Jamie Cherup. Exercise as

Prescriptive Therapy in MS. Rachael A. Crickman.

Implementing a Hazardous Drug Control Program.

Peggy Elaine Daw. Program Evaluation for the Nurse Support Program II.

Nirmeen Isaac Felimban. Standard Competency Based Orientation.

Nicole Angelique Gonzaga. Improving Quality of Care in Patients in Cesarean

Section Delivery During Spinal Anesthesia. Kirsten Allison Hickerson. Improving the Performance of Nurse Preceptors. Melissa Jones-Holley. Antibiotic Use in the Management of Upper **Respiratory Tract Infections** in the Urgent Care Setting. Lorenzo Timothy Nava. Nutrition Interventions to Address Metabolic Syndrome in the Navajo. Kara N. Platt. "P2P CARE" Program: A Comprehensive Model for Caring for Women Using Substances While Pregnant. Deborah Jean Poerio. The Increasing Prevalence of Preschool Children Exhibiting Disruptive Behaviors. Amber Nicole Richert. **Empowering Change:** Improving Self-Management Among Food-Insecure Diabetics. Erika Leigh Setliff. Evaluation of Intended and Unintended Consequences of Technology Implementation. Lisa M. Sgarlata. Screening of Geriatric Behavioral Health Issues in the Emergency Room Setting. Brenda Kay Shelton. Implementing the Surviving Sepsis Campaign "First Six Hours Bundled Interventions" in an Ambulatory Clinic for Patients with Hematologic Malignancies.\* Vanessa Velez. An Evidence-Based Preceptor Program to Improve Nurse Retention and Quality of Care. Jenelle Mecija Zambrano. Improving Communication within the Neonatal Interdisciplinary Team.

\*Degree conferred August 22, 2014 \*\*Degree conferred December 30, 2014

#### DOCTORAL DEGREES -

### Doctors of Philosophy

Yvonne Yarkor Commodore-Mensah. Cardiovascular Disease Risk and the Association with Acculturation in West African Immigrants in the United States.\*\*

- Grace Wing Ka Ho. Differentiating Physical Discipline from Abuse: A Comparison of Chinese American Mothers and Mandated Nurse Reporters of Abuse.\*\*
- Jeanne Marie Murphy. A Test of an Intervention to Improve PAP Testing for Women Living with HIV.\*
- Katia Garcia Reinert. The Role of Religious Involvement in the Relationship between Early Traumatic Stress and Health Outcomes among Adventist Adults.\*

# BLOOMBERG SCHOOL OF PUBLIC HEALTH

# Doctors of Public Health

- Deana Marie Around Him, *Population, Family and Reproductive Health.* Depressive and Anxiety Symptoms in Pregnancy: Associations with Maternal Characteristics and Infant Birth Weight among American Indians in the Northern Plains.\*
- Maria Chung-Tze Au, International Health. Consumption of Sugarsweetened Beverages among California Adults: Role of Neighborhood Ethnic Density, Acculturation, and Disparities.\*
- Robert James Borotkanics, *Environmental Health Sciences.* On the Use and Future of Alternative Testing Strategies in Regulatory Toxicology.\*\*

Cheng-Chuan Chang, *Health Policy and Management.* Consumer Experience with the Quality of Primary Care: A Comparison between Community and Hospital Settings in Taiwan.\*

- Li Chien Chien, *Health Policy* and Management. Trauma Care in Taiwan—An Epidemiological Analysis of Trauma Hospitalization and Transfer.\*
- Chyuan Chou, *Health Policy and Management.* Current Oral Health Status and Practice in Taiwan and Their Association with Quality of Life and Tooth Loss.\*
- Laura Kressner Cobb, *Epidemiology.* Measuring the Obesogenic Food Environment.
- Hanan Hamzah Edrees, *Health Policy and Management.* Second Victims and Peer Support Programs in Maryland Hospitals: A Study of Perceived Need for Organizational Leaders.\*\*
- Gina Ray Hawley, *Health Policy* and Management. Timely Discharge Factors within a Neurosciences Hospital Department.\*
- Ching-Chi Hsu, *Health Policy* and Management. The Association between Length of Stay, Medical Expenses, and Psychiatric Patient Dumping—A Study of Provider Competition under Global Budgeting in Taiwan.
- Memuna Ifedirah, *Health Policy and Management.* Perceptions of Care in the Medicare Program: An Analysis Comparing Experiences of Care of Medicare Beneficiaries with a Diagnosis of Diabetes Enrolled in Traditional

Advantage. Nasreen Jessani, International Health. Academic Knowledge Brokers in Kenya: A Mixed Methods Study of Relationships, Characteristics and Strategies for Informing Public Health Policy. Elizabeth Symonds Kasameyer, Environmental Health Sciences. Occupational Allergy and Asthma Among Laboratory Animal Workers: The Role of Respiratory Protection.\*\* Chadd Kenneth Kraus, Health

Medicare and Medicare

Policy and Management. Palliative Medicine Competency Education in Emergency Medicine Residency Training: A Survey of Emergency Medicine Education Leaders.\*

- Sana Kauser Malik, International Health. A Balanced Scorecard for Assessing the Quality & Provision of Health Services in UNHCR Refugee Camps.
- Babak Mohit, *Health Policy and Management.* A Costeffectiveness Approach to Calculating SROI for Integrated and Interoperable Health and Social Services in a Local Health and Human Services Department.
- Jennifer Bronwyn Nuzzo, *Epidemiology.* Post-arrival Screening and Treatment of Foreign-born Individuals for Tuberculosis and Latent Tuberculosis Infection.\*
- Mieka Jasmine Smart, *Mental Health.* Evaluation of Environmental Strategies for Preventing Alcohol Problems on United States College Campuses.
- Brad Smith, *Health Policy and Management*. Hypertension

Management in the Republic of Trinidad and Tobago: A Feasibility Study on the Use of Home Blood Pressure Monitors and an Automated Telephone Information System.

Hannah L. Tappis, International Health. Strengthening Afghanistan's Health System to Save Women's Lives: Achievements and Gaps in Scale-up of Safe Delivery Services.\*

# Doctors of Philosophy

Katharine Anastasia Allen, International Health. A National Burden of Disease Study for the United Arab Emirates (UAE): Quantifying Health Differentials Between Nationals and Migrants.\* Poojitha Balakrishnan, *Epidemiology*. Determinants of Blood Pressure Trajectories from Midlife to Older Age: The Atherosclerosis Risk in Communities (ARIC) Study. Julia B. Baller, *Health Policy* and Management. Financing School-based Health Services for Children with Disabilities: The Intersection between Medicaid and the Individuals with Disabilities Education Act. Maxwell A Barffour, International Health. Interactions Between Malaria and Iron or Vitamin A Status in Rural Zambian Children. Frances Rabusa Belmonte, Environmental Health Sciences. The Role of

Sciences. The Role of Epidermal Growth Factor Receptor 2 Overexpression on Attenuating Reactive Oxygen Species in the Heart.\*

<sup>\*\*</sup>Degree conferred December 30, 2014

Andrea Suzanne Freyer Dugas,

Katrina A. Berg, Health, Behavior and Society. Treatment Seeking Behaviors Among Caretakers of Children with Suspected Malaria in Eastern Uganda.\*\*

- Aarushi Bhatnagar, International Health. Determinants of Motivation and Job Satisfaction among Primary Health Workers: Case Studies from Nigeria and India\*
- Benjamin Jacob Blumberg, Molecular Microbiology and Immunology. Microbiome Dependent and Independent Determinants of Plasmodium Infection in the Mosquito Anopheles gambiae.

Jessika Hattie Nicole Bottiani, Mental Health. (In) Equitable School Climate.\*

Tammy McLoughlin Brady, Clinical Investigation. Pediatric Hypertension— Insights into Etiology, Diagnosis and Progression

of Target Organ Damage.\* Qiana Latoya Brown, Mental Health. Tobacco Outlet Density, Proximity, and Tobacco Use Among African American Young Adults in Baltimore City: Mechanisms of Action.\*\*

Christine Anne Buttorff, Health Policy and Management. The Impact of a Value-based Insurance Design on Those with Multiple Chronic Conditions.\*\*

Amelia Elizabeth Buttress, Health, Behavior and Society. The Chemical Lives of "Children".\*\*

Michael Justin Byron II, Health, Behavior and Society. Improving Implementation of Smoke-free Laws in Lowand Middle-income Countries: Findings from

Qualitative Research in Bogor, Indonesia.\*\* Ricardo Castillo Neyra, *Epidemiology.* The Role of Domestic Animals in the Small-scale Ecology of Triatoma Infestans, a Vector of Chagas Disease.\* Dana Cernigliaro, Health, Behavior and Society. **Understanding Factors** Associated with Pregnancy Desire, Experience and Care among Female Sex Workers Living with HIV in Santo Domingo, Dominican Republic.\*\* Rachel P. Chase, International Health. "You Don't Really Have Anything to Give But Your Word and a Faulty Memory": U.S. Military Veterans and Undocumented Traumatic Brain Injuries. Lian-yu Chen, Mental Health. Trends, Correlates and Patterns of Concurrent Substance Use of Prescription Stimulants in the United States.\* Megan Linnea Clayton, Health, Behavior and Society. A Oualitative Investigation of the Role of Food Workers in U.S. Food Safety. Kisha Ivonne Coa, Health, Behavior and Society. The Salience of Cancer in the Dietary Behaviors of Prostate Cancer Survivors.\*\* Elizabeth Claire Coleclough, Health, Behavior and Society. Capturing the Client Perspective in an Organizational Needs Assessment: A Project to Enhance 'Trauma Informed Care' (TIC) in a Homeless Health Clinic. Jonathan Bayne Coulter, Environmental Health Sciences. Novel Roles

for Ten-eleven Translocation1(TET1)

5-Methylcytosine Dioxygenase in the Cellular Response to Stress.\* Christine M. Craig, Molecular Microbiology and *Immunology*. Biofilms of Colorectal Cancer. Ian M. Craig, International Health. Understanding Intergenerational Malnutrition in Rural Bangladesh: A Systems Approach. Cassandra Kercher Crifasi, Health Policy and Management. Assault of Law Enforcement Officers in the Line-of-duty: Situational and Policy Contexts.\*\* Trevor Adam Crowell, Clinical Investigation. Healthcare Utilization among Persons Living with HIV with Attention to the Influences of Hepatitis Co-infection and Elite Control. Sarah Lorraine Dalglish, International Health. Power and the Policy Machine: The Development of Child Survival Policy at the Global Level and in Niger. Smita Das, Molecular Microbiology and Immunology. Foraging Behavior of Anopheles Mosquitoes in Nchelenge District, Zambia. Sarah Alice Davidovics, Epidemiology. Low-grade Inflammation, Immune Capacity, and Cancer.\*\* Amanda Kay Debes, International Health. Assessment of Efficient and Sustainable Tools for Cholera Detection and Intervention in Low **Resource Settings.** Elisabeth Anne Donaldson, Health, Behavior and Society. **Obesity Prevention Policy** Interventions for US Adults:

Exploring Facilitators and

Barriers.

Clinical Investigation. **Emergency** Department Diagnosis and Management of Influenza.\* Eva Hisako DuGoff, Health *Policy and Management.* Care Coordination, Quality and Outcomes: A Study in Older Adults with Multiple Chronic Conditions.\* Jeffrey Duong, Mental Health. Ecological Predictors of Children's Social, Emotional, and Behavioral Outcomes.\* Nicole Ann Errett, Health Policy and Management. Friend or Foe? The Relationship of Interlocal Collaboration and Emergency Preparedness.\*\* Marissa Bree Esser, Health, Behavior and Society. Alcohol-related Harms from Others' Drinking in India. Jonathan M. Fallica, Environmental Health Sciences. The Impact of Microphage Migration Inhibitory Factor on Cigarette Induced Emphysematous Disease Severity. Shari Paige Feirman, Health, Behavior and Society. Assessing the Potential Effects of a Flavored Tobacco Product Ban to Inform FDA Decisionmaking: A Systematic Review, Decision Analysis and Economic Evaluation.\*\* Xia Feng, Biochemistry and Molecular Biology. Roles of Disulfide Bonding in the Assembly, Organization, and Dynamics of Keratin Intermediate Filaments in Epidermal Keratinocytes.\*\* Patricia Ferrer, Molecular Microbiology and Immunology. Modulation of Host Iron Compartments Critical to the Malaria Parasite Development.\*

\*Degree conferred August 22, 2014 \*\*Degree conferred December 30, 2014

#### DOCTORAL DEGREES ·

Lisa Kaiser Fleisher, *Health Policy and Management.* The Role of Science Advisory Boards in US Federal Health Policy.

- Jillian Ashley Fontes, *Molecular Microbiology and Immunology.* The Dual Role of Interleukin-6 in Experimental Autoimmune Myocarditis and Dilated Cardiomyopathy.
- Alyssa Christine Frazee, *Biostatistics*. High-resolution Gene Expression Analysis.
- Dustin Garrett Gibson, International Health. The Readiness, Need for, and Effect of mHealth Interventions to Improve Immunization Timeliness and Coverage in Rural Western Kenya.
- Mindy Kim Graham, *Biochemistry and Molecular Biology.* The Interaction of Platinated Triplex-forming Oligonucleotides with DNA in Mammalian Cells.
- Geraldine Pierre Haile, *Health Policy and Management.* Assessing Medical Home Readiness Within Health Centers.\*\*
- Luciana Estelle Hebert, *Population, Family and Reproductive Health.* Sexual Norms, Gender Role Beliefs, Condom Attitudes and Sexual Behaviors Among Youth in Hanoi, Shanghai and Taipei.\*
- Megan Elizabeth Henry, International Health. Formula Use in a Breastfeeding Culture: Changing Perceptions and Patterns of Young Infant Feeding in Vietnam.

Craig Mitchell Hooker, *Epidemiology.* Examining Surgical Outcomes for Thoracic Cancers within a Clinical Setting: A Clinical Epidemiologic Perspective. Michelle Jean Mergler Hughes, International Health. Characterization of Pertussis Risk and Antibody Transfer in Infants in Sarlahi District, Nepal: A Community-based Prospective Cohort Study. Yunhee Kang, International *Health.* Effectiveness of a Community-based Participatory Nutrition Promotion Program to Improve Child Nutritional Status in Eastern Rural Ethiopia: A Cluster Randomized Trial. Sarah Abdallah Khasawinah, Mental Health. Brain Connectivity and Neurocognitive Health in Older Adults: The Baltimore Experience Corps Trial Brain Health Study. Bradley Steven King, Environmental Health Sciences. Characterization of

- Sciences. Characterization Surgical Plume Aerosols and Assessment of Occupational Exposures among Operating Room Personnel.\*\*
- Stephen Raymond Kodish, International Health. Formative Research to Understand Household Utilization of a Lipid-based Nutrient Supplement in Rural Malawi and Mozambique.
- Jennifer Marie Kreslake, Health, Behavior and Society. Determinants of Risk Behaviors in the Containment of Highly Pathogenic Avian Influenza. Alexandra Marie Kueider, Mental Health. Obesity and Physical Functioning: Associations with Cognition in the Advanced Cognitive Training for Independent and Vital Elderly (ACTIVE) Cohort.\*

- Chin-Chi Kuo, *Epidemiology.* The Role of Arsenic Metabolism in Mortality, Diabetes, and Kidney Disease.\*
- Lisa Prokop Lagasse, *Health, Behavior and Society.* Health, Environment, or Economics: Framing of Food Production Labeling in Three Informational Contexts.\*
- H. A. Daniel *Lagassé, Molecular Microbiology and Immunology.* Elucidating the Function and Dynamics of Resident and Recruited Macrophage Populations in the Lung.\*
- Hyo Jung Lee, *Biochemistry and Molecular Biology.* Cytoskeletal Regulation of Cortical Mechanics in Mammalian Eggs.
- Joy Li-Yueh Lee, *Health Policy and Management.* Cellphone, Email, and Text-messaging and Patient-Physician Communication in Primary Care.
- Sun Eun Lee, *International Health.* The Childhood Plasma Proteome: Discovering Its Applications in Public Health.
- Terrence Lee, *Epidemiology*. Basal Cell Carcinoma in United States Radiologic Technologists.\*
- Man Li, *Epidemiology*. Understanding Genetic Architecture of Kidney Function through Analysis of Genome-wide Arrays.
- Nathachit Limjunyawong, Environmental Health Sciences
- Beth Sydney Linas, *Epidemiology*. Mobile Health (mHealth) Assessment of Illicit Drug Use among Community Dwelling Drug Users in Baltimore, MD.\*
- Kirsten J. Lum, *Biostatistics.* Joint Modeling of Hierarchical Data with

Application to Prospective Pregnancy Studies.

- Krystal L. Lynch, *International Health.* Evaluating Eating Patterns of Toddlers from Low-income Households: A Multi-method Approach to Understanding Eating Behaviors of Young Children.
- Paige Alexandra Oliver Maas, *Biostatistics.* Synthesizing Data Sources to Develop and Update Risk Models.\*

Alexandra Maertens, *Environmental Health Sciences.* Systems Toxicology: Beyond Animal Models.\*\*

Sivabalan Manivannan, *Molecular Microbiology and Immunology.* Treatments for Acute Fatal Alphaviral Encephalomyelitis.

Lauren Mary Matthews, Biochemistry and Molecular Biology. Cell Cycle Regulation during Mammalian Female Meiosis: Characterization of the MASTL-ENSA/ARPP19 Pathway in Mouse Oocytes.\*\*

- Heather Shelley Mckay, *Epidemiology.* Biomarkers of Inflammation and Immune Activation and HIV-1 Disease Progression in the Multicenter AIDS Cohort Study.\*\*
- Shannon Aleece McMahon, International Health. Birth in a Broken Health System:
  How Abuse, Neglect, Poverty and Disrespect Undermine Intrapartum Care in Morogoro Region, Tanzania.
  Erin L. Mead, Health, Behavior
- and Society. Moving Beyond Fear: Exploring Perceptions of Theory-based Graphic Warning Labels Among Low-income, Urban Smokers.\*\*

Metabolic Syndrome, and

Subclinical

Sarah Rachel Meyer, International Health. Migration and Mental Health on the Thailand-Burma Border: A Mixed Methods Study.\*

Andrew Joseph Mirelman, International Health. The Economics of Noncommunicable Diseases in Rural Bangladesh.\*

Monica Liliana Mispireta, International Health. Early Life Programming of Cardiometabolic Disease: The Role of Prenatal Zinc, Intrauterine Growth, and the Development of the Fetal Autonomic Nervous System.

Russell Williamson Montgomery, *Health Policy* and Management. The Association of Organizational Characteristics, Policy Factors, and Social Climate with Delivery of Populationspecific Substance Use Treatment.

Indra Zena Mustapha, *Clinical Investigation.* Periodontal Disease and the Risk of Prediabetes and Type 2 Diabetes.\*

Maya Nadison, *Mental Health.* The Role of Caregivers in the Academic Performance of Juveniles Who Sexually Offend.\*

Sarah Elizabeth Naeger, *Mental Health.* Associations between Community Violence and Academic Competency in Urban Elementary School Children.\*

Jesse Paul Negherbon, *Environmental Health Sciences.* Whole Blood Assay Analysis of Immunostimulatory Constituents in Environmental Particulate Matter. Elizabeth L. Neilson, *Health, Behavior and Society.* Moving Research into Practice: The Diffusion of Evidence-based Recommendations through Professional Societies.\*

Derek Kai Sing Ng, *Epidemiology*. The Epidemiology of Glomerular Hyperfiltration Among Men with HIV in the Era of Highly Active Antiretroviral Therapy.\*\* Trang Quynh Nguyen, *Health*,

Behavior and Society. Negative Family Treatment's Effects on the Well-being of Sexual Minority Women and Transmen in Viet Nam, and the Roles of Sexualityrelated Social Support and Social Connection.\*

Lisa Miyako Noguchi, *Epidemiology.* Acquisition of HIV and Genital Tract Infection Among Injectable Progestin Contraception Users in South Africa: A Prospective Cohort Study.

Su Fey Ong, *Molecular Microbiology and Immunology.* Natural Killer Cells Suppress Cardiac Inflammation and Fibrosis by Inhibiting Eosinophil Accumulation.\*

Laysha Ostrow, *Mental Health.* Mental Health Peer-run Organizations Nationwide: Characteristics and Attitudes Toward the Affordable Care Act.\*

Loral Patchen, *Population, Family and Reproductive Health.* The Transition to Motherhood: Childbearing and Subsequent Body Mass Index.

Amy Kaye Paul, *Health Policy and Management.* Triangulating Transition: Conceptual, Practical, and Ethical Considerations for Sustaining Program Impact Through Transitions to Local Ownership. Kamau O. Peters, *Environmental Health Sciences.* Polycyclic Aromatic Hydrocarbon Internal Dose, Oxidative Stress, Inflammation and Asthma Exacerbation in Asthmatic Adults and Children in Baltimore City.\* Leigh Ann Peterson, *International Health.* 

Alteration of the Vitamin D Endocrine System in Obesity: The Role in Patients Undergoing Bariatric Surgery. Elizabeth Rose Pfoh, *Health Policy and Management.* The Value of Measuring Quality of Primary Care using Patient-reported Depression Collected through Electronic Health Records.\* Andrew Pike, *Molecular Microbiology and Immunology.* The Effects of

Genetic Modification on Anopheles stephensi. Jessie Pinchoff, International Health. Applications of GIS

and Spatial Statistics for Malaria Research in Rural Zambia: Evaluation of Risk Factors and Risk Mapping in Nchelenge District and Elimination Strategies in Macha.

Melissa Nicole Poulsen, International Health. "They got corn out here in the heart of the ghetto?" Community Perceptions of Urban Farming in Baltimore, Maryland.

Muge Qi, *International Health.* Understanding the Process and Key Factors of Community Implementation of a Food Store-based Nutrition Intervention on the Navajo Nation.\*

Sanjay Rampal, *Epidemiology*. Korean Dietary Patterns and the Prevalence of Diabetes, Atherosclerosis.\*\* Christine Meng Ramsey, *Mental Health.* School Climate, Older Adult Characteristics, and Fulfillment of School-based Volunteer Roles in the Baltimore Experience Corps Study.\* Peter Francis Rebeiro, *Epidemiology.* The Epidemiology of Clinical Retention Among HIV-

Infected Persons in North America.\* Jenna Lynn Riis, *Population*, *Family and Reproductive* 

Health. The Biological Embedding of Early-life Adversity: Using Salivary Biomarkers to Examine the Influence of Maternal Psychological Well-being on Child Neuroendocrineimmune Functioning.

Eric Thomas Roberts, *Health Policy and Management.* Essays on Markets for Primary Care Services for Medicaid Adults.

Allysha Camille Robinson, *Health, Behavior and Society.* The Role of Social Support and Syndemic Factors in HIV Medical Adherence among African-American Injection Drug Users.

Allison M. Ruark, *International Health.* Couple Partnership Dynamics and Relationship Satisfaction in Swaziland and Implications for HIV Prevention.

Simran Kaur Sabherwal, *Population, Family and Reproductive Health.* An Exploration of Son Preference and the Treatment of Daughters among Punjabi Sikhs in Northern California.\*\*

#### DOCTORAL DEGREES ·

Karampreet Kaur Sachathep, Population, Family and Reproductive Health. Understanding Changes in Supply and Demand in Reproductive Health.\* Haneefa Tasleem Saleem, International Health. Childbearing Desires and Experiences of People Living with HIV and Safer Conception in Iringa, Tanzania.\*\* Gabriela Salmon Mulanovich, International Health. Dengue Infection in Puerto Maldonado, Peru: Human Migration and Economic Impact.\*\* Bryan Charles Shaw, International Health. Care Seeking for Common Childhood Illnesses in the Context of Integrated Community Case Management Scale Up in Rural Ethiopia.\* Samuel Dedman Shillcutt. International Health. Economic Evaluation of the Costs and Cost-effectiveness of the Diarrhea Alleviation through Zinc and Oral **Rehydration Therapy** Program at Scale in Gujarat, India.\*\* Haochang Shou, *Biostatistics*. Statistical Methods for Structured Multilevel Functional Data: Estimation and Reliability.\* Michelle Ilana Silver, *Epidemiology.* Changing Cervical Cancer Screening Guidelines: Patient Attitudes and Clinical Practice. Alison Beth Singer, Epidemiology. Parental Exposure to Occupational Asthmagens and Risk of Autism Spectrum Disorder.

Sutyajeet Inderjeet Soneja, Environmental Health Sciences. Assessing

Particulate Matter and Black Carbon Emissions from Homes Using Traditional and Alternative Cookstoves in Rural Nepal.\* Kimberley Eden Steele, Clinical Investigation. Venous Thromboembolism Prevention in the Bariatric Surgical Patient: Are we doing enough?\* Richard Scott Swain, Epidemiology. Type 1 **Diabetes Treatment Patterns** and Glycemic Control in a Pediatric Cohort. Tania Wai Han Tang, Epidemiology. The Potential Impact of Cocaineassociated Immune Suppression on Human Papillomavirus-associated Clinical Outcomes.\*\* Vandana Tripathi, Population, Family and Reproductive Health. Development and Evaluation of Measures of the Quality of Facility-based Labor and Delivery Care in sub-Saharan Africa.\* Patricia L. Truant, Health Policy and Management. A Case Study of Bisphenol A (BPA) Risk Communication: Government Agencies, Interest Groups and the Media.\*\* Shilpa Viswanathan, *Epidemiology*. Medication Adherence in HIV-infected Adults in the Current Era of Highly Active Antiretroviral Therapy (HAART).\*\*

- Andrea Lacey Wirtz, *Epidemiology.* Barriers to Successful Engagement in Care Among Men Who Have Sex with Men in Moscow, Russia.
- Zhenke Wu, *Biostatistics.* Statistical Methods for Individualized Health: Etiology, Diagnosis, and Intervention Evaluation.\*\*

Juemin Yang, *Biostatistics.* Statistical Methods for Brain Imaging and Genomic Data Analysis.

Aisha Ibrahim Yansaneh, International Health. Integrated Community Case Management of Childhood Illnesses in the Context of Free Primary Health Care in Rural Sierra Leone: Effects on Care Seeking, Treatment and Equity.\*

Jessica Le'Vette Young, *Health Policy and Management*. The Development and Implementation of State Offices of Minority Health.

Tsung Yu, *Epidemiology*. A Patient-centered Approach to a Benefit-harm Assessment in Treatment Decision-making.\*\*

Rachel Diane Zamoiski, *Environmental Health Sciences.* The Associations of Vitamin D and Metal Exposures with Inflammation, Autoimmunity, and Blood Pressure.\*

Weiying Zhang, *Molecular Microbiology and Immunology.* The Role of Regulatory T Cells in Frailty in Men Who Have Sex with Men.\*\*

Di Zhao, *Epidemiology.* Association of Cardiovascular Risk Factors with Intraocular Pressure and Primary Open-angle Glaucoma.\*\*

Laura Yinran Zheng, Environmental Health Sciences. Arsenic and Chronic Kidney Disease in the Strong Heart Study.\*\* Linnea Ariel Zimmerman, Population, Family and Reproductive Health. Under-5 Mortality Estimation in

Humanitarian Emergencies:

A Comparison of Estimation

Methodologies Using Microsimulation.\*

Rose Ellen Zulliger, *Health, Behavior and Society.* Experiences of Female Sex Workers Along the HIV Care Continuum in Santo Domingo, Dominican Republic.\*

#### PAUL H. NITZE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

#### Doctors of Philosophy

David Janoff Bulman, *China Studies.* First in Command: Leaders, Political Institutions, and Economic Growth in China's Counties.\*

Booseung Chang, *Japan Studies*. The Sources of Japanese Conduct: A Comparative Analysis of the Reactive State in Japan.\*\*

John Anthony Michael Gans Jr., International Relations/ Strategic Studies. The Midnight Watch: NSC Staff, Drift, and Decision in War.\*\*

Marsha McGraw Olive, *Russian* & *Eurasian Studies*. Institutional Change in Russia: The Case of Urban Land Rights.

Neil K. Shenai, *International Relations/Global Theory and History*. Feckless and Fickle: Central and Shadow Banking during the Global Financial Crisis.\*

#### DOCTORAL DEGREES

# SCHOOL OF MEDICINE

#### **Doctors of Medicine**

Solomon T. Abay William Albert Acosta Mays Tahseen Ali Tamara Ashvetiya Christopher Ravi Bailey Basak Basdag Samiran Bhattacharya Paul Jay Bixenstine Lena Delle Caron Wendy Chen Howard Wonyoong Choi Jina Chung Jason Evan Cohen Catherine Alessandra Colaianni John Lawrence Cooper Julia Cockey Cromwell Charles Nicholas Cuneo Carla Maria De la Cruz Adam Christopher Diehl Radu Dudas Jonathan Winfield Dyal Onyinyechi Franca Eke Farzana Aziz Faisal Allen Lee Feng Yarden Samuel Fraiman Caleb Pressman Gardner John David Gatz Riaz Nadir Gillani Inna V. Grishkan Natasha Gupta Alexander Scott Harding Erin Elizabeth Hayward Emily Beth Heikamp Veronica Rita Hocker Qing Lina Hu Maimon Eid Hubbi Minh-Phuong Huynh-Le John Bassam Issa Jaleesa Amber Jackson Kathleen Josephine Jee Alexander Miles Jenson Yike Jin Andrea Lynn Jones Danielle Christine Jones Derek Guo Ju Krishna Rangadhamarao Juluri

Kristopher Allen Kast Bridget Patrice Keenan Sam Khalifian June-Ho Kim Isaac Abraham Kinde Alexandra Behar Kornbluh Theodore Sander Kouo Carol Li Molong Li Ran Li Cecillia Lui John Benjamin Marshall Dannielle Adora McBride Emma Coleen McDonnell Rebeccah Anne McKibben Rebecca Lynn McLaren Samuel Jacob Michel Kathryn Lynn Miele Yuliya Yefimovna Mints Kara T. Mirski Andrew Zhan Mo Huzefa Juzer Mogri Matthew John Molloy Shalini Moningi Phillip Charles Mote Carolyn Leigh Mulvey Atul Nakhasi Carter Jacob Neugarten Angeline Michelle Nguyen Ashley Marie Nieves Daniel Philip Nogee Vanessa Lindsay Pascoe Karlo Perica Lydia Calhoun Piper Sidharth Puri Thomas Edward Rappold Jr. Lauren Danielle Reschke Max Josef Romano Patrick John Besserman Sayre Gino Joseph Scalabrini Yevgeniy R. Semenov April N. Sharp Pooja Singal Amar Jagdish Srivastava Emma Miriam Steinberg Jean Hee Suh Amanda Yuan Sun Joel Chaim Sunshine Sunitha Chitra Suresh Martin Samuel Taylor Lauren Maria Thomaier

Wuroh Timbo Kevin Vu Tran William Tsao Chiedozie Chukwuka Uwandu Aditi Vasan Shannon Lydia Walker Heather Marie Walls Kevin Yuqi Wang Vinson Matthew Wang Joshua Andrew Watson J. Corey Andrew Williams Emily Turner Wood Risheng Xu Claire Price Zachik Lauren Rachel Zeitels Xin Zhou

#### Doctors of Philosophy

David Michael Alvarado, Cellular and Molecular Medicine. On the Contribution of Self-Mediated Organization of Keratin Intermediate Filaments to their Biological Function in vivo.\*\* Katherine Elizabeth Arner, *History of Medicine*. The Malady of Revolutions: Yellow Fever in the Atlantic World, 1793-1828.\*\* Sharrol Bachas, Biochemistry, Cellular and Molecular Biology Training Program-Biophysics and Biophysical Chemistry. Multidrug Recognition of Multidrug Transcription Activation by the Gene Regulator, BmrR.\*\* Matthew Garrett Baile, Biochemistry, Cellular and Molecular Biology Training Program-Physiology. The Topology, Regulation, and Function of Cardiolipin Remodeling in Saccharomyces cerevisiae.\*\* Hojjat Bazzazi, Biomedical *Engineering.* Tuning of Calcium Signaling Pathways by Calmodulin: The Case of

Ca<sub>v</sub>1. 3 Channels and

Calcineurin.\*\*

Cyrus W. Beh, *Biomedical Engineering.* Microfluidics and Single Molecule Fluorescence Spectroscopy in Cancer Research— Applications at the Micro-, Nano-, and Molecular Scale.\*\* Robert Joseph Bender,

Biomedical Engineering. Genomic Data-Based Models of Growth Factor Signaling for Personalized Cancer Therapy Selection. Jonathon Drew Bennett, *Molecular Biology and* 

Genetics Program– Immunology. Enhancer Induced Changes in Chromatin Structure and Function.\*\*

Heather L. Benz, *Biomedical Engineering*. Connectivity Analysis of Human Cortical Networks for Mapping and Decoding.\*\*

Corey John Bishop, *Biomedical Engineering.* An Investigation of Gene Delivery Barriers for Poly (Beta-Amino Ester)S and Hybrid Gold-Polymeric Nanoparticles.

Cynthia Korin Bullen, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Pharmacologic Strategies Toward Curing HIV-1 Infection: Identification and Evaluation of Small-Molecule HIV-1 Latency Reversing Agents.\*\*

Danfeng Cai, Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry. Direction Sensing During Collective Cell Migration.\*\* Hao Chang, Biomedical Engineering. Beta-Arrestin Mediated Cell Chemotaxis.\*\*

Yun-Ching Chen, *Biomedical Engineering.* Methods for Genome Interpretation:

\*Degree conferred August 22, 2014 \*\*Degree conferred December 30, 2014 Causal Gene Discovery and Personal Phenotype Prediction.\*\*

- Yim Ling Cheng, Biochemistry, Cellular and Molecular Biology Training Program-Cell Biology. Extracellular Function of Multiple Inositol Polyphosphate Phosphatase in the Drosophila Trachea.
- Meng-Jung Chiang, *Pharmacology and Molecular Sciences.* An Fc Domain Protein-Small Molecule Conjugate as an Enhanced Immunomodulator.\*\*
- Aeri Cho, *Biological Chemistry.* Functional Analysis of Tropomyosin Isoforms *in vivo*.
- Liang-Hui Chu, *Biomedical Engineering*. Data-Driven and Knowledge-Driven Computational Models of Angiogenesis in Application to Peripheral Arterial Disease.
- Anne Marie Cieniewicz, *Pharmacology and Molecular Sciences.* Characterization of Gcn5 Histone Acetyltansferase Activity and Bromodomain Acetyl-Lysine Binding Function.
- Megan Hussey Cleveland, Human Genetics and Molecular Biology. Pancreatic Progenitor Cells in Mice.\*\*
- Thomas Edgar Cleveland, *Program in Molecular Biophysics*. Detergent-Solubilized Patched Purified from Sf9 Cells Fails to Interact Strongly with Cognate Hedgehog or Ihog Homologs.\*\*
- Rory Landon Cochran, *Cellular* and Molecular Medicine. Novel Approaches to Studying BRCA Variants of Unknown Clinical Significance.\*\*

Patrick James Conlon, Biomedical Engineering. Investigating the Role of MAPK Signaling Dynamics and Chemotropic Regulation in Yeast. Emily Marie Cousins, Cellular and Molecular Medicine. Role of Human Herpesvirus 8 Viral Interleukin-6 Signaling in Virus Biology. Eric Cox, Biochemistry, Cellular and Molecular Biology Training Program-Neuroscience. Global Analysis of SUMO-Binding **Proteins Identifies** SUMOylation as a Key Regulator of the INO80 Chromatin Remodeling Complex.\*\* Sarah Elizabeth Croessmann, Pathobiology. The Role of Mutant PIK3CA and TP53 in Human Breast Carcinogenesis. Leigh-Ann M. Cruz, Cellular and Molecular Medicine. Targeting HOXB13-Overexpressing Tamoxifen-Resistant Breast Cancer.\*\* Tara Colleen Howard Dutka, Human Genetics and Molecular Biology.

- Hara Coneen Howard Dutka,JennHuman Genetics andBiMolecular Biology.DiMorphology, Behavior, andClthe Sonic HedgehogLaPathway in Mouse ModelsClof Down Syndrome.\*\*YaSarah Edie, Human GeneticsNestand Molecular Biology.CaEffects of Hsa21 GenePhExpression on EarlyMVertebrate Development.\*\*Ca
- Saniya Fayzullina, *Pathobiology.* Mechanisms of Degeneration in Skeletal Muscle and Spinal Cord in a Mouse Model of Spinal Muscular Atrophy.\*\* Ambhighainath Ganesan, *Biomedical Engineering.* Systems Studies on Spatiotemporal Dynamics of Kinase Signaling.\*\*

Tonya Marie Gilbert,

Biochemistry, Cellular and Molecular Biology Training Program-Pharmacology and Molecular Sciences. Characterization of Protein-Protein Interaction Domains Within the S. cerevisiae NUA3 Histone Acetyltransferase Complex.

- Justin Dewa'an Glenn, *Cellular and Molecular Medicine.* The Role of Mesenchymal Stem Cells on Effector CD8+ T Cell Development and Neuroinflammatory Autoimmune Disease.\*\*
- Hana Leah Goldschmidt, Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry. Diacylglycerol Kinase Theta at the Synapse: A Role for the Metabolism of DAG in Synaptic Vesicle Recycling.
- Inna V. Grishkan, *Cellular and Molecular Medicine*. Novel Role of Vitamin D in Preventing Central Nervous System Autoimmunity.
- Jennifer Christina Harr, *Biological Chemistry.* Directed Reorganization of Chromatin to the Nuclear Lamina is Mediated by Chromatin State, Ying-Yang1 and A-Type Lamins.
- Nesrin Mehmed Hasan, *Cellular and Molecular Physiology.* Molecular Mechanisms Regulating Copper Balance in Human Cells.\*\*
- Emily Beth Heikamp, *Molecular Biology and Genetics-Program in Immunology.* mTOR Regulates CD4 and CD8 Effector T Cell Differentiation via Serumand Glucocorticoid-Regulated Kinase 1 (SGK1).

- Hongxia Hu, Human Genetics and Molecular Biology. Hypoxia-Inducible Factors Enhance Glutamate Signaling in Cancer Cells.\*\* Zhong Hua, Biochemistry, Cellular and Molecular Biology Training Program-
- Molecular Biology and Genetics. The Role of Frizzled3 in Mouse Neural Development.\*\*
- Alan Jerry Huang, *Biomedical Engineering.* Development and Application of Novel Physiological MRI Methods to Image Changes in Oxygenation.
- Tai-Chung Huang, *Human Genetics and Molecular Biology.* CRLF2 Cytokine Receptor Signaling in Acute Leukemia.
- Daphne Lynn Hutton, *Biomedical Engineering.* Engineering Vascularized Bone Grafts with Adipose-Derived Stem Cells.
- John Bassam Issa, *Biomedical Engineering.* Multiscale Optical Imaging of Mouse Auditory Cortex.
- Rakhi P. Jattani, *Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry.* Functional Elements Within Card11's Inhibitory Domain Dictate Downstream Signaling to NF-kappa B in Lymphocytes.
- Manu Ben Johny, *Biomedical Engineering.* Conservation of Calcium Regulation Across Voltage-gated Calcium and Sodium Channels.
- Katrina Elizabeth Jones, *Functional Anatomy and Evolution.* Allometry of the Thoracolumbar Region in Running Mammals.\*\*
- Vijay Mohan K Namboodiri, *Neuroscience.* Time: Perception and Decision-Making.

Nene Nwocha Kalu, *Pharmacology and Molecular Sciences.* Pharmacologically-Induced Cellular Stress and Herpesvirus Replication.\*\*

- Xiaoxu Kang, Biomedical Engineering. A Novel Framework of Online, Task-Independent Cognitive State Transition Detection and Its Applications.\*\*
- Geetha Kannan, Cellular and Molecular Medicine. Mouse Models of Chronic Toxoplasma gondii (T. gondii) Infection: Implications for Psychiatric Disease.\*\*
- Robert Timothy Kazmierski, *Biomedical Engineering.* Metabolic Heterogeneity in Ischemia Reperfusion Injury: The Inside Story.\*\*
- Bridget Patrice Keenan, *Molecular Biology and Genetics-Program in Immunology.* Combination Immunotherapy Targeting Immunosuppressive Signals in the Tumor Microenvironment Prevents Cancer Progression in Breast and Pancreatic Cancer.
- David Hoontae Kim, *Cellular and Molecular Medicine.* Targeting CAPN9/CAPNS2 Activity as a Therapeutic Strategy for the Treatment of Transforming Growth Factor Beta-Induced Mesenchymal Transition and Associated Pathologies.
- Isaac Abraham Kinde, *Cellular and Molecular Medicine.* Rational Cancer Diagnostics Using Rare Mutation Detection Technology with Massively Parallel Sequencing.
- Theodore Sander Kouo, *Molecular Biology and Genetics-Program in Immunology.* The Role of the Lectin Binding Protein, Galectin-3, on Regulating

the Tumor Specific CD8 T Cell Response After GM-CSF Vaccination.

- Zheng Kuang, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Dynamic Histone Modifications Coordinate Transcription, DNA Repair and Recombination Across Distinct Metabolic States.\*\*
- Maggie Meei-Fann Kuo, *Biomedical Engineering.* Vasoactive Mediators Underlying Coronary Tone Regulation and Dysregulation.
- Sravanti Kusuma, *Biomedical Engineering.* Stem Cell and Hypoxia-Based Approaches to Engineering Blood Vessels.\*\*
- Kihyuck Kwak, *Pathobiology.* Development of Prophylactic Human
- Papillomavirus Vaccines.\*\* Benjamin Robert Leadem, *Human Genetics and Molecular Biology.* Novel Histone Demethylase
- Inhibitors Synergistically Enhance the Effects of a DNA Hypomethylating Agent in Breast Cancer Cells.
- Stella Suyong Lee, *Human Genetics and Molecular Biology.* ATM Kinase is Required for Telomere Elongation.
- Ileana Lorenzini López, *Neuroscience.* Alterations in the Astroglial-Vascular Interface During Motor
- Neuron Degeneration. Yunqi Lu, *Human Genetics and Molecular Biology.* A MYC Induced Long Non-Coding RNA, DANCR, that Affects Cell Proliferation.
- Brian Luna, *Cellular and Molecular Medicine*. Cavity Formation in the Rabbit Model of Tuberculosis.\*\*

- Anne Marie Macgregor-Das, *Pathobiology*. Cell Autonomous and Non-Autonomous Roles for TGFbeta Signaling in Pancreatic Cancer Metastasis. Katharina Maisel, *Biomedical*
- *Engineering.* Hypotonic Delivery of Drugs and Drug-Loaded Nanoparticles to the Gastrointestinal Tract.
- Alvin Patterson Makohon-Moore, *Pathobiology.* The Genetic Evolution and Natural History of Pancreatic Adenocarcinoma.
- Mollie Klare Marko, *Biomedical Engineering.* Sensitivity to Motor Error in Children with Autism.\*\*
- Andrea Megill, *Neuroscience.* Metaplasticity in a Mouse Model of Alzheimer's Disease and Possible Therapeutic Interventions.\*\*
- Elizabeth Ann Mills, *Neuroscience.* Remodeling of the Optic Nerve During Metamorphosis in *Xenopus laevis.*
- Khadijah Aisha Mitchell, *Human Genetics and Molecular Biology.* Deciphering the Role of DNMT3B in Regulating DNA Methylation and Epigenetic Modulation of Transcriptional Silencing.\*\* Alison E. Moreno, *Program in*
- *Molecular Biophysics.* Structural and Biochemical Studies of Histone Acetyltransferases and Sirtuin Enzymes.
- Sabin Mulepati, *Program in Molecular Biophysics.* Mechanism of Foreign DNA Recognition and Degradation by the Type I Crispr System in *Escherichia coli.*\*\*
- Michael Lewis Multhaup, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Genomics and

Epigenomics of Common Human Metabolic and Heart Disease. Antonio Michael Munoz,

- Program in Molecular Biophysics. Examining the Role Yeast Initiator tRNA Sequence and Structure Plays in Communicating Start Codon Recognition.\*\*
- Tracy R. Murray-Stewart, *Cellular and Molecular Medicine.* Spermine Oxidation and Epigenetic Regulation: Implications for Inflammation/Infection-Associated Carcinogenesis.

Ali Nabavizadeh, Functional Anatomy and Evolution. Diversity, Functional Morphology, and Evolution of the Jaw Apparatus in Ornithischian Dinosaurs.\*\*

- Judy Van Kim Nguyen, Biochemistry, Cellular and Molecular Biology Training Program-Neuroscience. Phagocytic Astrocytes and the Formation of Lipid Droplets in the Myelination Transition Zone of the Optic Nerve Head in the DBA/2J Mouse Glaucoma Model.\*\*
- Kim-Vy Nguyen-Ngoc, Biochemistry, Cellular and Molecular Biology Training Program-Cell Biology. Novel Roles of Extracellular Matrix and Non-Muscle Myosin II in Regulating Epithelial Migration and Proliferation.\*\*
- Tejasvi Shankar Niranjan, *Human Genetics and Molecular Biology.* Gene Discovery and Glutamate Signaling Defects in Intellectual Disability and Autism.
- Alexis Leigh Norris, *Cellular and Molecular Medicine.* Genomic Characterization of Familial Pancreatic Cancer Leads to Discovery of a Novel Structural Variant in Cancer.
- \*Degree conferred August 22, 2014 \*\*Degree conferred December 30, 2014

#### DOCTORAL DEGREES ·

Kevin Casey Olds, *Biomedical Engineering.* Robotic Assistant Systems for Otolaryngology-Head and Neck Surgery.

Benjamin Vincent Park, *Molecular Biology and Genetics-Program in Immunology.* TGF-beta1/ SMAD3 Suppress Anti-Tumor Immunity by Enhancing PD-1 Expression of Antigen-Specific CD8+ T Cells in Cancer. JinSeok Park, *Biomedical* 

Engineering. Mechano-Chemical Regulation of Cell Migration on Nanofabricated Scaffolds Mimicking *in vivo* Substrata.\*\*

Cassandra A. Patenaude, Biochemistry, Cellular and Molecular Biology Training Program-Physiology. Examination of Transport ATPases in Models of Disease.\*\*

Karlo Perica, *Biomedical Engineering.* Artificial Antigen Presenting Cells for Cancer Immunotherapy.

Emily Rose Petrus, *Neuroscience.* Experience Dependent Cross-Modal Regulation of Cortical Circuitry.\*\*

Yuri O. Poluektov, *Molecular Biology and Genetics-Program in Immunology.* A Study of the Mechanism Behind the HLA-DO Accessory Molecule and its Greater Role in Class II Antigen Presentation.\*\*

Amir Pourmorteza, *Biomedical Engineering.* Assessment of Regional Cardiac Function from 4D Computed Tomography.\*\*

Polina Prusevich, *Pharmacology and Molecular Sciences.* Exploration of Novel Small Molecule Phenelzine Analogue LSD1 Inhibitors.\*\* Kasra Ramyar, *Molecular Biology and Genetics-Program in Immunology.* Biochemical Characterization of Murine QA-1.\*\*

Tushar D. Rane, *Biomedical Engineering.* Integrating Droplet Microfluidics and Confocal Fluorescence Spectroscopy for High-Throughput Biomolecular Analysis.\*\*

Xylena Reed, *Human Genetics* and Molecular Biology. Towards the Genesis of Neuronal Regulatory Catalogs and Their Vocabularies.

Alexander Jaewoong Rhee, *Biomedical Engineering.* Noise Propagation and Information Transmission in the Tumor Necrosis Factor Signaling Pathway.\*\* Janelle Rowell, *Cellular and Molecular Medicine.* Exploring Protein Kinase G

Inhibition of Canonical Transient Receptor Potential 6 Channels in the Heart.

Paul Michael Schaughency, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Analysis and Mapping of RNA Polymerase II Termination Factors.\*\*

Joseph Daniel Schonhoft, *Program in Molecular Biophysics*. Dissecting the Search Pathway of DNA Glycosylases.\*\*

Benjamin Samuel Schuster, Biomedical Engineering. Probing and Overcoming Extracellular Barriers to Inhaled Nanomedicine.\*\* Marcus Seldin, Cellular and Molecular Physiology. How Muscle Communicates Nutrient Status to Regulate Physiologic Homeostasis.\*\* Gillian Curtis Shaw, Cellular

and Molecular Medicine. Retinal Gene Transcriptional

Photoreceptors. Ron Boris Shmueli, Biomedical Engineering. Therapeutic Nano-and Microparticles for Angiogenesis Dependent Diseases. Rishab Ravi Shyam, Biomedical Engineering. Nanoparticle Based siRNA Delivery to the Central Nervous System: A Potential Therapeutic Approach. Rezina Siddique, Biomedical Engineering. Development and Application of in vitro **Compartmentalized Devices** to Study Axonal Injury. Delia Silva, Neuroscience. Neural Mechanisms of Spatial Memory.\*\* Olivier Bauer Simon, Biochemistry, Cellular and Molecular Biology Training Program-Biophysics and Biophysical Chemistry. Enzymatic and Actin-**Binding Properties of** MICAL-1.\*\* Sara Hideko Sinclair, Cellular and Molecular Medicine. Effector Bottleneck: Microbial Reprogramming of Human Neurtophil

Regulation and

Neuroprotection of

Transcription by Anaplasma phagocytophilum. Jee Hoon Song, Cellular and Molecular Medicine. Novel Long Non-Coding RNA miR205HG: An Esophageal Tumor-Suppressive

Hedgehog Inhibitor. Yunke Song, *Biomedical Engineering.* Technologies for Quantitative and Multiplexed Biomarker Detection.\*\*

Ryan Paul Stadel, *Human Genetics and Molecular Biology.* Different States and Different Populations of Neural Stem Cells in the Adult Hippocampus.

Gerald Jan-Yu Sun, Neuroscience. Cellular Mechanisms of Adult Neurogenesis.\*\* Lu Sun, Neuroscience. Molecular Mechanisms Underlying the Assembly and Function of Visual System Circuitry.\*\* Melek Michelle Erdinc Sunay, Pathobiology. Harnessing Mechanisms of Immune Modulation by Sorafenib to Augment the Efficacy of Cellular Immunotherapy. Joel Chaim Sunshine, Biomedical Engineering. Biodegradable Nano- and Microparticles for Gene Delivery and Immune Activation. Martin Samuel Taylor, Pharmacology and Molecular Sciences. Inhibition, Structure, and Function of Ghrelin-O-Acyltransferase. Elaine Elizabeth To, Pharmacology and Molecular Sciences. Metabolism of Antiretroviral Drugs Used in HIV Pre-Exposure Prophylaxis.\*\* William Tsao, Cellular and Molecular Medicine. Moderate Accumulation of TDP-43 in Neurons is Sufficient to Cause Adult-Onset Motor Neuron Disease. Siavash Vaziri, Biomedical *Engineering.* Channels for Objects and Environments in Macaque Inferotemporal Cortex.\*\* Georgina McKusick Voegele, Functional Anatomy and *Evolution.* Forelimb Myology and the Evolutionary

Relationships of the Aardvark, *Orycteropus afer*, and Other Small Afrotheres.\*\*

David Walker, *Pharmacology and Molecular Sciences.* Credentialing the DNA Methylation Maintenance Protein UHFR1 as a Target for Anticancer Therapy.\*\* Joshua Weiyuan Wang,

- *Pathobiology.* Immunology and Vaccinology of Human Papllomavirus Minor Capsid Protein L2.
- Qing Wang, *Pharmacology and Molecular Sciences*. The Clinical Proteomics of Cancer.
- Yue Wang, *Human Genetics and Molecular Biology.* The Plasticity of Pancreatic Cells.\*\*
- Yuemeng Wang, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Development of Versatile Genetic Tools to Study a DYRK Family Kinase in Caenorhabditis elegans.
- Matthew Ward, Biochemistry, Cellular and Molecular Biology Training Program-Biophysics and Biophysical Chemistry. A Hierarchy of Kinase Activator-Receiver Preferences Modulates Signaling Outputs from EGFR/ErbB Heterodimers.\*\*
- Jonathan Roy Williford, *Neuroscience.* Neural Basis of Perceptual Organization of Natural Scenes: Emergence of Object-Based Coding in the Primate Visual Cortex.
- Hong Yuen Wong, *Pathobiology.* Y is Male Breast Cancer so Rare?
- Emily Turner Wood, *Neuroscience. In vivo* Diffusion Weighted Magnetic Resonance Spectroscopy in Multiple Sclerosis.
- Dan Wu, *Biomedical Engineering.* Characterization of Brain Tissue Microstructures with Diffusion MRI. Ren-Chin Wu, *Pathobiology.*
- Molecular Genetics of Gynecologic Cancers.\*\*

Nicolas A. Wyhs, *Pharmacology and Molecular Sciences.* Biophysical Characterization and Identification of Small Molecule Inhibitors for the Epigenetic Reader Protein MBD2.

- Jiefeng Xi, *Biomedical Engineering.* High-Speed Endoscopic Optical Coherence Tomography and its Applications.\*\* Risheng Xu, *Pharmacology and Molecular Sciences.* Regulation of Transcriptional Plasticity by GAPDH and IPMK.
- Shu-Han Yu, *Pathobiology*. Studies on the Role of Interleukin-6 in Prostate Cancer Development and in the Induction of Chronic Prostatic Inflammation of *Propionibacterium acnes*.
- Tao Yu, *Biomedical Engineering*. Mucus-Penetrating Nanocarriers for Cancer Therapy and Imaging.
- Melissa Ann Zarr, *Pharmacology and Molecular Sciences.* The Effect of Human Immunodeficiency Virus Type-1 Coreceptor Preference on Entry and Tropism Specific Phenotypes.\*\*
- Lauren Rachel Zeitels, *Human Genetics and Molecular Biology.* The Regulation and Function of miR-26 in Normal Physiology and Tumorigenesis.
- Hongkang Zhang, Biochemistry, Cellular and Molecular Biology Training Program-Neuroscience. Investigating the Principles of Chemical Modulation on Ion Channels.\*\*
- YingXin Zhang, *Neuroscience*. Expression and Function of NMDA Receptors in the Developing Cochlea.

# G.W.C. WHITING SCHOOL OF ENGINEERING

#### Doctors of Philosophy

Nourah Mohammed Almashan, Civil Engineering. Laboratory Experiments of Wave Attenuation by Mud.\*\* Pavlo Bohutskyi, Geography and Environmental Engineering. Algal Biofuels: Enhancing Energy Yield, Nutrient Supply from Waste and Nutrient Recycling from Algal Residues.\*\* Michael Anthony Carlin, Electrical and Computer Engineering. Computational Models of Representation and Plasticity in the Central Auditory System. Allison Beth Chambliss, Chemical and Biomolecular

*Engineering.* Nucleocytoskeletal Connections in Mechanotransduction.\*

- Li Chen, *Applied Mathematics and Statistics*. Pattern Recognition on Random Graphs.
- Min Chen, *Electrical and Computer Engineering.* Deformable Image Registration in the Analysis of Multiple Sclerosis.

Tze-Yuan Cheng, *Mechanical Engineering.* Improving Quantitative Infrared Imaging for Medical Diagnostic Applications.

- Stephen Robert Chestnut, Applied Mathematics and Statistics. Stream Sketches, Sampling, and Sabotage.
- Laura Ann Darnell, *Materials Science and Engineering.* Variations in the Mechanical, Chemical, and Microstructural Properties of Enamel.
- Alican Demir, *Mechanical Engineering*. Bio-Inspired Antennal Tactile Sensing.

Jun Ding, *Materials Science and Engineering*. Local Structure and Structural Signature Underlying Properties in Metallic Glasses and Supercooled Liquids.\*\*

Gregg Anthony Duncan, *Chemical and Biomolecular Engineering.* Diffusing Colloidal Probes of Biospecific Interactions and Biological Interfaces.\*

Mehmet Arcan Erturk, *Electrical and Computer Engineering.* Enabling Interventional MRI Using an Ultra-High Field Loopless Antenna.\*

Jianqiao Feng, *Electrical and Computer Engineering.* Fusion and Inference of Geometric Information and Functional Contrast in Computational Anatomy.\*\*

Ioana Nicolaescu Fleming, *Computer Science*. Robust Displacement Estimation for Ultrasound Elastography and Thermal Imaging.\*

Adam John Fournier, *Mechanical Engineering.* An Experimental Model for Traumatic Axonal Injury Based on Cytoskeletal Evolution.\*

Andrew Thomas Gaynor, *Civil Engineering.* Topology Optimization Algorithms for Additive Manufacturing.

Mickel Adel Yacoub Ghaly, *Electrical and Computer Engineering.* Rigorous Task-based Optimization of Instrumentation, Acquisition Parameters and Reconstruction Methods for Myocardial Perfusion SPECT.\*\*

Xiaoyu Guo, *Electrical and Computer Engineering.* Integrated Active Ultrasound Systems for Medical Interventions.

#### DOCTORAL DEGREES ·

Kegang Hua, Electrical and Computer Engineering. Human Brain White Matter Analysis Using Tractography-an Atlas-Based Approach.\*\* Hongtai Huang, Geography and Environmental Engineering. On the Identification of Associations between Flow Cytometry Data, Systemic Sclerosis and Cancer. Yu-ja Huang, *Materials Science* and Engineering. Physical and Molecular Characterizations of Galvanotaxis and Its Implication in Glioblastoma. Wei-chien Hung, Chemical and Biomolecular Engineering. Distinct Mechanisms Regulate Cell Migration in Confined Versus Unconfined Spaces.\*\* Ann Kathryn Irvine, Computer Science. Using Comparable Corpora to Augment Statistical Machine Translation Models in Low Resource Settings.\* Teena James, Chemical and Biomolecular Engineering. Nanoscale Patterning and 3D Assembly for Biomedical Applications.\* Angela Maria Jimenez Valencia, Chemical and Biomolecular Engineering. Three Dimensional in vitro Model of Invasive Tumor Spheroids within Collagen Matrices. Alia Shawky Khaled, Electrical and Computer Engineering.

Image Reconstruction and Geometrical Modeling of Bone Cross Sections from Limited Angle Dual Energy Projection Data.\* Krishna Praneeth Kilambi.

Chemical and Biomolecular Engineering. Computational Prediction of Protein-Protein Interactions.

Sarah Louise LaRocca. Geography and Environmental Engineering. Modeling the Reliability and Robustness of Critical Infrastructure Networks.\*

Yi-an Lin, Chemical and Biomolecular Engineering. Rational Design of Peptide-Based Supramolecular Polymers as Functional Biomaterials.\*

Junwei Liu, Civil Engineering. Micro-mechanical Modeling of Brittle Materials under Dynamic Compressive Loading.

Wen Pei Liu, Computer Science. Augmented Reality and Intraoperative C-Arm Cone-Beam Computed Tomography for Image-Guided Robotic Surgery.\*\*

Yu Liu, Materials Science and Engineering. Solution Processing of Low Voltage, Low Temperature, Sustainable, Transparent Oxide Field-effect Transistors.

John Gardner Long III, Materials Science and Engineering. An Electrochemical Impedance Spectroscopy and Pseudo Steady-State Voltammetric Study of the Chloride-Suppressor Complex Formed on the Copper Surface in Plating Baths that Exhibit Superfilling Used in the Dual Damascene Process During the Copper Metallization of Semiconductors.

Josue F. Martinez Hardigree, Materials Science and *Engineering.* On the Characterization and Manipulation of Interfaces in Organic and Hybrid Electronic Devices.

Krithika Mohan, Electrical and Computer Engineering. Mathematical Models of Mechanosensory Feedback.

Hassan Mohy-ud-Din, Electrical and Computer Engineering. Motion Correction and Pharmacokinetic Analysis in Dynamic Positron Emission Tomography.

Ryan Joseph Murphy, Mechanical Engineering. Analysis and Control of a Variable-Curvature Continuum Manipulator for the Treatment of Osteolysis.

Thomas Simmons Murray, Electrical and Computer Engineering. Human Action Recognition from Active Acoustics: Physics Modelling for Representation Learning and Inference Using Generative Probabilistic Graphical Models.

Aditya Ramakrishna Nayak, Mechanical Engineering. Flow and Turbulence Over a Rippled Seabed and **Biophysical Interactions in** the Inner Part of the Coastal Bottom Boundary Layer.

Shivendra Bhushan Pandey, Chemical and Biomolecular Engineering. Self-assembly of Lithographically Patterned Micropolyhedra.\*\*

Henry Pao, Applied Mathematics and Statistics. Graph Inference and Graph Matching.

Kara Danielle Peterman, Civil Engineering. Behavior of Full-Scale Cold-Formed Steel Building under Seismic Excitations.\*

Julian Noah Rosenberg, Chemical and Biomolecular *Engineering.* Improving the Cultivation Efficiency of Microalgae for Biofuels: Spanning Biofilm and Bioprocessing Scales.\*\*

Sarvenaz Sarabipour, Materials Science and Engineering. Mechanisms of RTK Signal Transduction Across the Plasma Membrane.

Shahin Sefati, Mechanical *Engineering.* Modeling Complex Biological and Mechanical Movements: Applications to Animal Locomotion and Gesture Classification in Robotic Surgery.\*\*

Cencheng Shen, Applied Mathematics and Statistics. Matching and Inference for Multiple Correlated Data Sets.

Yu-I Shen, Chemical and Biomolecular Engineering. Bioactive Scaffolds for Therapeutic Angiogenesis on Skin Injuries and Vascular Disease Model. Sahar Soleimanifard, Electrical and Computer Engineering. Novel MRI Approaches for Quantitative Assessment of Coronary Arteries and Ventricular Function.\* Vasudha Srivastava, Chemical and Biomolecular Engineering. Dynamic Interplay Between Cleavage Furrow Proteins in Cellular

Mechanoresponsive-ness. Matthew Joseph James Stehman, Civil Engineering. Advances in Shake Table Control and Substructure Shake Table Testing.\*

Adam Kerr Stover, Materials *Science and Engineering.* The Effects of Nonuniform Microstructures Ni/Al **Reactive Laminate Sheets** and Powders.\*

Iulia Caroline Swavola. Chemical and Biomolecular *Engineering.* Conservative and Dissipative Force Measurement to Engineer Stealth Drug Delivery Particles.\*\*

David York Luen Tan, Mechanical Engineering. Common Features in the Structure of Tip Leakage Flows.

\*Degree conferred August 22, 2014

between Labor Unions.

- Li Tang, Geography and Environmental Engineering. Surface Modification of Polymeric Membranes with Thin Films and Silver Nanoparticles for Biofouling Mitigation.
- Xiaoying Tang, *Electrical and Computer Engineering.* Brain Segmentation via Diffeomorphic Likelihood Fusion and Its Applications to Clinical Analyses.\*
- Dheeraj Singh Tomar, *Chemical* and Biomolecular Engineering. Protein Solution Thermodynamics: A Quasichemical Perspective of Solvent Effects.\*
- Andrew Llewellyn Tonge, *Mechanical Engineering.* A Unified Framework Which Uses Multi-Scale Microstructural Information for Modeling Dynamic Failure in Brittle Materials.\*
- Theresa Koys Tonge, *Mechanical Engineering.* Micro-Mechanical Approaches for the Hierarchical Modeling of
- Soft Biological Tissues.\*\* Vijay Vedula, *Mechanical Engineering*. Image Based Computational Modeling of Intracardiac Flows.
- Walter Scott Wall, *Electrical and Computer Engineering*. Design and Analysis of Broadband Self-Biasing Structures for Microwave Applications.\*\*
- Ke-yao Wang, *Electrical and Computer Engineering.* Nonlinear Optics in Hydrogenated Amorphous Silicon (a-Si:H) Waveguides.
- Maureen Wanjare, *Chemical and Biomolecular Engineering.* Perivascular Cells Derived from Human Pluripotent Stem Cells Using Biochemical and Biomechanical Stimuli.\*\*

Brian Douglas Weitzner, Chemical and Biomolecular Engineering. Next-generation Antibody Modeling. Gregory Robert Wiedman, Materials Science and *Engineering.* Developing Membrane Active Peptides for Endosomal Escape of Macromolecules. Justin Wayne Wilkerson, Mechanical Engineering. Multiscale Mechanics of Failure in Extreme Environments. Rui Xiao, Mechanical Engineering. Thermomechanics of Amorphous Polymers and Its Application to Shape Memory. Daguang Xu, Electrical and Computer Engineering. Compressive Sensing for Spectral Domain Optical Coherence Tomography.\*\* Zhifeng Yan, Geography and Environmental Engineering. Lattice-Boltzmann Modeling of Bacterial Chemotaxis in the Subsurface.\*\* Fengyuan Yang, Materials Science and Engineering. Supercritical Carbon Dioxide (scCO2) Processing of Dispersed Polymer/clay Nanocomposites: Structural and Barrier Properties.\* Jin Yang, Geography and Environmental Engineering. Adsorption and Transport Properties of Oxidized Multi-Walled Carbon Nanotubes.\*\* Sitan Yang, Applied Mathematics and Statistics. Microarray-based Multiclass Classification using Relative Expression Analysis.\*\*

Xuchen Yao, *Computer Science.* Feature-driven Question Answering With Natural Language Alignment.\*

Chuyang Ye, *Electrical and Computer Engineering.* Fiber Tracking and Fiber Tract Segmentation Using Diffusion Tensor Imaging. Chao Zhang, *Mechanical Engineering.* Mechanisms for Aerodynamic Force Generation and Flight Stability in Insects.

Yi Zhang, *Electrical and Computer Engineering.* Advancing Magnetic Resonance Spectroscopy and Endoscopy with Prior Knowledge.\*

#### ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES

#### Doctors of Philosophy

- Daniel Brinton Allan, *Physics and Astronomy*. Interfacial Microrheology of Biological Films.
- Brian August Anderson, *Psychological and Brain Sciences.* Value-driven Attentional Capture: Exploring the Influence of Reward History on Involuntary Attentional Selection.\*
- Norah Linda Andrews, *History.* Taxing Blackness: Tribute and Free-colored Community in Colonial Mexico.\*
- Kellan K. Anfinson, *Political Science.* The Ethos of the Event: From Political Eruptions to Climate Change.
- Natsuki Arai, *Economics*. Essays on Macroeconomics and Forecasting.\*\*
- Weining Bao, *Economics*. Essays on Deposit Insurance, Underground Banking and Buying Local Preference.\*
- Fabian Bauwens, *Political Science.* Cleavages, Organized Interests, and Parties in the United States, Germany and Japan: An Analysis of the Relationship

Minority Organizations, Cleavages, and Parties. Damien Alix Albert Benveniste, *Physics and Astronomy.* Two- Particle Dispersion Models for Turbulent Flows.\*\*

- Albert J. Beveridge, *History.* Private Business to Public Service: Robert McNamara's Management Techniques and Their Limits in Peace and War.\*
- Johannes Birke, *German and Romance Languages and Literatures.* Baustellen der Zerstörung. Literatur, Architektur und Dekonstruktion.\*\*
- Willy Blomme, *Political Science.* The Senses of Climate Change: The Politics of Belonging in the Age of the Climate Crisis.\*\*

Steven Patrick Bloom, *Chemistry.* From H to F: Strategies in Selective sp3 C-H Fluorination.

- Justice Elisha Bruursema, *Physics and Astronomy.* Using the 1. 64 Micron [FeII] Emission Line to Detect Supernova Remnants in NGC 6946.\*\*
- Nicholas Bujak, *English.* The Novelistic Poem and the Poetical Novel: Towards a Theory of Generic Interrelation in the Romantic Period.\*\*
- Angela Marie Buonaugurio, *Chemistry.* Anion Photoelectron Spectroscopic Studies: From Biomolecules, to Simple Organics, to Metal Compounds.\*
- Jose Alfredo Caro, *Biophysics.* Structural Origins of Pressure Effects in Proteins. Steffi Julia Cerato, *History.*
- Refashioning the Logic of Racial Order in the Urban South: Savannah, 1790– 1830.

Blair Robert Chapman,

Economics. Three Essays on Economic Policy.\*\* Wei-ting Chen, Sociology. Private Dinners, Public Families: Low-Income Mothers' Accounts of Family Foodwork.\*\* Kylie Shannon Chew, Biology. Photoreception in ipRGCs and Their Developmental Roles in Neural Circuit Formation and Refinement.\* Juanita Frances Clogston, Political Science. Post-print Democracy: The Decline of Newspapers and the Effects on Political Information. Political Participation and Political Power.\*\* Barbara Falk Condliffe, Sociology. Summer Learning in the City: How Schools, Families, and Neighborhoods Influence Urban Elementary School Students' Opportunities and Achievements.\*\* Emily Jane Danoff, Biophysics. Elucidating the Folding Pathway of Outer Membrane Protein A.\* Thuy Phuong Dao, Biophysics. Determination of Folding Pathway Selection and Origins of Cooperativity of Naturally Occurring and Designed Consensus Leucine-Rich Repeat Proteins.\* Thomas Michael Dechand, Humanities. Abducting the Imagination: The Methodological Foundation of Science and Criticism in Coleridge and Peirce.\*\* Charles William Dixon, *Political Science*. A Demotic Void: Materialism, Capitalism and Inequality. James Michael Dubik,

Philosophy. Waging War: Filling the Gap in Just War Theory.\*

Baris Cetin Eren, Sociology. The Trajectory of Democracy: The Social Roots of Regime.\*\* Thelma Escobar, Biology. Mapping a Th17 Network: microRNA and Polycomb in Cell Fate Specification.\* Cindy Soledad Espinoza,

Sociology. Earning Power, Gender, Race/Ethnicity, and Family Formation: A Mixed-Methods Examination of the U.S. Historical Context of Marrying for Baby Boomers and Generation X.

Charlene Fae Estrada, Earth and Planetary Sciences. Attachment, Selection, and Transformation of Prebiotic Molecules on Brucite [MgOH2] and the Implications for Chemical Evolution at Hydrothermal Systems.\*\*

Tegan Katharine Feehery, **Biology.** The Physical Nature of F Plasmid TraI and its Effect During Conjugative Transfer.\*\*

Robert John Gamble, History. **Civic Economies:** Commerce, Regulation, and Public Space in the Antebellum City.\*

Stephanie Lynn Gamble, History. Capital Negotiations: Native Diplomats in the American

Capital, 1789-1837.\*\* Pavol Genzor, Biology.

Characterization of a Unique High Mobility Group (HMG) Box Domain of Mouse Maelstrom.

Jamie Angela Gianoutsos, History. Gender, Tyranny, and Republicanism in England, 1603-1660.\*\* Yoichi Goto, Economics. Essays on Macroeconomics and Finance.\*\*

Mark Gregory, Biology. Catalysis and Inhibition of DNA Polymerase ETA, A Translesion Polymerase

Important for Chemotherapeutic Efficacy.\*\* Nicole Sunday Grove, Political Science. Gamers, Hunters, Provocateurs: Digital Mediations of Violence, Gender and Faith in the Arab World. Arpit Gupta, Physics and Astronomy. Dark Z' Search and (Un)Natural Supersymmetric Models.\*\*

Burak Gurel, Sociology. The Role of Collective Mobilization in the Divergence of the Rural Economies of China and India (1950-1990).

Daryl Austin Guthrie, Chemistry. Development of New, Physiologically Useful Nitroxyl (HNO) Donors.\*

Erik Gutierrez, Biology. Role of Translation Factor eIF5A and its Hypusine Modification in Synthesis of Polyproline Proteins.

Cemalettin Hasimi, Political Science. Nomos of the World: Euro-centrism and International Relations.

Kathryn Leigh Heflin, Chemical Biology. Investigating the Mechanism of DXP Synthase Catalysis.

Katie Melissa Hemphill, History. Bawdy City: Commercial Sex, Capitalism, and Regulation in Nineteenth-Century Baltimore.\*

Gregory Arthur Henkes, Earth and Planetary Sciences. Carbonate Clumped Isotope Geochemistry of Marine Mollusk and Brachiopod Shells and Its Application to Deep-Time Paleoclimatology.\*\*

Lisa Beth Hsin, Cognitive Science. Integrated Bilingual Grammatical Architecture: Insights from Syntactic Development.\*\*

Ke Hu, Chemistry. Fundamental Insights into the Charge Transfer Processes in Dye-Sensitized Solar Cells: Hole Transfer, Regeneration, Charge Recombination, and Electron Injection.\*\* Anatoli Ignatov, Political Science. Ecologies of the Good Life: Forces, Bodies, and Cross-Cultural Encounters.\* Suvi Maaria Irvine, Political Science. Don't Shoot the Messenger!: Rethinking Cynicism and the Value of Political Critique. Alexander Charles James, Philosophy. Neo-Aristotelian-Wittgensteinian Ontology: The Logical Form of the Proposition, Philosophical Explanation, and Categorial Thought. Stephen Alexander Jeffress, Earth and Planetary Sciences. Correlated Signals & Casual Transport of Sea Surface Temperature Anomalies in the North Atlantic.\*\* Nicole Jerr, Humanities. Pretenders to the Throne: Sovereignty and Modern Drama.\*\* Trenton Cole Jones, History. 'Deprived of Their Liberty': Enemy Prisoners and the Culture of War in Revolutionary America, 1775-1783.\* Jaiung Jun, Mathematics. Algebraic Geometry over Semi-structures and Hyperstructures of Characteristic One.

Leyla Derin Karakas, *Economics.* Essays on the Dynamics of Institutional Reform.

Arash Karami, Mathematics. Zeros of Random Reinhardt Polynomials.\*

Teodoro Katinis, German and Romance Languages and Literatures. A World of

\*Degree conferred August 22, 2014

Appearances: Sperone Speroni and the Debate over Sophistry in the Italian Renaissance.

Nicholas Earl Kauffman, *Classics.* Rereading Death: Ethics and Aesthetics in the Ancient Reception of Homeric Battle Narrative.

Gizem Keceli, *Chemistry.* Investigation of HNO-Induced Modifications in Various Systems.\*

Kirstie Elizabeth Keller, *Biology.* SAICAR, Acts as a Master Metabolite in Cancer Cell Growth, Survival, and Proliferation.\*\*

Se Kwon Kim, *Physics and Astronomy.* Dynamics of Magnetic Textures and Defects.\*

Sunghee Kim, *Chemistry.* Exploration of the Chemistry of Cupric-Hydroperoxo and Binuclear Copper(I)-Dioxygen Adducts with Modulated Tripodal Tetradentate Chelates.\*

Veselin Kostov, *Physics and Astronomy.* Discovery and Characterization of Transiting Circumbinary Planets from NASA's Kepler Mission.\*\*

Sika Bassou Koudou, Sociology. Who Can I Be the Best Parent To? An Analysis of U.S. Race Relations through the Lens of International Adoption.

Christopher Leonard Kozey, *German and Romance Languages and Literatures.* Las Batuecas, Las Hurdes and the Spanish Crypt.

Kevin James Lebo, *Biology.* The Role of the TLC1 RNA Flexible Scaffold in Yeast Telomerase Function.\*

Jing Li, *Biophysics*. Intrinsic Disorder and Allostery in Glucocorticoid Receptor.\* Shuning Li, *Earth and Planetary Sciences*. Triple Oxygen Isotope Distributions in Meteoric Waters, Plant Waters and Laboratory Precipitated Calcite.

- Yao Li, *Sociology.* Informal Norms and Protest Space: Why the Chinese Regime Remains Stable Despite Rising Protests.
- Qianli Ma, *Chemistry.* Theoretical Study of the Rotationally and Vibrationally Inelastic Collision Dynamics of Small Molecules.\*\*

Christopher Alan Martin, *Economics.* Essays on Foreign Treasury Purchases and the Yield Curve.\*\*

- Jeffrey Daniel Mayse, *Psychological and Brain Sciences.* The Role of the Basal Forebrain in Cognitive Inhibition.
- Nuala McCullagh, *Physics and Astronomy.* New Approaches to Modeling Statistics of the Large-scale Structure of the Universe.\*
- Matthew William McGonagle, *Mathematics.* The Gaussian Isoperimetric Problem and the Self-Shrinkers of Mean Curvature Flow.\*

Larry Sommer McGrath, Humanities. The Bergsonian Moment: Science and Spirit in France, 1874–1907.\* Alison Carol McQuilken, *Chemistry.* Mononuclear Non-Heme Iron(II) Models of Metalloenzymes with Mixed N/S Donors: Small

Molecule Activation.\*\* Jesse Ram Merriam, *Political Science*. Show Me How to Get There: The Rule of Law as a Language Game.\* Bryan Temples Miller, *Philosophy*. Scientific Psychiatry: A Novel Framework for Psychiatry Understood as a Branch of Medicine.\*\*

Kevin Connor Nash, *Physics and Astronomy*. Search for

New Physics with a Single Top Quark Signature in the Boosted All Hadronic Final State.

Anh Bao Nguyen, *Humanities.* Contextualizing the 'Inner' Pretense and Aspect in Wittgenstein, Lohenstein, and Goethe.\*

Darko Odic, *Psychological and Brain Sciences*. Objects and Substances in Vision, Language, and Development.\*

Ryan Michael O'Donnell, *Chemistry.* Metal-to-Ligand Charge Transfer (MLCT) Excited States of Ruthenium Polypyridyl Compounds Relevant to Dye-Sensitized Solar Cells (DSSCs).

Girma Elyot Alifeyo Parris, *Political Science.* Why the Turks Have it Better in Germany: A Comparative Historical Analysis or Policy Trajectories in U.S. Bilingual Education and German Islamic Instruction from 1965–2010.

Penny Peng, *Biology.* Structural Models of Bacterial RNA Chaperone Hfq in Complex with the RNA Targets.

Charles Phillips, *Political Science*. Bend, Engage, Wait, and Watch: Rethinking Political Agency in a World of Flows.\*\*

Ammon Eugene Posey, *Biophysics.* Intrinsic Disorder and Amphitropism in the Mitochondrial Fission Mechanoenzyme Drp1.\*

Matthew Robert Preimesberger, *Biophysics.* Histidine-heme Posttranslational Modification in 2/2 Hemoglobins: Mechanism, Consequences, and Engineering.\*\*

Heather May Pressler, *Biology.* Expression of an Oncogenic Transporter, Organic Anion Transporting Polypeptide 1B3, Impacts the Progession and Treatment of Prostate Cancer.

Patrick William Quirk, *Political Science.* Internal Threat Alliances: Great Powers, Fragmented Allies, and Alliance-Making in the Post-Cold War Era.\*

Collin Lee Rabe, *Economics.* Essays on International Capital Flows and Productivity Growth.

Michael Joseph Reese Jr., Sociology. Changing Course: The Influence of Social Position and Social Networks On College Faculty's Adoption of Educational Innovations.\*\*

Ke Ren, *History.* Fin-de-Siècle Diplomat: Chen Jitong (1852–1907) and Cosmopolitan Possibilities in the Late Qing World.\*

Anaid Citlalli Reyes Kipp, Anthropology. Adoption Bureaucracies: Expert Knowledge, Documents and Race in the Making of Adoptive Families in Central Mexico.\*\*

Daniel Eric Richman, *Physics and Astronomy.* Conformational Response to Changes in the State of

Ionization of Titratable Groups in Proteins.

Pervinca Caterina Rista, *German and Romance Languages and Literatures.* Carlo Goldoni as Musical Reformer; In Search of Realism in the Dramma Giocoso.

John Daniel Ross, *Mathematics.* Rigidity Results of Lambda-Hypersurfaces.

Melvin Lee Rouse Jr., *Psychological and Brain Sciences.* Testosterone Induction of Male Typical Song and Associated Neural Plasticity in Adult Female

\*Degree conferred August 22, 2014 \*\*Degree conferred December 30, 2014 Canaries and European Starlings.\*

Olivia Maj Sabee, German and Romance Languages and Literatures. Ballet d'Action to Ballet-Pantomime: Dance. Text, and Narrative in French Ballet, 1734–1841.

Carolyn Gail Salomons, History. 1492 Reconsidered: Religious and Social Change in Fifteenth Century Ávila.\*

Rodney Wayne Sappington, Anthropology. Investigating Possibilities and Probabilities of Biomedical Informatics (BMI): Beyond Biology and Information.\*

Vaibhav Saria, Anthropology. The Perfumed Semen: The Labour of Loving in Rural Orissa, India.\*\*

Teresa Marie Schubert, Cognitive Science. Cognitive Processes of Letter and Digit Identification.

Melissa Elizabeth Simmonds, Biology. The Role of Melanopsin in the Regulation of Circadian Behavior and Light Responses Under a Wide Variety of Light-Dark Environments.

Michael R. Simone, Near Eastern Studies. On Fire: Preternatural and Hypostatic Fire in Ancient Israelite Religion.

Andrew Reynolds Sisson, *English.* Cities without End: Elizabethan Literature and the Limits of Republicanism.\*\*

Elizabeth Anne Steedley, *English.* For the Duration: Global War and Satire in England and the United States.

Benjamin Christopher Streifel, Chemistry. Controlling the Electronic Properties and Morphology of Semiconducting Polymers

Through the Incorporation of 1, 6-Methano[10] annulene.\*

- Abhignya Subedi, Biology. Characterization of the Habenulo-interpeduncular Pathway in the Zebrafish Brain.
- Hongtan Sun, Mathematics. Strichartz Estimates for Wave and Schrödinger Equations on Hyperbolic Trapped Domains.\*

Lama Tarayrah, Biology. Analysis of the Roles of Histone Demethylases in Drosophila melanogaster Male Germ Cell Maintenance and Differentiation.\*\*

Lucia Tiererova, Economics. Empirical Essays on Bidder Behavior in Auctions.\*\*

- Jeffrey Eric Tolliver, Mathematics. Hyperstructures and Idempotent Semistructures. Robert J. Trachman III, Biophysics. A Thermodynamic Description of Cation-RNA Interactions with Differing
- ion Atmosphere Composition.\*
- Erin A. Urquhart, Earth and Planetary Sciences. Remote Sensing and Modeling of Vibrio Bacteria in the Chesapeake Bay.\*

Egle Verseckaite, *Political* Science. Citizenship as a Stateness Boundary Maintenance Regime: The Curious Case of Lithuanian

Dual Citizenship. Ryan James Vierling, Chemical Biology. Antimicrobial Agents Targeting Early-Stage Isoprenoid Biosynthesis: Design, Synthesis and Evaluation of Acetylphosphonate Inhibitors of DXP Synthase.\*\*

Yuan Wan, *Physics and* Astronomy. Fractionalization and Confinement in Frustrated Magnets.\*\*

Xing Wang, Mathematics. Asymptotic Behavior of Spectrums for Elliptic Pesdodifferential Operators. William Maurice Ward,

Chemistry. Concerted Bond Formation with Electron Transfer to Ruthenium Polypyridyl Excited States.\*

John Philip Waterman, Philosophy. Shadows of Doubt: On the Psychological Foundations of the

Skeptical Problem. Jennifer Lynn Watson, History of Art. Realism and Representation: Arman, 1954-1964.

Jiajia Wen, Physics and Astronomy. Short Range Order and Continuum Excitations in Frustrated Magnets.\*\*

Liwei Weng, Chemistry. Investigating the Reactivity of an Abasic Lesion Within Nucleosomes and Probing the Interactions Between Histone Tails and Nucleosomal DNA in Nucleosome Core Particles. Anthony Charles Wexler, English. At a Distance of Years: The Novel of Aging in

the Shadow of Auschwitz. Matthew Noel White,

Economics. Essays on Health Care Markets.\*\*

Ruli Xiao, Economics. Identification of Incomplete Information Games with Multiple Equilibria and Unobserved Heterogeneity.\*

Xi Yang, Economics. Essays on the Labor Market, Housing and Children's Health.\*\*

William Henry Yarosh, Biology. Differential Replication Leads to Copy Number Variation and Genome Rearrangements of Polyploid Cells.\*\*

Mao Ye, Physics and Astronomy. Blinking in Quantum Dots and Endothelial Cells under Curvature and Shear Stress.

Nan Zhang, English. "Solemn Progress": Modernism, Social Constitution, and Cosmic Life.\*\*

Ting Zhang, History. Information and Power: Printing, Law, and the Making of Chinese Legal Culture, 1644-1911.\*

Zheng Zheng, *Physics and* Astronomy. The Structure and Evolution of Disk Galaxies.\*\*

Thomas Zorawski, Physics and Astronomy. Supersymmetric Model-Building in the Era of LHC Data: From Struggles with Naturalness to the Simple Delights of Fine-Tuning.\*

# CAREY BUSINESS SCHOOL

#### Masters of Science

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#### SCHOOL OF EDUCATION

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Jonathan D. Hill, Organizational Leadership Natan Eliyahu Hirsch, Education\*\* David M. Hoefler, Education\* Michelle Elise Hohman, Education\*\* Colin Walter Holmes, Education Joyce Olivia Hones, Counseling\* Helen Louise Hopper, Education Chi-Ning Rubecca Hou, Counseling James Huai-Hsien Hsieh, Counseling Catherine R W Hudson, Education\*\* Alicia S. Hunter, *Education* Denis Ibarra, Counseling Brandon Isao Yi Chiang Ing, Education Kristin Ingram, Counseling Dena Diana Inqui, Education Jennifer R. Ivan, *Counseling* Carina L. Iverson, Education Amber Rose Jackson, Counseling\* Anita Rikki Jackson, Special Education\*\* Sarah G. Jackson, Education Turalloy J. Jackson, Education Sarah Fereshteh Jarvandi, Counseling Jason Ryan Jenkins, Organizational Leadership Brittany Lynn Jennings, Counseling Christopher R. Jennings, Education Zhenhao Jin, Counseling Scott P. Johns, Education Jessica A. Jones, Education\* Katelyn E. Jones, Education Emily Marie Jukich, Education Jaime H. Julis, Education\*\* Amber Juracka, Counseling Elizabeth M. Kamnikar, Counseling\*\* Sarita Anne Kapadia, Education Brittany L. Karakostas, Counseling\* Kelsey Ryann Kavanagh, Education

Education Eric A. Keenan, Organizational Leadership Rachael Francis Kelly, Education Sarah M. Kern, Education Kumar Cortez Kibble, Management\* Aimee Kim, Education Min Jung Kim, *Education* Tesia G. Kim, Education Kelly E. Kimpton, *Education* David Tyler King, Education Tamara E. Kingsland, Education\*\* Amy L. Kitchens, Education\* Alyssa V. Klein, Education Sandra E. Knutson, Education Kathleen Cavanaugh Koch, Education Nathan M. Koenig, Education January Blair Kolker, Special Education\*\* Lindsay Elizabeth Kosasa, Education Geoffrey S. Kotarides, Education\*\* Chloe Koutsos, *Counseling* Dean Kowalski, Education Dana B. Krauss, Education Deborah Boyd Krulak, Education Kelsey L. Lagana, Education Katherine Ann Lambeth, Education Emily Ann Lamoreau, Counseling Craig Erik Lassner, Special Education\* Matthew C. Lawrence, Education Casey A. Lawson, Education Regina Catherine Lea, Education Lyubov Lebed, *Counseling* Angela L. Lee, Organizational Leadership Michele S. Lee, Education\*\* Sarah Jeeyeon Lee, *Counseling* Nicole Catherine Lefrancois, Education Robert K. Leibee, Education\* Matthew Joseph Leonard, Management\*

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Colleen M. McEnearney, Education Jasmine A. McEwen, Counseling Brendan M. McFadden, Education Christine Elizabeth McGowen, Counseling Rachel Muriel McGrain, Education Jennifer Hahn McGraw, Organizational Leadership Rhia Aletha McKissic, Education Kimberly Ann McLaughlin, Counseling\*\* Ciara Siobhan Megan, Education Daniel Ray Mello, Education Matthew Lewis Merletti, Management\* John David Merrill, Education Maggie M. Meyer, Counseling Rashad L. Mills, Counseling Helen HaeRim Min, Education Abbegail Elyse Cohen Minor, Special Education Ashley Kuehn Minor, Education Megan Faye Minotti, Education Barbara D. Mitchell, Management Joy Giarratano Moore, Education Jenna Akie Moriwaki, Education Candra Gbolu Mattie Mae Morris, Education\* Kelly Danielle Morton, Counseling Melissa L. Morton, Counseling\*\* Harry Naftalowitz, Education\*\* Ashwin Narasimha Rao Narla, Education Ashley Naatekie Nartey, Special Education\*\* Genese Johannah Neal, Special Education\* Thomas Samuel Neider, Organizational Leadership\*\* Lisa Denise Nesbitt, Education\*\* Kaitlyn Newell, Education Katherine Marie Newman,

Education

Laura Kay Newman, Education\*\* Kristi M. Ninos, Education\* Arthur P. Noble II, Education Hannah Grace North, Education Laura H. Oakley, Education Kerry Elizabeth O'Brien, Counseling Caitlin Marie O'Connor, Special Education\* Brittany A. Okafor, Education Sumaiya Batool Olatunde, Counseling Morayo E. Olukoya, Counseling Grace Curran O'Malley, Education Adepoju Oni, Counseling\* Rodolfo Ornelas, Education Wyatt D. Oroke, Education Morgan Leah Kim Owens, Education Amanda M. Painter, Education Mary Rose Palazzolo, Education Anurag K. Pandey, Education Annie Jihyo Park, Education Esther Dohyoun Park, Education Sharin Park, Education Samantha H. Parlow, Education Dawn N. Peake, Education\* Christopher Jonathan Peck, Education Jessica Peker, Education Laura E. Peppe, Education Micaela A. Perez Ferrero, Education Phoebe Delmonico Petersen, Education LaTreal Kenneth Peterson, Education Brooke Sophia Petruzzelli, Education Ashley I. Pettway, Counseling\* Caitlin B. Pharo, Education Margaret Kelly Phenicie, Education Caroline Anne Cynthia Phillips, Education Rebecca L. Phillips, Special Education\* Justin Michael Shawn Pinn, Education

Stephanie Carol Plitt, Special Education\*\* Andrew William Powell, Organizational Leadership Anna Elizabeth Pozzatti, Counseling Chris M. Pryor, Intelligence Analysis\*\* Karen R. Quesenberry, Education\* Amber Nasir Qureshi, Education Fae Rabin, Education Samuel N. Ramatowski, Counseling\* Rochelle Marie Ramirez, Education Enrique Refugio Aquino Ramos, Education Zachary C. Rataj, Education\*\* Cynthia Anita Rawlings, Management\* Allyson Y. Reed, Education Raphael S. Reggie, Education\*\* Carlos Manuel Reyes, Counseling Jessica Ann Reves, Education Zoya Syeda Riaz, Education Hannah Bard Rich, Special Education\*\* Leslie L. Richardson, Special Education Lauren M. Riedinger, Education Kristina Kathryn Riggi, Education\*\* Rachel Lyn Riseling, Special Education\* Margot Louise Rittenhouse, Counseling Emily Grace Robichaud, Education Gregory Anthony Rodarte, Education Travis Michael Rodgers, Education Alexa Rodriguez, Education Kenneth L. Rogers Jr., Education\*\* Hannah Elise Rose, Counseling Joan Gabriella Rosenthal, Education Bethany K. Rosera, Education Richard W. Russell,

Management

Nicole Hoover Webster,

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Counseling\*\*

Michael B. Thompson, Intelligence Analysis\*\* Stacy Diana Thompson, Education Stephanie Regina Thompson, Counseling Jeanie Tieu, Counseling\* Dana Tobin, Education\*\* Katherine Nicole Tomscha, Education Jason Anthony Toraldo, Education Julianne Tortolano, Counseling Chanel F. Traboldt, Education Megan Therese Trainer, Education Tuongvan T. Truong, Education Nyesha Nicole Trusty, Education Anna Marie Serena Tucker, Education Crystal Tung, Education Tina Tuttle, *Counseling* Rebecca Underhill Tyler, Education Olivia Tyrrell, Education Joanna Lee Vanderpool, Education Monica Ashley Vaughn-Flam, Education Ryan Gustave Vermette, Education Christine Grant Versagli, Counseling Rosheil C. Viajar, Special Education Dena Marie Voluse, Education\*\* Joseph Andrew Wagner, Education Tanesha Shauntá Waid, Education Robert Matthew Walker. Intelligence Analysis\*\* Brett D. Wallace, Intelligence Analysis\*\* Gillian Feuer Wallace, Education Elynn Morgan Waller, Counseling Alexis Waxenfelter, Counseling Gwendolyn M. Weaver, Education Ethan William Weber, Education

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\*Degree conferred August 22, 2014 \*\*Degree conferred December 30, 2014

#### Masters of Education

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# Masters of Arts in Teaching

Trishanna K. Blake Antonette Willson Bowman Jacquelyn Sawyer Bullock\*\* Bandana Chadda Eric Anthony Chalfin Mahvash F. Chaudhri Deconselum Deon Cooper Amos Christopher Dawson Malachy James Duffy Ashley Fay Gavidia Jessica Gillespie Hailey P. Grandchamp Joseph Anthony Haren\* Bridget Baird Harkness Kathryn Ann Harter Erin Frances Inouve Mary Katherine Kimiecik Laura Michelle Lewis Dina Sawzak Link\*\* Blanca Suzette Moon David George Henry Moore Miltonia Kimberlyn Peal\* Alyssa Kathleen Perkinson Kelsey Sierra Prakken Daniel P. Remer Carly Ristway Geneva R. Rogers Audrey H. Scott Melanie Nicole Stanson Caren Elizabeth Szanton Elizabeth Seay Thomasian Jonathan Everett Tietz Kelsey Alanna Times Haley Elizabeth Veldt

### Graduate Certificates

Bassmah Mohammed Alshemimry, *Leadership in Technology Integration* Lisa M. Anderson, *School Administration and Supervision*  Lisa M. Anderson, Instructional Technology for Web-Based Professional Development and Training Rachel Sara Andrews, Differentiated/Inclusive Education: Advanced Methods for Instruction\*\* Rachel Sara Andrews, Leadership in Technology Integration\*\* Roxanne A. Anthony, School Administration and Supervision\*\* **Georgina Frances** Baumgartner, Teaching the Adult Learner Alveteus Z. Baylor-Taylor, Education of Students with Autism and Other Pervasive Developmental Disorders Robert James Begin, School Administration and Supervision Robert James Begin, Data-Based Decision Making and Organizational Improvement Wykea Ronique Benjamin, Differentiated/Inclusive Education: Advanced Methods for Instruction Wykea Ronique Benjamin, Urban Education Lori F. Bennett, Education of Students with Autism and Other Pervasive Developmental Disorders\*\* Danielle Jennifer Berman, Education of Students with Autism and Other Pervasive Developmental Disorders\* Kimberley Shotwell Black, School Administration and Supervision\*\* Weslee A. Boehme, Gifted Education\*\* Isaiah T. Bolgiano, Leadership in Technology Integration\*\* Alan D. Botkin, Data-Based Decision Making and Organizational Improvement Leslie Marie Boyadjian, Urban Education\*\* Ettice Nicole Brickus, Online Teaching and Learning for Adults\*\*

Cindy Bristol, Education of Students with Autism and Other Pervasive Developmental Disorders Tracy B. Broccolino, Mind, Brain and Teaching\*\* Heidi Elizabeth Burns, Mind, Brain and Teaching\*\* Jabari S. Bush, School Administration and Supervision\* Jabari Sallim Bush, Leadership for School, Family, and Community Collaboration Patrick John Capuano, School Administration and Supervision\* Silvia Chang, Differentiated/ Inclusive Education: Advanced Methods for Instruction Silvia Chang, Emergent Literacy Education Rina Kyung Cho, Adolescent Literacy Education\*\* Tonia R. Christopher, Teaching the Adult Learner\* Daniel Scott Clements, School Administration and Supervision Christopher Guy Cochran, Gifted Education\*\* Stacey Coffman, School Administration and Supervision\*\* Cynite J. Cooke, School Administration and Supervision\* Cynite J. Cooke, Data-Based Decision Making and **Organizational Improvement\*** Pearline R. Cooper, Education of Students with Autism and Other Pervasive Developmental Disorders\* Alicia Cooper Danyali, School Administration and Supervision\*\* Alison Cordeiro, Mind, Brain and Teaching\*\* Gwen Creel-Erickson, School Administration and Supervision\*\* Gretchen A. Cronin, Mind, Brain and Teaching\*\* Janet L. Currotto, Leadership in Technology Integration\*\*

Peter Bell Daniels. Differentiated/Inclusive Education: Advanced Methods for Instruction\*\* Peter Bell Daniels, Educational Leadership for Independent Schools\*\* Cheree Renee Davis, School Administration and Supervision Elizabeth Brooke DeGele, School Administration and Supervision Elizabeth Brooke DeGele, Mind, Brain and Teaching\*\* Kathryn R. Durham, Differentiated/Inclusive Education: Advanced Methods for Instruction\* Kathryn R. Durham, Early Intervention/Preschool Special Education Specialist\* Tania Lucy Dynda, School Administration and Supervision\*\* Jordan Edgley, Education of Students with Autism and Other Pervasive Developmental Disorders Melissa Anne Ekey, Urban Education John V. Ellenberger, School Administration and Supervision\*\* Rebecca Ellis, Education of Students with Autism and Other Pervasive Developmental Disorders\* Amira M. Ezzat, Educational Leadership for Independent Schools Amira M. Ezzat, Leadership for School, Family, and Community Collaboration Anshea C. Fenner, School Administration and Supervision\* Michele McDonald Foley, Mind, Brain and Teaching\*\* Sheryl A. Freedman, Mind, Brain and Teaching\*\* Kelly Ann Marie Gardner, School Administration and Supervision\* Joseph Garner, Teaching the Adult Learner\*

\*Degree conferred August 22, 2014 \*\*Degree conferred December 30, 2014

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Casey A. Lawson, Leadership for School, Family, and Community Collaboration Kristen Lear, School Administration and Supervision\*\* Christina Suejung Lee, School Administration and Supervision Yee Tsun J. Lee, School Administration and Supervision\*\* Nicole Catherine Lefrancois, **Emergent Literacy Education** Nicole Catherine Lefrancois, Urban Education Arethetta M. Lewis, School Administration and Supervision\* Arethetta M. Lewis, Data-Based Decision Making and Organizational Improvement\* Grace E. Lim, School Administration and Supervision\*\* Maria Mama Timotheou, Online Teaching and Learning for Adults\* Amy Theresa Manko, Earth/ Space Science\* Amy Theresa Manko, K-8 STEM Education Lead-Teacher\* Valbona Masati, School Administration and Supervision Valbona Masati, Data-Based Decision Making and Organizational Improvement Monica Elaine Cauthorne McClain, School Administration and Supervision\* Monica Elaine Cauthorne McClain, Urban Education\* Rebekah Roman McCord, Emergent Literacy Education\* Rebekah Roman McCord, Online Teaching and Learning for Adults\* Albert Ray McDonald III, Educational Leadership for Independent Schools\*\* Brandy L. McDonald, Mind, Brain and Teaching\* Jamie E. Melnick, Education of Students with Autism and

Developmental Disorders\*\* Mandisa Neal Dowsey, School Administration and Supervision\*\* Joel D. Neft, School Administration and Supervision\*\* Lisa Denise Nesbitt, Online Teaching and Learning for Adults\*\* Lisa Denise Nesbitt, Teaching the Adult Learner\*\* Tanya R. Neuman, Gifted Education\*\* Keturah D. Nilsson, Education of Students with Autism and Other Pervasive Developmental Disorders\* Shaun Hillary O'Branski, Mind, Brain and Teaching\*\* Michael P. O'Connor, K-8 STEM Education Lead-Teacher\* Matthew S. Owens, K-8 STEM Education Lead-Teacher Mark Henrique Page-Botelho, School Administration and Supervision\*\* Noah Daniel Parker, Online Teaching and Learning for Adults\* Alexander T. Pella, School Administration and **Supervision** Tiffany Anderson Petrillo, Emergent Literacy Education Judith L. Pollock, School Administration and Supervision\*\* Michael C. Powell, Online Teaching and Learning for Adults\*\* Christine Prozik, Education of Students with Autism and Other Pervasive Developmental Disorders\* Alexander J. Reese, School Administration and Supervision Raphael S. Reggie, Online Teaching and Learning for Adults\*\* Hannah Bard Rich, Education of Students with Autism and Other Pervasive Developmental Disorders\*\*

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Administration and Supervision\*\* Patricio Xavier Zevallos Donoso, Data-Based Decision Making and Organizational Improvement\*

### PEABODY CONSERVATORY OF MUSIC

#### Graduate Performance Diplomas

Cameron Huster Beck, Harp Nikita Borisevich, Chamber Music Paolo Bortolameolli, Conducting Yanbin Chen, Trumpet Yunan Chen, Piano Daeun Choi, Piano Joshua Thomas Diaz, Opera Elena Fischer-Dieskau, Piano Sooji Han, Piano Sahun Hong, Piano Yanghee Kim, Flute Siu Kan Kenneth Kwan, Violin Hsiao-Hsuan Lin, Piano Brittani Shontae McNeill, Voice Peter Linus Morris, Horn Yumi Nomoto, Piano Bethany Rose Pietroniro, Piano Hanna Shin, Piano Lydia Michelle Skinner, Violin Stephen A. Slater, Horn Jennifer Ruth Smoak, Horn Soomi Song, Piano Meng Su Chamber Music Terra Dee Warger, Violin Wenhui Xu, Voice

# Masters of Music

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Priscilla Muh-en Chang, Piano Abigail West Chapman, Voice James Chu, Composition Kyung Wha Chu, Piano Diana Cuzzo, Music Education Jing Dai, Oboe Eric Nicholas D'Alessandro, Viola Deirdre Moran DeStefano, Viola Yuezhi Dou, Piano Wesley Ryan Ferguson, Wind Conducting Evan K. Fiehrer, Guitar Wynne Fung, Composition Christoffer Hansen Fyhr, Music Education Jarrel A. Garner, Tuba Joshua Samuel Glassman, Voice Lillian Renee Green, Music Theory Pedagogy John Isaac Greene, Guitar Chentian Gu, Violoncello John Edwin Haggerty, Composition and Music Theory Pedagogy Roderick Hamilton, Music Education Frank L. Hammarin, Horn Andrew G. Hann, Early Music: Voice and Harpsichord Katelyn Rose Hearfield, Musicology John Clifford Henderson, Composition Joshua Hong, *Conducting* Laura Rose Jackson, Music Education Daniel C. Jacobs, Viola Hyojeong Annie Jeong, Violin Soyoung Jung, Piano Tae Eun Kang, Voice Brian Kay, Lute James Constantine Keretses, Guitar Min Sang Kim, Voice Nahyun Kim, Violin Xulu Kong, *Composition* Jaenam Lee, Voice Young Eun Lee, Voice Yen-Chen Lin, Violin An-Chi Ling, Trombone Haolan Liu, Trumpet Ruiyuan Liu, Computer Music

Composition

Jeremy Lutty, Guitar Jeremy Glenn Lyons, Musicology Elizabeth Diana Massey, Bassoon and Musicology Victoria Grace McGrath, Voice Patrick Harrison Merrill, Harpsichord Scott Allen Miller II, Composition and Music Theory Pedagogy Jiyoung Moon, Violin Brian Scott Mummert, Voice Ana Catarina Pais Ferreira, Violoncello Zhujun Pan, Composition Sunkyong Park, Piano Richard Phillips, Early Music: Voice Katharine Frances Pollock, Voice Justin Michael Porter, Computer Music Composition Nicholas William Pothier, Ensemble Arts: Vocal Accompanying Lauren Elizabeth Randolph, Voice Mauricio Rey Gallego, Violoncello Tomasz Robak, Piano Alayna Marie Roby, Voice Rebecca J. Roy, Voice Charles Anthony Rudig, Composition and Music Theory Pedagogy Alexandra Schleuderer, Voice Martha Louise Schulenburg, Musicology Maria Adele Scott, Piano Elisabeth Valora Skaggs, Viola/ Pedagogy Emily Austin Smith, Violoncello/Pedagogy Kah Yun Song, Flute Jingchen Sun, Percussion Joann Corinia Marie Talley, Music Education Jordan William Thomas, Harp Richard W. Tilley, Music Education Ming-Ching Tseng, Violin Claire Galloway Weber, Voice Wai Yin Wong, Piano Rebecca Elizabeth Wood, Voice

Julien Xuereb, Guitar

Tzu-Jou Yeh, *Violoncello* Chia Chi Nina *Yen, Piano* Woonji Yeoh, *Voice* Christine S. J. Yoon, *Piano* Alie Anne Yorgason, *Piano* Fang Yuan, *Guitar* Yuqi Zhang, *Violin* Yinglin Zhou, *Violin* 

# Masters of Arts

Jameson Charles Dickman, Audio Sciences Xiaoyu Guo, Audio Sciences Yoshimi Hasegawa, Audio Sciences John Garvin Horne, Audio Sciences Tianyi Liu, Audio Sciences Eunjin Grace Nam, Audio Sciences Joel Thomas Nygren, Audio Sciences Ye Qian, Audio Sciences Daniel Rorke, Audio Sciences Joel Stephen Watts, Audio Sciences

#### SCHOOL OF NURSING

#### Masters of Science in Nursing

Nasreen Ibrahim Abdulmannan\* Nicole Gifty Amanguanor Chad William Backus\*\* Jeffery Clarke Baldwin\*\* Kristina Lynn Baroska\*\* Katherine Marie Bednarczyk Alicia Nicole Bellamy\*\* Amanda Page Bettencourt\*\* Dianne Bettick\*\* Mary Eleanor Brugger\*\* Sarah Dobson Calvert\*\* Diana Wu Chia Sung E. Cho\*\* Willa Vroman Cochran **Jessica Acosta Coliflores** Leah Marie Colligan Kathryn S. Daugherty\*\* Jessica Marie Faulhaber\*\* Rachael Ann Fornwalt\*\* Melanie Furrer\*\* Allison Claire Geissert

Andrea Marie Giachetti Lindsay Mclear Griffeth\*\* Claire Elise Seiser Hanway\*\* Taryn Revenaugh Haselhuhn\*\* Jamie Lynn Hatcher\* Shannon Lynn Heuklom Enesha Jenise Hicks\*\* Kelli Michiko Hiraoka Sarah Lindiwe Hobongwana\*\* Ye Eun Hong\*\* Gretchen Elizabeth Housel Sarah Fang Huang Charlotte Lucy Wynne Jones\*\* Rachel Shaw Kidanne\*\* Yee Hun Kim\*\* Lisa Marie Klein\*\* Natasha Lee Kormanik\*\* Tricia Dwyer Krueger\*\* Danielle Laraine Lama Mary Caroline Langrall\*\* Amy Natalie Tannenbaum Linden\*\* Alexa Marie Littlejohn Angela Marie Llufrio\*\* Kaitlyn Mary Luzzetti\*\* Emily Kathleen Mackin Nicole Marie Maffia Ashley Ann Millard\*\* Nasreen Mohammed\*\* Vannesia Delores Morgan-Smith\*\* Kendra Ludwig Nagey\*\* Thao Thanh Nguyen Craig Clemence Ogurek\*\* Alison Taylor Owens\*\* Kaity Pak\*\* Julia Lynn Pardue\*\* Joni Ann Pedersen\*\* Caroline Anne Griswold Pierson Lauren Alexandra Renner Cara Leigh Reske\*\* Diann C. Rocha\*\* Bernadette Victoria Russell Alexis Marie Rybny\*\* Fabiana Panzera Leite Saad Amanjeet Kaur Sahota Corazon Almeida Sarmiento\*\*

Elizabeth Anne Schappell\*\*

Meghan Marie Schultz\*\*

Sherri Shaffery

Heidi Christine Shafland\*\* Kristen Elizabeth Shea\*\* Jennifer Ann Siembida\*\* Anik Taylor Emily Thompson Schelberg Clifton Peter Thornton\*\* Shuchita Vandra Diana Catharina vanRoon Karen Mary Wahle\*\* Anise Tatiana Wheeler\*\* Amanda Regina Wood\*\* Jessica Ann Woods\*\* Sarah Theresa Zammillo\*\*

#### SCHOOL OF NURSING AND BLOOMBERG SCHOOL OF PUBLIC HEALTH

# Masters of Science in Nursing/Masters of Public Health

Margaret Elizabeth Adams\* Sarah Bristol\*\* Jacqueline N. Brysacz\* Amy Joy Burrell\* Tracey Michelle Hammond Long\*\* Rachel Nicole Looney\* Alexandra Citrino Maher\*\* Joy A. Malanyaon\*\* Mary Allison McQuilkin\* Jennifer Marie Poliwka\*\* Brittany Rose Ramsey\* Madeleine Whalen

# SCHOOL OF NURSING AND CAREY BUSINESS SCHOOL

# Master of Science in Nursing/ Master of Business Administration

Ami Mehta\*\*

#### BLOOMBERG SCHOOL OF PUBLIC HEALTH

#### Masters of Science

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# Masters of Science in Public Health

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# PAUL H. NITZE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

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Weijia Yao Deeba Yavrom Fatih Nurettin Yildirim Cem B. Yolbulan Min Kyung Yoo Semi Yoon Noelle E. Young-Nwafor Jasmin Laina Yu Fei Yuan Philip Christopher Zager Emily Kathleen Zeidler Xinrui Zeng Felix Ruda Zhang Ge Pepe Zhang **Xueting Zhang** Shichao Zhou\* Yihong Zhu John Francis Ziegler Keriann E. Zolman Sandra Malorie Zuniga Guzman

# Masters of Arts in International Affairs

Leon Ahlers Sophie Jade Giulia Parzani\*\*

# Masters of International Public Policy

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Stephanie Jane Wilson Jason P. Wright Augustus Mawolo Zayzay Jr.

#### SCHOOL OF MEDICINE

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# Post-Baccalaureate Certificates

Brian Agbiriogu, Certificate in Clinical Informatics Arti Mattoo, Certificate in Clinical Informatics

# G.W.C. WHITING SCHOOL OF ENGINEERING

# Post-Master's Advanced Certificates

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Masters of Science in Engineering in Bioengineering Innovation and Design

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#### Masters of Science in Engineering in Financial Mathematics

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# Masters of Science

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Elizabeth Catherine Stewart\* Sara Elaine Swabb\*\* Daron Lenore Taylor\*\* Amy Erin Thomas Terri S. Thomas\* Meaghan Trimyer\* Christin Cecelia Wade Robin Walden\* Dawn Whitney\*\* Kristen Lee Wing\* Reginal C. Woodruff\*\* Ben Jermaine Woods Helen Catherine Woody Angela Marie Worland Andrea Young\*\* Brooke Showalter Zimny\* Stacey Zur\*\*

# *Masters of Arts in Global Security Studies*

Eniola Adenike Adebule Adrienne Marlena Allen\* Marc Aron Ashed Nicholas Baranishyn III Justin Albert Beekhuis Paul Michael Bleau\* David Butterworth\*\* Kristen Wei-fan Cassidy Franco Benjamin Ciammachilli\*\* Christopher Luis Cirino\*\* James Joseph Coghlan III Alexandra Maria Wanda Czerska Kristen Leigh Davis Raphael Tosti de Almeida Vieira Michelle Celia Feldstein Jeremiah Matthew Foxwell Scott Christopher Gibson\*\* Cory Richard Gill\*\* Alexander Steven Goldberg Joshua D. Grindstaff Iennifer S. Hendrickson\* Charles Eric Hintz\* Matthew Walker Jackson\* Jessica L. Jacoby\*\* Sadaf Jalil Khan\*\* Nicholas David Kron Mark Isaac Kuperman\*\* Kacey Jane Mahoney Bryan Myles McCarthy\*\*

\*Degree conferred August 22, 2014

\*\*Degree conferred December 30, 2014

Andrew David Mechling\*\* Nanayaw Agyekum Obeng-Duro Jigisha S. Patel\*\* Matthew Eric Pincus\* Lacey Daniel Raymond\* Jennifer Rock\*\* Matthew Richard Rolfes Jesse Lane Rostveit Clara Sophie Koenig Satria Zachary Marc Silberman\*\* Eric Allen Slate\*\* Benjamin Sugg Brett Michael Truitt Ana Maria Venegas\*\* Boris M. Zilberman\*\* Katie Lynn Zimmermann\*\*

# Masters of Arts in Government

Lark Renee Adams Tyler Harold Aiken\* Fatimah Ali Al-fayyard Al-Khaldi\*\* Mark Gaetano Arnone\*\* Sonali Bhave Eric Eugene Bontrager Stephanie Kei Chak Kelly Elizabeth Eichman Robert Benson Erwin Caitlyn Starin Goodman\*\* Luke Anthony Goolsby Beth Ann Hull\*\* Julie Marie Hutson Jonathan Joseph Kelly\*\* Erin Elizabeth Mahn\*\* Vikrum Mathur\*\* Paul Michael Hannahs McCoy\*\* Charles F. McGonigal\*\* Amar Medatia Carly Moore Steven M. Moreland\*\* Aleksandra Aragon Natzke\*\* Patrick Kyle O'Brien Ji Hae Hana Park\* Janelle Sofia Perez\*\* Jessica N. Pinckney Meghan Marie Ringelberg Ouantesa Roberts\* Michael Francis Schultz

Eric Taylor Sconyers Nathan Horace Smith\*\* Michael Hunter Stephens\*\* Bianca Ingrid Sylvester Ebenzer Nathanael Tadeo William Irvin Telligman\*\* Danielle Kathleen Witt Alexander Wong\* Kelly Yahner

# Masters of Arts in Museum Studies

Whitney Erin Aguiniga Joann Margaret Asakawa Haley Powell Backlund Claire Heather Badgley Evlyn Baker\*\* Carolyn Anne Bevans Bree Monson Boettner Elizabeth Amy Bolander\*\* Ileana Beatriz Bonilla\*\* Iulie Elleanor Bowman\* Julia Lynn Bruton\* Timothy Anne Burnside\*\* Erica Micheal Carter\*\* Magdalyne Rose Christakis Lauren Victoria Ciriac Wenger Iris Luna Close Ann Marinelli Del Pero Joanne Del Rio Andra Lauren Dennett\*\* Iuliane Maria Dowell Amy Katherine Doyel\*\* Caitlin Campbell Draayer Sarah Drennen Kimberly Jacoby Dudgeon\*\* Stefanie T. Dunn Rebecca Rittenhouse Dupont Marlena Fernandez Melissa Ford\* Rebecca T. Gavin Kristina Marie Gaylord Bailey Elisabeth Girvan\*\* Heather Lin Gromley\*\* Catherine R. Grubman\*\* Jennifer Marie Hare Marcus A. Harshaw Jr. Jessica Harvey Colette Patrice Heim-Frantz\* Nathan Edward Johnson Kristin Kelby Josvoll

Erin M. Kane\* Isabelle Arditti Kargon\*\* Sarah RenÄe Kass Sandra A. Kerby Lauren Michelle La Salle\*\* Arielle Lewis\* Xin Yuan Lim Nissa Mary Lipowicz Lindsay Marie Mancuso Holly Ann Marino Katherine Anne Matar\*\* Truly Matthews Corey E. McAninch Elizabeth Cheryl Mccoy Ashley Erin Zuckerberg Mead Monica Cheri Miller Kristin Miyagishima\*\* Amy Graf Moorefield Eric Andrew Morse Kristin Mary Nelson Chris Niklewski\* Jennifer Dolores Olsson\*\* Carie Marie Paine Jessica Anne Pedigo Lauren Kay Peightel\* Kimberly Margaret Pollock Alison Renee Reppert Gerber\* Teresa Lynn Reynolds\*\* Amy Joan Ruehl\*\* Morgan Paige Russell Sarah Leah Saetren\* Jennifer Rea Schmitt\*\* Erin Barbara Sheehy\*\* Stacey L. Simpson Rachel Susan Smilow Melissa Ann Speck Sarah Rose Joan Stango\* Ann Elizabeth Stegina Mary Mikel Stump Sarah Margaret Thompson\*\* Meg von der Linden Lauren A. Wagner Tyler Lee Wagner Morgan Ashley Walker Hannah Beth Weinberg-Wolf Clarence Donald Williams Thomas Wayne Williams Angela Michelle Winand Brian Wolly\*\* Megan Elizabeth Wozniak

# Masters of Arts in Public Management

Iliana Araceli Briseno Angeles\*\* Joelle Marie Cannon\*\* Allison Diana Cullin\*\* Michael Dakduk Peter Lob Danjczek\*\* Kelly Marie Danoy Kevin F. Donnelly Leo Colin Dorsey\*\* Candice Diane Duggan Joseph Gainey\*\* Megan Elizabeth Garratt-Reed\*\* Adam David Goldstein\*\* Shane Adam Graves Nicole Elizabeth Harrison Sayed Zafar Hashemi Damon M. Hunt\*\* Kevin M. Jeram\*\* Jason Insung Kim Christopher Francis Massad Haley Nicholson Richard Porter Omanya Alexis Judith Elizabeth Redmond Boriana Sako\* David Thomas Semelsberger Sarah Margalit Slobodien Dovere\* Jimmy Srun Bruce B. Tsai\*\* Roshni Uttamsingh\*\* Christopher David Weaver Jr.

# Masters of Arts in Science Writing

Emily Lauren Mullin Vanessa Wamsley

#### Masters of Arts in Writing

Jacqueline C. Bach\*\* Isaac James Baker Diane Lucas Bosser Gina Marie Brillante\*\* Lillian Brodine RN Allyson Damita Brown Nicole Callahan\*\* Olivia M. Campbell\*\* Erin Patricia Canning\*\* Frances E. Carden Lisa Danaczko\*\* Christopher DiFrancesco Amanda Marie Doran Rita M. Folev\*\* Lauren Michelle Fox Edgar G. Gibbs Peter J. Goodman\*\* Megan Michaela Hallinan Kathryn Heyward Hamilton Judith Harding\*\* Andrew Wilson Hazlett Kathryn Laura Horowitz\*\* Robert Dean Johnson Enid Kassner Christina M. Keller Jean Kim\*\* Jeannette Christine Kimmel\*\* Kim Yvonne King\*\* Randall Wayne-Christopher Leonard Sallie Wolff Lewis Debbie McCulliss\*\* Ashley Montague\*\* Iennifer Mussett Katrina Lynn Norfleet Lynn Oluwatoyin O. Olaleye Amanda Palleschi Michael Barrington Palmer\*\* Mahima (mia) Pandey Gordon\*\* Kristen Leigh Rethy Clara Annabell Roberts Beverly Denise Roosendaal Melody Joi Rowell Melody A. Schreiber Linda Simoni-Wastila\*\* Rebecca Sinderbrand Justin Michael Sloan\*\*

Samantha L. Solomon\*\* Jeremy D. Stafford\* Stefen Giles Styrsky\*\* John M. Trumbo\*\* Erin Upton-Cosulich Jonathan James Whitcraft John Raymond Williams\*\*

#### Masters of Liberal Arts

Nanaaku Bruce-Attah\*\* Donna Lee Burke Judy Camille Chmelik\*\* Jeffrey W. Dugan Hannah Welsh Fromm\* John Curtis Furlow\*\* Lesa Lynn Goodhue\*\* David Max Horowitz Catherine R. Kruchten\* Rommel Burce Loria Jaffar Zein Mjasiri\*\* Nathan Shaw Priester\*\* Michael L. Pursley\*\* Catherine Flynn Thornton\*\* Tin Ning Tseung Sharon L. Warner\* Jean L. Wolf\* Jean Corrie Wortman

ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES AND CAREY BUSINESS SCHOOL

Masters of Science in Biotechnology/Masters of Business Administration

Demitry Kazlouski Pierce Parker III Samuel Reiff Perry\*\*

# Master of Arts in Communication/Master of Business Administration

John Andrews Tejeda

### Masters of Arts in Government/Masters of Business Administration

Kelly S. Adams\*\* John J. Baldino\*\* Angela Christine Banks Victoria Grace Collins Kelsey Lauren Greenawalt Dawson James Hunter\*\* Michael Hunter Stephens\*\* Tiffany Katarina Tong\*\* Richard Thomas Warren\*\*

# ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES

#### *Certificates in National Security Studies*

Richard David Anderson\*\* Hannah Rose Bainter\* John A. Beard\*\* Divya Ramjee Rosalie Louise Raymond

### Graduate Certificates in Geographic Information Systems

Evan Clay Aird\*\* Virginia Lynn Kalb\* Michael Alexander Nescot\* Kathleen M. Weiss\* Matthew Evan Whitacre\*

# Post-Baccalaureate Certificate, Digital Curation

Angelique K. Kelley

Post-Baccalaureate Certificate, Non-Profit Management

Jessica Lee Harvey

# Post-Baccalaureate Certificates, Premedical Program

Neha Jia Ahmad\* Julie Rebecca Barzilay Michael S. Bertenthal\*

Hannah Bogen Allison Dillon Bosch Andrea E. Davis **Emmeline Friedman Christine Elizabeth** Gummerson\* Eden Hen\* Harriet H. Huston-Paterson Alexandra Elizabeth Khaleel Ramon Lee Jr. Conor David Lucas-Roberts Rani Fawzi Matuk **Emily Moin** Sophia Asako Teraoka Parente Kelly Ann Skrable Micah Cary Ulrich Lily Ravel Van Tongeren\* David Zheng

Richard Allen Smith\*\*

### CAREY BUSINESS SCHOOL

# Bachelor of Business Administration

Min Uk Kim

#### **Bachelors of Science**

Sungjun Bae, Business Adam Daniel Bates, Business Alexander Berlin, Business Elliot Berlin, Business\* Robin Bradford Garrett, Business and Management Ann Marie Brasile Mejac, **Business** David Broner, Business\* Tacola Buyarski, Business\* Junhao Cai, Business Kengyue Cai, Business Yichi Cai, Business Steven Chamama, Business\*\* Thomas Willis Chapman Jr., **Business** Hongyi Chen, Business Jun Yi Chen, Business and Management Amiel Peretz Chicheportiche, Business Seung Yi Choi, Business Wonhyeok Choi, Business\* Yehuda Meir Cohen, Business\* Lisa Renee Denney, Business Matthew Sean Dickenson, **Business** Jiushan Dong, Business Mengchen Dong, Business\* Yutong Dong, Business Melissa Delois Easterling, Business Yilin Fang, Business Nana Fredua-Agyeman, Advancing Business Professionals Sonja D. Freeman, Business and Management\* Xiaolu Fu, Business Paulette Fung, Business and Management\* Max Ganz, Business\* Kory Lynn Geans, Business Shuang Guo, Business Seonghoon Han, Business\* Jiavi He, Business Hiro Inoue, Business Ji Min Jeong, Business

Jingru Jiang, Business Leesha Jim, Business\* Darlene L. Johnson, Business and Management Steve Gary Jones Jr., Business and Management\* Ting-ju Kan, Business Gwichul Kim, Business\* Hyeuk Kim, Business William Michael Layman, Business and Management Richelle Lewis, Business Xuan Li, Business Ying Li, Business Jinhong Lin, Business Yingying Lin, Business Yuliang Liu, Business Terah Nathaniel Lucas, **Business** Ky Anh Cao Mai, Business Theresa M. Marshall, Business and Management\* Lisa Carmela Meissinger, Business and Management\* Pongpatchara Monthonsophon, Business Louis A. Morgan, Business and Management Frankeric Ngassam Djanko, **Business** Vu Anh Nguyen, Business Marylyn Theresa Parkinson, Business and Management Ronald Conrad Prietz Jr., **Business** Ngai Him Pun, Business Zachary Kivi Rothblatt, **Business** Gerald Rutman, Business\* Junhuk Seo, Business\* Anita M. Shelton, Business Yiming Sheng, Business Seunghan Shin, Business Lin Si, Business Jean Andrea Smith, Business and Management\* Sean Spitzer, Business\* Karen S. Stevenson, Business and Management\* Yangyi Su, Business Tarit Tatiyarat, Business Benjamin H. Turoff, Business and Management\* Ronald Andrew Warczynski, Business\* Eliyahu Eliezer Werdesheim, Business\*

Thomas E. West Jr., Business Kin Lap Wong, Business Qiuyan Wu, Business Zhimin Yan, Business Chan Wook Yang, Business Jinwen Yao, Business Byong C. Yoon, Business Diana A. Zabalovici, Business Di Zhang, Business Yiping Zhang, Business Ziang Zhou, Business

#### SCHOOL OF EDUCATION

#### **Bachelors of Science**

Jorge Eduardo Alma, Management Ira M. Click Jr., Management Byron J. Conaway, Organizational Leadership Mark W. Cummings, Management Lewis Ely Jr., Management Maryann P. Foxwell, Management James A. Harper Jr., Management Bennie H. Henderson Jr., Management Lloyd R. Ingerson Jr., Organizational Leadership Reginald F. Johnson Sr., Organizational Leadership Brayan Bruce Krepley, Management Gabriel Lamptey, Management Vendette T. Parker, Organizational Leadership Mark E. Person, Management Keith James Phillips, Management Gerald A. Richardson, Management Andrea L. Smedley-Hasty, Management Michael Alan Spochart, Management Jeremy Ryan Tippett, Management Jason E. Tyler, Management Michael S. Wilson, Management

PEABODY CONSERVATORY OF MUSIC

#### **Bachelors of Music**

Tariq Saleem Al-Sabir, Voice Jonathan Baez, Jazz Percussion Heidi Elizabeth Bauer, Violoncello Kathryn Colleen Bradley, Double Bass Samuel R. Brown, Double Bass Eric Finbarr Carey, Voice Alexander Cain Carlucci, Bassoon Belinda X. Chen, Piano Shengduo Chen, Trumpet Tianyang Chen, Harp Lucinda Wing Yin Chiu, Violin Lichia Chuang, Violoncello Alexander Clark, Clarinet Jameson Charles Dickman, Recording Arts and Sciences Alvaro Daniel Durango, *Guitar* Nicholas J. Fitton, Flute William Russell Fossett, Clarinet Zoe M. Fried, Oboe Jarrett Gilgore, Jazz Saxophone Zoæ Joy Rosenthal Hamberger, Voice Megan Elizabeth Heavner, Voice Jessica Anne Hiemstra, Clarinet Nicole S. Hodgins, Voice Yoonji Hong, Piano Jade Huang, Piano Edwin Kenzo Huet, Composition/Computer Music Paul Thomas Hunt, Double Bass Robert Sylvain Kahn, *Clarinet* William Samuel Novick Kass, Violoncello JuHee Kim, Piano Olivia Hyoyeon Kim, Harp SooJung Kim, Piano Svon Kim, Piano Yesse Kim, Piano Sarah Elizabeth Knapp, Horn Hanna Lee, Voice Suzanna Lee, Violoncello Yoo Min Lina Lee, Piano Qinxin Li, Piano

Jorge Aurelio Menendez, Guitar Nonoka Mizukami, Percussion MingYu Nan, Clarinet Robert Neubauer, Composition/ Computer Music Joel Thomas Nygren, Recording Arts and Sciences Lea Pandy, Clarinet Hanul Park, Bassoon Douglas F. Peters Jr., Music Education Andrew Jonathan Posner, Composition Carrie Elizabeth Quarquesso, Voice Andrew P. Remley, Composition and Recording Arts and Sciences Niccolo Seligmann, Viola da Gamba Eun Seon Shin, Piano Michelle Yerie Shin, Violin Brandon Samuel Smith, Double Bass Nicha Stapanukul, Piano Brian Streckfus, Guitar MinYoung Tae, Piano Carolyn Leigh Thomas, Trombone Derek Roger Thompson, Oboe and Music Education Vincent Neil Trautwein, Double Bass Ming-hsuan Grace Tsai, *Flute* Pin-Ching Tsai, Piano Chenchen Wang, Piano Joel Stephen Watts, Recording Arts and Sciences John Williams, *Guitar* Rachel Denise Winder, Saxophone Jiaoyang Xu, Violoncello Wanyue Ye, Percussion Yiwen Zhang, Piano Wantong Zhao, Piano

#### SCHOOL OF NURSING

#### Bachelors of Science, December 30, 2014

Taylor Phippen Adams Lynn Renee Ahlberg Taiwo Ikeoluwa Ajao Ann Marie Albright Elizabeth Erin Anderson Allison Pamela Andrews Deborah Adwoa Antwih Natalie Renee Archer Shannon Kaur Aulakh Rebecca Ariel Backer Madeleine Anne Barab Caroline Lee Belin Ashlee Taylor Belliveau Anna Teresa Bianco Anna Kathryn Sons Biemann Sabrina Marie Bowling Jillian Grace Brems Amy Lynn Brumme Kelsey Anne Cathcart Alexandra Brindza Chapman Eunice Choi Heather Jeanette Colamussi Danielle Josephine Collister Rose Ella Conklin Amelia Ann Cover Hilary Cotter Cranston Michelle Sarah Creeger Jessica Cross Caitlin Susan Crotty Amy Elizabeth Cutino Evi Angela Dallman Dana Michele Davies Elizabeth C. Devasia Katherine Elizabeth Diaz Kaitlin Elizabeth Dicks Andrea Margaret Doersam Sara Rose Drury Dianne Lisa Durano Anne Marie Embertson Morgan Ashley Emmetts Devon Alexandra Everson Ashley L. Fenton Elira Fifo Christine Marie Floyd Bethany Christine Foskett Alexis Nicole Gallagher Stephen Gregory Garratt Kevina A. Gibbs Carter Reeve Gisriel Laura Gleiberman James Hamilton Godfrey III Elizabeth Helene Goldblatt Rachael Elizabeth Goodick

Ashley Katrina Gresh Nyadia Yvonne Griffith Kelly Lynn Hann Michael Brandon Harker Sarah Christine Harmsen Jessica Ann Harnish Ashley Nicole Hartman Jessica Ashley Haszard Ava Voorhes Hauck Heather A. Hightower Brynn Margaret Huffman Kate Lynn Hulbert Ihuoma RoseJuliet Iwe Sneha Jacob Helen Howe Jenny Jennifer Leigh Jensen Christina Lynn Kachulis Jillian Marie Kapturowski Anne Kathryn Keith Tae Youn Kim Noelle Jane Kokinakis Hannah Elizabeth Kroll Emily Danika Kuehn Sarah Stevens Laird Rajesh Lalwani Gina Kristine Lee Michelle Kristen Lee Erin Millov Levitt Georgia Z. Lewis Judy Liu Breanne Michele Lohman Jacquelyn Damia Lohman Jessica Lee Lucas Robin Vannary Ly Kelsey Alexandra MacDonald Margaret Ann Macdonald Ana-Alicia Marquez Karlha Matta Kevin Thomas McAndrew Kaitlin Leigh McHenry Lawrence Joseph McLennan III Hannah Kristvik Meadows Mary Elizabeth Migliarese Margaret Jean Marie Short Mills Kaitlyn Estelle Mole Megan Rebecca Moore Amy Morales Chelsea Marie Nahill Christian M. Nerv Elizabeth Rasfeld Norris

Paula Rae Notrica Hailey Noel Nygard Deepa Oja Kerman Manijeh Patel Elizabeth Jean Peters Marie Sarah Pillari Sara Prince Marjorie Rebecca Purnell Brandon Michael Raab Caitlin Rathburn Patricia Kathleen Reinhardt Ashlev Yuran Ro Jennifer J. Ronald Chelsea Marie Rouleau Jacob Roush Diana Rumbo Lara Elaine Saberon Nina Hondo Sasso Ashley Cecelia Sayles Laurel Marion Scheleen Megan Marie Schulz Kelly Nicole Schymanski James Gregory Seashore-Ludlow Kenneth Karol Seidl Matthew Lee Semerad Justin Harris Shear Michael Anthony Shelley Laurence Joseph Sheridan Liesl Marie Sieber **Rajdeep Singh** Emily Kendall Smith Leah Rose Smith Katelyn Nanette Soulard Alaina Lourdes Springsted Daniel Joseph Stranix Renee Jean Stretchberry Klara Ann Stumpf Stephanie Marie Swenson Kathryn Holly Tasker Amelia K. Tenberg Keitra L. Thompson Harmony Beth Tiffany Kirsten Loren Autumn Triemstra Angie Tsay Dylan William Turner Katherine Ann Vaillancourt Rachel Grace Vann Zhen Yi Wang Crystal Noel Warffuel Caroline Elizabeth Warren

BACCALAUREATE DEGREES

Amanda Lynn Weber Stephanie Nicole Weigman Kathleen Davis White Tess Alexandra Whiteside Jessica MarlÄne Williams Patricia Anne Ong Yam Jessica Zapiain Melissa Marie Zidar

# Bachelors of Science, July 24, 2015

Cailey Clarke Aburn Rachel Dorothea Aina Alli Elvsia Marie Amoroso Carol Elizabeth Balbir Emily Elizabeth Ballantyne Carrie Anne Baran William Patrick Bartels Marisa Athas Beck Molly Atterbury Bernard Alex Landon Bluemke Katie Lynn Boudreaux April Louise Bowen Colleen Nicole Bray Shelby Tyler Brumback Natalie Sarah Burns Danica Marie Burroughs Patricia Gerhardt Buzelli Mary Katherine Callahan Ashley Nicole Cannizzaro John A. Carr Cecile Kormanik Carson Melinda Mai Fung Chau Xiao Min Chen Alexandra O'Neill Chernow Timothy Branfield Claus Erin Ashley Colleran Cierra Renee Crosson Merebea Metcalf Danforth Lia Santina D'Angelo Laura Michelle Davis Diana Andrea Duarte Amanda Marie Dunlap Matthew Joseph Dwyer Joseph Floyd Dyer Sophie Ehrlich Engel Ellen Carson Evans Anna Frafield Eva Allison Garvey Michael Philip Abracosa Gilliam Anna Morgan Gleave

Jennifer Ellen Gold Katherine Elizabeth Graap Nicole Capiral Grafilo Jessica Loren Green Erique Erik Gumbs Rachel Jane Guthridge Rachael Grace Hanna Kaley T. Hardy Chauntelle Naomi Hayes Alexandra Nicole Hembree Samantha E. Henan Theresa Marie Higgins Julia Diane Hill Antonia Bertucci Hoehn Michael Osagede Imomoh Ogechi Nwauche James Emily Margaret Johnson Alexis Chanté Joynes Julia Junn Rasha A. Kafi Brittany Erica Kelly Cheyenne Dustin Kettler Sophia Oak Jean Kim Sean Campbell Kirk Rachel Sunmi Koh Karl Frueauff Koshlap Ivana Aka Kovacikova Suzanne Townsend Levitch Xin Li Leoshay Tamara Lobley Sally McFadden Lorenz Brianna Loughridge Sherah Hurley Lowery Kimberly Kay Lubrano Megan Jane Mack Micah Gordon Malenfant Candace Elizabeth Martin Julieann Elizabeth Martin Andrea Jane Matter Taylor Blake Matthews Maria S. Melnyk Gregory Norbert Martin Meyer Amy E. Moon Stacey Anne Neilson Kelsey Joan Palladino Criselda Aquino Pascual **Tiffany Brooke Price** Blythe Elizabeth Przekop Genevieve Adelle Purcell Maria M. Rankin Heather Caitlin Reinig Ria Natasha Rodney

Lauren Kelly Rosales Caroline Eileen Ruhl Mercedes Sue Safarpour Pamela Joy Logan Salud Emely C. Santana Ana Carolina Barbalho Silva Christina Marie Smith Madison Whitney Soderstrum Evan D. Sommer Katherine Julia Spence Farrah Lea Rostamizadeh Stern Meg Kathryn Steuer Blaire Olesya Thomas Aaron Jefferson Timko Tindall Raquel Traub Marion Archer Trumbull Kathleen Meagher Ughetta Alexandra Valencik Emily Anne Vaughn Valerie Rita Vesnaver Kaitlin Theresa Warnock Elizabeth Victoria Warren Emily Anne Watterberg Christine Marie Weikert Margaux Star Weinberger Kathryn Lilly Wendt Kristie Ann Woo Sonja Elsada Wood Lan Xu Allison Marie Yager Cristel Yi Alison Brooke Young

#### G.W.C. WHITING SCHOOL OF ENGINEERING

# Bachelors of Science in Applied Mathematics and Statistics

Marc Evan Alvarado\*\* Andrew William Austin *also International Studies* Bardia Bararpour Matthew Brian Berry *also Economics* Ilana Danielle Bookner Elaine Han Chao\*\* Felix Xavier Contrera Landa\* Diane Theresa Duros *also Computer Science*\*\* Nicholas Benjamin Gipe

Tony Hiranniramol Alexander Dean Hochberg Stephanie Kaitlin Hom\*\* Maya Leila Jabbour\* Christopher James Kinkade also Economics\*\* Bongju Lee Eun Sol Lee Kurt S. Lee Derek Leung Lilly Li Sherwin R. Lott\*\* Joanne Christine Mariani Paul James Markakis Shaun William McCarthy Saharsh Mehta also Economics and Natural Sciences Area Edward Pang Baturalp Peltekoglu Mili Rov\*\* Charles G. Schneiders\*\* Alex Ryan Sher Michael Joseph Spadaro Jr. Mark Wang Marni Jordyn Wasserman Bryn Marshall Watson\* Alicia Eleanor Wei\*\* Yixiao Wu Ling Tak Melinda Yau Andrew Jiening Zhong also **Economics** Mark Andrew Zimmermann

# Bachelors of Science in Biomedical Engineering

Mohammad Salahaddin Abubaker-Sharif Xindi Ai Steven T. Albers\*\* Brian William Allen Linus Amarikwa Anvesh Kumar Annadanam\*\* Kalyna Leigh Apkarian Sean Michael Bailey\*\* Mary Boules Banoub Lindsay Rachel Bauer Johnathan David Beal Nicholas Robert Bello Rohit Bhattacharva Patawut Bovonratwet also Applied Mathematics and **Statistics** Kelsey Lara Bower Nathan Alex Buchbinder

\*Degree conferred August 22, 2014 \*\*Degree conferred December 30, 2014

Stephanie Marie Cabral also Applied Mathematics and Statistics Wesley Chun-him Chan also Applied Mathematics and Statistics\*\* Bernadette Hon Yin Che George Major Chen also Electrical Engineering Stephen Sinian Chen also **Computer Science** In Young Cho\*\* Nicholas David Clyde also Philosophy Maxwell Jordan Collard also Mathematics Christopher Ryan Corbett also Applied Mathematics and **Statistics** MacIntosh Grant Cornwell Angelo Joel Cruz Jr. Sarah Marie Daggett Jessica Wynne Davidson Alex Raymond Diehl Thomas Du Amanda Lynn Facklam Albert Kim Feeny\*\* Lindsey Rose Fernandez also Computer Engineering\*\* Rodolfo Gabriel Finocchi Christian David Followell\*\* Tomas Adolfas Gaigalas also Applied Mathematics and Statistics Sakina Hamzaali Girnary Kayla Laurén Gregory Rohit R. Gummi also Applied Mathematics and Statistics Darian Hassan Hadjiabadi also *Computer Science* Emma E. Hafermann Shizue Haffeman-Udagawa Kathryn Charlesworth Hahn Andrew Wright Haling Zheyi Han Stephanie Li Hao Nicole Grace Hayes\* Malvi K. Hemani Allison Pilar Henry Margo B. Heston Riley Logan Howard also Materials Science and Engineering Haley Ginyn Huang Jay Young Im also Applied

Pattawan Jareonvongrayab also Applied Mathematics and Statistics Patrick Murray Jongeneel Austin David Jordan also Neuroscience Ming Kang also Applied Mathematics and Statistics Yu Min Kang Ioana Karanxha Elaine Laura Ke Matthew John Kercher also Applied Mathematics and Statistics\*\* Kwanghyuk David Kim Renu Kondragunta also Applied Mathematics and **Statistics** Taylor Lynne Lam April Min Hyae Lee also Applied Mathematics and **Statistics** John Jinyoung Lee also Computer Science Daniel Jacob Levenson\*\* Kristina Xiude Li also Applied Mathematics and Statistics Iessica Shinwei Lin Katherine L. Long Carly Susan Loveland Jonathan J. Lowrey also **Economics** Albert Kang Lu Nahyr Sofia Lugo-Fagundo Marc Andrew Madore Jordan Aaron Mandel also Applied Mathematics and **Statistics** Sean Davis Mattson Alexander Robert Monroe also *Computer Science* Julien Laurent Pierre Morival Allison Gayle Moyer Peter John Nelson Lisa Ni Mizuha Ogawa also Applied Mathematics and Statistics\*\* Phillip Jounghoon Oh also Applied Mathematics and **Statistics** Amanda Megan Ojeda Sophia E. Ottleben Burak Arda Ozilgen Mario Padilla

Jason Hyung Seok Park

Nicholas Anthony Phillips also Applied Mathematics and **Statistics** Megan Giannina Pino Chloe Elizabeth Quinlan Pranay Gundavaram Rao Akash Ray\*\* Tatiana Andrea Rypinski Azwad Asef Sabik Michael Franklin Scarlett also Applied Mathematics and **Statistics** Nate Schambach also Applied Mathematics and Statistics Chi Young Shin Lucas Scott Shores Jason Alexander Geoffrey Smith Jacqueline Healy Starrett Benjamin Joselson Strober also Applied Mathematics and **Statistics** Sandya Subramanian also Applied Mathematics and **Statistics** Landy Tian Sun Danielle Marie Tinio\*\* Sai Vangala Wesley Charles Wagers Jiarui Wang Jinchi Wei David Haokun Wu\*\* Eric Glen Xie\*\* Kyle Xiong Peter Yao Frances Ann Zappone Bofeng Zhang Calvin Chen Zhao Tony Jufeng Zheng Vivian Zhou also Applied Mathematics and Statistics Bachelors of Science in Chemical and Biomolecular Engineering Alex G. Abramson\*\*

Ryan Ariel Alvarez\*\* Abraham Anonuevo Frank Salvatore Augello Jordan James Baker\*\* Galit C. Benoni Zachary Andrew Bentley Daniel S. Bier Alyssa Rose Brann *also Spanish* Alison Burklund

Lucas Xavier Chambers Purna Chandrasekhar Weitong Chen Allison Tamira Chisenhall Myoung Hyun Choi Won Kyu Choi Raeeun Chung\* Megan Claire Cohan Victoria Maria Dawe Xin Fang\* Chloe Kathleen Ferris Colleen Marie Fridlev Magdalena Lee Fruehan Alec Kyler Greenberg Peter Thaddeus Grzesik Seth A. Hochberg Anne Marie Hosler Meghan Johanna Hotz Dylan Alexander Howie Jason Hu Ling Huang also Applied Mathematics and Statistics Jun Woo Jeon Evan Wayne Johnson George Alexander Justin Nathaniel C. Kato Megan Elizabeth Kelly Min Goo Kim Kiwook Kwon Matthew Lehmann also **Economics** Aaron Lee Lerner Isaiah Reuben Levy Tanner Jonathan Liechty\*\* Nicholas Francis Longe Jennifer Lu\*\* Megan Rose Mahoney\*\* Shaun Carey McGovern\* Shreyash Sunil Milak Altar Mert Munis **Pavlos Pachidis** Parth Ujjaval Patel\*\* Michael Stephen Phippen Beril Polat Brian Samuel Redick Christian M. Salera also Applied Mathematics and **Statistics** Megan Marie Schwarz Eric Montgomery Scott Zachary Smolsky Thomas Michael Solomon Hatsune May Sumi\*\* Si Qi Tan\*\* Joshua Paul Temple Adam James Torres

\*Degree conferred August 22, 2014

Mathematics and Statistics

\*\*Degree conferred December 30, 2014

Chanon John Tuntivate Meera Rebecca Valliath Walter Xavier Vilcarino Paul Samuel Vitale James Benson Weber Jonathan Zalman Weinreich Lien-Chun Weng\*\* Wadsworth Alexander Williams II Wei Hsi Yeh\* Eugene Jisu Yoon Hyun Soo Yoon

# Bachelors of Science in Civil Engineering

John Francis Boutillier Shizza Fatima Jonathan Moore Hornyak Ann Kristine Nuevo Mendoza Isaiah Matthew Sampson Martin Julius Scheuring Octavia Naomi Williams Stephen David Wong also Sociology

# Bachelors of Science in Computer Engineering

Victor José Amaral Sarah Day Azody also Electrical Engineering Jackson Albert Berger Vamsi Chunduru also Computer Science Ryan Gregory Cropp also **Computer Science** Julia Suzanne Deutsch Frank Charles Forelle Jr. Jason Daniel Gallagher also Electrical Engineering and Applied Mathematics and **Statistics** German Alejandro Gonzalez Rivas\* Vincent Huang Eric Michael Kelley Morris Haim Kraicer Timothy Paul Mullen Upas Narayan also Computer Science Timothy K. Ng Kevin Patrick Rowland George Sebastian Scott Thoms Jesse Xing

# Bachelors of Science in Computer Science

Alexander George Atanassov Jeffrey David Burka Katie Marie Calabro Maxwell Dickey Chandler N. Fuller\*\* Benjamin Nathaniel Glickman also Applied Mathematics and Statistics\*\* James Edward Gliwa Laurence Samuel Goldinger Matthew I. Gorelik Sarika V. Halarnakar Matthew David Hauser Mason Zachary Hemmel Jade Huang Daniel A. Jalova *also Computer* Engineering Yvonne Jiang *also Biomedical* Engineering Gabriel Kaptchuk also Electrical Engineering Tiffany Ko Gregory Matthew Kogut Tuvia David Lerea Jerald Wu Liu Da Lu also Applied Mathematics and Statistics Cain Lu\* Carlo Orlando Olcese Thomas Broderick Niels Ott Jacob I. Pines Jonathan Nathaniel Rivera\*\* Nicholas Jerome Sangiamo\*\* Emily Alice Scher\*\* Stephen Seo\* Samantha Sihui Siow Matthew Brett Small Daniel Shore Swann Ashleigh Catherine Thomas Mark Daniel Tsao Rebecca Lauren Wilson

# Bachelors of Science in Electrical Engineering

Kevin Michael Zhang

Michael A. Cerabona *also Computer Engineering* Andrew N. Ding *also Computer Science* Amanda Daniella Garcia

Lara M. Gatehouse Chad Thomas Howard Bill Hyokun Kim also *Computer Engineering* Sushant Murthy Komanduri Grace Lee Richard Li also Applied Mathematics and Statistics Ian Mitra McLane also Romance Languages Daniel Ruben Ovelar de Flammineis Anthony Joseph Pergola also Applied Mathematics and **Statistics** Berkay Polat Troy Everett Sarpen Alexander Frank Simonelli Krzysztof Konrad Sitko\*\* Jane Elizabeth Sussman\*\* Nicholas Joseph Wood Munan Xu also Computer Engineering Eric Jianyi Zhu

# Bachelor of Science in Engineering Mechanics

Jorge Luis Alvarado

# Bachelors of Science in Environmental Engineering

Aryel F. Abramovitz Joshua Brad Barza Jared Anthony Beekman\* Andrew Robert Haven Bobesink Michelle Anne Bohrson Ania Chandler Celine Angela Cua Amanda Paige Darrow Michael Zehua Gao Roderick Samuel Go Mirza Asfandiyar Hussain also Applied Mathematics and **Statistics** Jocelyn Hwang Frederica Giovanni Lamar Rachel Misako Lew Vanessa Jessica Pan Michael Peven Ariel Quintana Katherine Ann Schwarz

#### Jennifer Lynn Stone

# Bachelors of Science in Materials Science and Engineering

Letitia Kai-Ling Chim Michael Emerson Cunningham Rustin Golnabi Matthew Stephens Gonzalez Toni-rose Maico Guiriba Karen Han Sarah Ann Hewes Ian James Hooley Hannah Ruihan Jin Thomas William Swift also Economics Abraham Jian Han Tan also Mathematics Hugo Jake Uvegi John Michael Vandermark

# Bachelors of Science in Mechanical Engineering

Yvana Daniella Ahdab Yun Ho Ahn Abdulmohsen Mohammed Al Belushi John Joseph Bacon III Roger Edward Banks Lucas Forest Broganer Nicole Carolina Cade-Ferreira Megan Elizabeth Carney Patrick Ryan Carney Ronald William Caspers II Andrew Paul Ceruzzi Wesley Ross Cohen Matthew Christopher Daum Alexander Leonidas Demas Ionah S. Eidman Jacob David Enterlin Wesley John Ericksen Drake Leander Fisher Ioshua Isaac Friedman Samuel Frishman Joseph Chuck Hajj Bailey Grace Hannon Joseph Michael Talve Heaney Young Jae Hue Ryan William Johnston

#### BACCALAUREATE DEGREES -

Tucker Gordon Kearney also Mathematics Bobak Toussi Kiani Yoon Kyoung Kim Gregory Harris Langer Jong Won Lee Michael F. Levidy Thomas Y. Liu Walter Goldston Mayfield David Martin Morra Alexander Keith Naticchia Catarina Amarante De Oliveira Neves Demilade Odutayo Obayomi Dev Chandrakant Patel Omar St. Clair Randall Jack F. Riley Evan Wyatt Rodbell Welles Pierce Sakmar Thomas Bruce Schwietz Alexander Andrew Spinos Edward William Staley Austin Thomas Stecklair Ryan T. Stolz Alexander Michael Szigeti Jonathan S. Ung Sri Krishna Uppaluri William Matthew Wagers Kyle Peter Wall Martha Frances Whiting Ian Michael Wilkes also **Computer Science** Maxwell Ethan Mckenzie Yaron

#### **Bachelors of Arts**

Michelle Ann Ho *also Writing Seminars\** Christopher Raymond Moy Catherine Shiau

### Bachelors of Arts in Applied Mathematics and Statistics

Charlotte Genevieve Elwart Ranita Rhea Ghosh, *also Economics* Craig Andrew Hoelzer *also Economics* Jei Wook Moon *also Philosophy* Darren Jing Yu Wong *also Economics\*\** 

# Bachelors of Arts in Biomedical Engineering

Akshay Chitturi Stacy Young Bin Gil

Bachelors of Arts in Computer Science

Anthony Michael Dillon Lee also Film and Media Studies\*\* Juan Manuel Marron

# ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES

Bachelors of Science in Molecular and Cellular Biology

Nathalia Aldana Lajari Anne Lucas George Axiotakis Jr. Misa Marie Baum Olivia Rebecca Berman Ellen Marie Bruner Tyler Scott Bryant Mustafa Anees Buxamusa also Economics Sunny Shengyuan Cai also East Asian Studies Caryn Nicole Carson Caitlyn Elizabeth Cennamo\*\* Theodore Jun Ming Chan Patrick Chang also Public Health Studies Ivan Chen Joseph Ryan Connors John Anthony Cotoia Adam Leeteen Dai\*\* Robin Du also Neuroscience\*\* Benjamin Christopher Ford also East Asian Studies Gregory George Fuller Alexandra Rachel Grossbarth Selena Marie Guerrero-Martin Noah Guy Lewis Guiberson also Neuroscience Chaylene Marie Kaleonahenahe O'kamalei Guinto Katherine Elizabeth Hamlet Muhammad A. Hamza also Psychology

Grace Verhage Hancock Parviz Daniel Pastor Hejazi Brandon Ji-Hao Hsu\*\* Yiiia Hu\*\* Victoria Huang also Public Health Studies\*\* Nicholas Alexander Igo Isatou Jawara Alice Caroline Jiang Melissa Mary Jones Peter Nikolaevich Kalugin also Mathematics Kameko Makanalani Karasaki Nicholas Kaulike Akahane Kawasaki\*\* Iin Wan Kim Amanda Elizabeth Krosche\*\* Alexandra Isabella Kuhajda HyunJong Lee Sun Joo Lee Alannah Nyssa Lejeune Ross Shane Liao Samantha Yvonne Lux also Near Eastern Studies Derek Thomas MacMath also Italian\*\* Jordana Gertie Meisel Nino Joseph Nastasi Katarina Thuy-Dan Nguyen Jose Ulises Nino Rivera Sarshan Rubintheran Pather\* Sudarshan Suresh Kumar Pinglay also Philosophy Sahini Pothireddy Sarina Amanda Raman Oscar Eduardo Reyes Gaido Katherine Calligan Rogers Prithwijit Roychowdhury also Anthropology Enrico M. Scarpelli\*\* Frederick Andrew Schozer Amit Kumar Sharma\*\* Diane Danbi Sohn Sainikhil Sontha **Emmanuel Soto** Sara Kimiko Suzuki Benjamin Edward Szatanek\*\* Tammie Lee Tam\*\* Alice H. Tao\*\* Katherine Mai-khanh Tran also Public Health Studies Tiffany Laurel Tu Skyler Andrew Uhl Rebeca E. Vergara Greeno also Romance Languages

Ryan C. Walsh Alexandra Christine Walton Weilun Wang\*\* Macie Taylor Wilkins also Spanish Peter Bartlett Wu\*\* Bettina Wunderlich Fangzhou Yu

# Bachelors of Science in Neuroscience

Destiny Dawn Bailey Anna S. Belous Janice Maame Bonsu Aaron S. Bower Kwasi M. Bowman Jessica Lynn Brown Yue Cao Michael Murray Caplan James Anthony Caracoglia Stefano Andrea Castagnola Carlos Xavier Castellanos Robert Yuan Chen Pedro Cortes Bryn Alexandra Cross also Cognitive Science and Psychology Devon Elizabeth Cross also Cognitive Science and Psychology William Matthew DeGouveia David Dong Christopher Figueroa Nathalia Jeanine Gibbs Zachary Seth Goodman Tai Kyung Sohn Hairston Stacey Josephine Hall Shannon Marie Herndon also Spanish Evan Joshua Hess also Molecular and Cellular Biology Chadwick S. Hickman Alexandra Elizabeth Hightower Kylie Wills Holden Mir Shanaz Hossain also Molecular and Cellular Biology Leah Anne Jensen Aaron Zachary Katrikh *also* Molecular and Cellular Biology Yoo Jin Kim also Spanish

Margaret Elizabeth Kneifel Trisha Deepak Lala Julian Dominique Lane Audrey Christine Leasure Lauren Michelle Lipshutz Nicholas Joseph Lukish Rebecca P. Marcus Vanessa Markgraf **Emily Frances Mendez** Brandie Alexis Morris Harry C. Ngai Mackenzie Bernice Norman Leslie Melina Ocampo Keity Mey Okazaki Norah Starkston Oles also Molecular and Cellular Biology and Spanish Jessica Hyunji Park Jun Hyun Park also Molecular and Cellular Biology Joshua Park Ryan Barlow Patterson also Molecular and Cellular Biology Luis Felipe Rendon Elizabeth Young-Jin Rha Alejandra Patricia Rodriguez Brian Adam Rodriguez *also* Biology Liana Chaney Sanders also Philosophy Ryan Connor Schneider Chelsea Sue Camacho Sicat Katie Elizabeth Silva Victor Sobolev also Psychology Mark Lawrence Spencer Elliot Jacob Miller Stryker Danielle Yukiko Sullivan Harry William Sutherland-Foggio also History of Science, Medicine, and Technology Alexis Andrie Toliver Doris Melania Valenzuela-Araujo Cristina Viguera Altolaguirre Dillon Thornton Ward Joanna Lynn Wexler Courtney Merrick Whitelock Priscilla Yan Do Yeon Yoon

#### Hannah Rose Zimmerman

# Bachelors of Arts in Neuroscience

Hee Kyung Baek\*\* Gabrielle Teresa Drummond\*\* Ryan Alexander Gallo\*\* Saksham Gupta\*\* Kevin C. Kuo\* Michael Timothy McCartin Jr.\*\* Lauren Menendez\*\* Aditya Mithal\*\* Dennis Howard Pang\*\* Marisa Margaret Santoru also Psychology\*\* Mitchell Dean Silver\*\* Aniqa Tasnim\*\* Brian Tung\*\* Marija Vasiljevic\*\* Martin Ventoso\*\* Lauren Katherine Vignaly\*\* Joshua Paul Williford\*\* Yi Stephanie Zhang\*\*

# Bachelors of Science in *Physics*

Paul Robert Bewak also Mathematics Peranat Dayananda also **Mathematics** Hannah Jacqueline Hughes Alexander Raymond Hurowitz also Mathematics George Xiang Yu Jiang also **Computer Science** Robert Sylvain Kahn Kelly Lampayan also Applied Mathematics and Statistics Sunyan Lee Grace Julia Mumby also **Mathematics** Georges Obied also Mathematics Matthew Aidan Petroff also **Computer Science** Graham Wilson Smith also **Mathematics** Joy Elizabeth Turock\*\* Emily Gail Wagner Daniel Affelder Weissglass also **Mathematics** 

# Bachelors of Arts

# Anthropology

Julia Elise Broach Avraham Schiller Bronstein *also Economics* Anita Chandrasekaran\*\* Julia Grace DiMauro Sungbae Paul Park\*\* Alyssa Nicole Zelicof

#### Archaeology

Justin Anthony Falcone Danielle L. Gilbert *also English* Molly Chisholm Martell *also Anthropology\*\** Emily K. Rezes *also History of Art\*\** Alison Hope Tretter

#### **Behavioral Biology**

Lara Michelle Baez Alexandra Delaney Baker Hannah Whittingham Benn Tanner William Brown Nicola Mariano Cinquepalmi Connor P. Galvin also Psychology\*\* Sophia Eugenie Heitmiller Jillian Lane Kiera D'Shay Mason\*\* Aravind Menon Deborah Samantha Novoa also Spanish Sade Niomi Rodriguez Anjali Shankar Julia Silverman Cassidy Anne Taylor\*\* Alyssa Jacqueline Tethal Sierrah Diondria Travis Anne Elyse Vipperman-Cohen Hayley Lynn Weidenbenner

# Biology

David Kwaku Boamah Kim Ann Bronson Noe Cabello Payton Maria Clover\*\* Lisa Del Rio Samantha Aine Donis Yuchen Duan Andrea Felice Fields also Writing Seminars Jennifer Huh\*\* Luke Tyler Jenusaitis also Near Eastern Studies Ali Casey Zouheir Kassem Iulia Lee Kim Ienna Michelle Leser Ingrid Ma also Film and Media Studies Iordan Alexander Martinez Sarah Elizabeth Meeteer also Earth and Planetary Sciences Phillip Kendall Alexander Montgomery also Near Eastern Studies Alejandro Ojeda Philip David Sang Sunniel Yu Daniel Eduardo Zatarain

# **Biophysics**

Connie Singyi Chang Jeffrey M. Granja *also Chemistry* Ravirasmi Jasti Eddie Chak Hong Kong\*\* Aravind Krishnan Joel Abraham Pally Elmer Hyunchul Rho *also Physics and Applied Mathematics and Statistics* Nirvan Sengupta *also Applied Mathematics and Statistics* Rachel Ann Wolinsky

#### Chemistry

Ross William Barber Jonathan Michael Granger *also Biology* Andrew Raab Griswold Thomas McCarron Harper Nathan Philip Haselton\*\* Mahdieh Hosseini Ardian Latifi *also Biology and Spanish* Emily Lynn Maling Wendy Mo Stephanie Boey Ng Kishan H. Patel\*\* Krishna Kirit Patel Eric Christian Ryberg also Earth and Planetary Sciences Evan Peter Tassis\*\* Stephen Anthony Witkiewicz also Film and Media Studies Ryan Alexander Woltornist\*\* Ryan Edward Wood\*\*

#### Classics

Anke Katarina Ehlert Woojin Kim *also History* Justin Joseph Onusic\*\*

#### **Cognitive Science**

Lloyd August Achey Ruu Harn Cheng Louisa Tess Cornblath B'lane S. Daly Ajai Singh Dhadwal Edgar Allen Fiallos also Philosophy Sophia Elizabeth Fleming-Benite Sarah Savieira Goodman Barbara Alexandra DelCarmen Holt Aurora Congxi Jin Tyler Zarus Knowlton Joshua Aaron Langfus also Philosophy Jennifer H. Lee Mahzi Donovan Malcolm Michael Dean Meagher\*\* Jorge Aurelio Menendez Christina Soo-Jung Nam also History of Art Cara Ogochukwu Orji Zoe Loretta Ovans also English Eleni Katherine Padden also Psychology and Writing Seminars Victoria Faillace Perez Annie Rhee Maria Ioanna Touloumes Allison Joy Widen also Psychology

#### Earth and Planetary Sciences

Adam R. Dec Hyun Tae Kim\* Nicolette Lillian Roque Alexander Jordan Sivitskis *also Classics* 

#### East Asian Studies

Kathryn Joyce Botto *also* International Studies and Sociology Paul Jhi-sung Shin Dakota Gene Kamahele Walker

#### Economics

Alexander Cruise Abramson also International Studies Stephanie Dana Binder Kaitlin Elaine Brooks Alexandra Charlotte Brown also East Asian Studies Andrew Nicholas Carey also **Computer** Science Matthew Stephen Carey Giancarlo Antonino Casella Christopher Paul Casey Edward Philip Castronova Jr. Nicholas Zelna Cerrone Nathan Junghoon Choe Patrick T. Civetta Ryan D. Conroy also Anthropology John J. Corbett III also Spanish Robert Anthony D'Annibale Dylan Bradshaw Davis Rachel Lacina Davis Kelly Marie Dunn Daniel Gilbert Elkin Katherine Cordon Emerson Robert Thomas Enright Christian Dane Ercole Zhou Fang *also Mathematics* and Applied Mathematics and **Statistics** Kyle Edwin Fischer John Warren Frame V also **Mathematics** Alexis Paige Gannaway Andrew Paquette Gelston\*\* Robert M. Goldhirsch\*\* Ariel Jacob Goldschlag David Scott Greenbaum Andrew Russell Greene also Applied Mathematics and Statistics Michael Ray Grewe

James Robert Hammer Samuel R. Harris also Applied Mathematics and Statistics\*\* James Alexander Holder Christopher Robert Ibrahim David Michael Israel also Applied Mathematics and **Statistics** David Harris Josephson John Patrick Kelly Jung Won Kim also Applied Mathematics and Statistics\*\* Yun Jung Kim Kyle S. Kosmider\* Stefan Kouumdjiev also International Studies Alvaro Lasa Thomas Joseph Laughlin Joshua William Lewittes Tiffany Yuheng Lin Christopher Edward LoBello Nicholas Eric Maki Seema Elhum Marashi\*\* Sean Patrick McDonald Molly Elizabeth McGlone Simon Leo Osipov Edward Stephen Pagano Spencer Harris Perl Henry John Pfleger\*\* Davide Pini also International Studies Ryan Michael Poehner Christopher James Quinn\*\* Ryan James Rice\*\* Jamasen O'Brien Rodriguez Samuel E. Romanoff Jane Ruan also International Studies Marcelo Victor Sayeg also International Studies Nikhon Schuler WooChul Shin\*\* Joshua Robert Somach Henry Michael Strmac Benjamin H. Tsoi also East Asian Studies Kenko Ueyama also International Studies Cameron Wyatt Vit Simone Weiss also Applied Mathematics and Statistics\*\* Justin Aaron Whalley Ethan Koon Woo

Alexander Joseph Wood Laurence Yu Kwangho Yun *also Applied Mathematics and Statistics\*\** Erica Lynn Zehnder\*\* Shu Zhang *also Mathematics* Xiaoyue Zhang

#### English

Ryan Keates Blake Isabelle Livingston Hale Burden *also Writing Seminars* Kelsey Elizabeth Champagne *also French* Ruth Yo-Ron Chen Lauren Elizabeth Evans *also Spanish* Laura Miranda Ewen Alana Rae Farr Reid Franklin Ginsburg Peace C. Madueme Paul Thomas Vozzo

#### Film and Media Studies

Maxwell John Bowens Maria Hannah Callahan Adelaide P. Crabb Ryan Andres Cunningham also Writing Seminars Yeirim Goo\*\* Joshua Nathan Goodstein Dylan James Hans Seungmin Hwang Joshua Matthew Land\*\* Daniel Francisco Lopez\* William Homer Mason also Writing Seminars Andrea Hope Massaro also Writing Seminars Emily Rose Menken also Writing Seminars Kristen Elizabeth Politis Jordan Samuel Wilner

#### Global Environmental Change and Sustainability

Andrea J. Carrassi Yael Michal Fishbein\* Elizabeth Lauren Fortson *also East Asian Studies* Jasmin Christine Gonzalez

\*Degree conferred August 22, 2014

#### BACCALAUREATE DEGREES

Peter James Huether also Economics Erik Alexander Jorgensen also Earth and Planetary Sciences Justin Lee Lena Miller Megan Kathleen Morrow Guillermo Alexander Ortiz\* Jillian Chi-Ying Tse also Public Health Studies

#### History

Kevin Joseph Cryan also Africana Studies Gabriel Demeter Denis William Mark Dorman also Latin American Studies and Spanish Stephanie Lynn Huie\*\* Muska Kamran also Political Science Richard Michael Kidney Justin Choi Kwong Rebecca Marian Rabinowitz Yonah Azriel Reback Natalie Lauren Richmond

# History of Art

Elizabeth Miller Arenz Bianca Biberaj Emily Carolyn Birge John Francis Donelan *also Economics* Rachel C. Kalina Michaela Emily Kitson *also International Studies* Gianna Gabrielle Puzzo Eve Morgan Rosekind Nicole Alexandra Salevitz Jenna Lynn Santoro Joseph Sacks Shaikewitz Charlotte Angela Sneath Gloria You

# History of Science, Medicine, and Technology

Anita Dam also Classics

#### **International Studies**

Julia Hunter Allen Samuel Conger Austin Annabel Olivia Barnicke also **Economics** Cara Jean Beirne Ryan Frankie Bender also History of Art Katerina Noel Bierwirth also Historv Nicholas Gerard Birnbaum also Latin American Studies Joseph David Boris also Political Science Lauren Manon Gabrielle Bovard also East Asian Studies and Political Science Jefferson McLean Brehm Rebecca Frances Brinkley Logan Alexa Bronson Evan Daniel Brooker Paul Michael Carbone\*\* Samantha Whitney Carter also **Economics** Catherine Moore Carulas Elizabeth Bethany Chen Kaitlyn Marie Coleman Michelle Court-Reuss\*\* Hope Elizabeth Daily also Spanish Khari Omer Douglas also *Economics* Justin David Drechsel Quinn Dunkak Ashley Samantha Emery also Spanish Michael Patrick Faby\* Alessandra Felloni Heather Feng also East Asian **Studies** Jessica Xinyi Fong also *Economics* Jonathan Ka-leung Fong also East Asian Studies\*\* Brad Foulke\*\* Julian Winokur Fox also East Asian Studies Brannock Joseph Furey Maria Isabel Garcia\*\* Hana Brittany Glasberg also East Asian Studies Justin Oliver Grant Nikhil Gupta also Economics Amanda Fay Hobson Chan Min Hong also East Asian Studies Ellie Hong also Sociology and

Jade B. Hsiao Kanggiao Huang Ki Hoon Hur Andrew Gregory Karns also Romance Languages Gyudae Kim Laura Stevens Kokotailo Hannah Michaela Kronick Benjamin Alec Kupferberg Savanna Ruby Leak Samuel Michael David Licker Athanasia Olga Livas\*\* Samuel Aaron Markstein Victoria Rae Marlin Alexandre Eliot Mason-Sharma also Natural Sciences Area Jenna Elyse Maurer Jahan G. Mirchandani Alexander Sadao Mire also East Asian Studies\*\* Ariel Dalia Multak\*\* Paulina Munoz Celada Ashley Patrice Murphy Basmah Yasser Nada also Political Science Colin Sebastian Hedae Pak also Sociology Violette Perrotte *also Public* Health Studies Elizabeth Gordon Pfeffer also Writing Seminars Angela Pyo Georges-Aurelien Emmanuel Quist also Sociology Karen Amanda Reitman also French Rachel Hannah Riegelhaupt also Sociology Ellen Marie Rogers also Economics Eliza Isabel Schultz Edward William Schurr Shereen Tariq Shafi also Anthropology Lucas Jhoon-Sung Shin also East Asian Studies and Political Science Abigail Louise Sia also East Asian Studies\*\* Ji Yeon Song\*\* Taylor Christian Sperin also Spanish Michael Ryan St. Germain Meredith Ragna Stock

William Thomas Szymanski Jessica Louise Teng also East Asian Studies Sydney Marlene Zu You Teng Justine Levine Turner\*\* Paxon Robert Wallace Sean Lindsey White Christian Xavier Wright Lauren Estelle Yeh also Economics Christina B. Yuan also Economics Nicholas Thomas Zazzi also East Asian Studies

#### Italian

Michael Thomas LoPiano also History Haley Marie Lucitt Taylor Leigh Wilkins also English

# **Mathematics**

Ran Ao also Economics\* Anthony John Burzillo also *Computer Science* Travis Michael Collier Diego Alexander Espinoza Vincent Faber also Applied Mathematics and Statistics Sophia Geron-Neubauer Michael Harper Hatfield also Economics\*\* Lauren E. Icken\*\* Venetia Aikaterini Karamitsou also Applied Mathematics and Statistics\*\* Peter G. Kolodziej also Writing Seminars Erica Suzann Kresch Daniva Seitova also **Economics** Tiara-Amani Bria Swinson Nicholas Dragomir Vujic also *Economics* Susanna Wang also Economics William David Welde also Economics Daniel Keith Woods also Economics Lingyi Zhang also Economics and Applied Mathematics and Statistics\*\*

\*Degree conferred August 22, 2014 \*\*Degree conferred December 30, 2014

Spanish\*\*

#### Natural Sciences Area

Ikeoluwa Motunrayo Adeshina Alexander Cain Carlucci\*\* Brianna Nyco Conley Alyssa Carroll Conti Christian Echevarria Samantha Haley Fox Jeongho Lee Deanna M. Loh\*\* Clifford Shing Ho Lok\* Marie Catherine Luebke Richard Charles McKinnon Jr.\* Emily Michelle Nagourney Melissa Kishore Sajnani Nuo Shi\*\* Allison Camille Watts Patrick Joshua Young Sahil Arshad Zubair

#### Philosophy

Gabriel Blamo Bedell Philip Augustus Ingaglio Dongju Lee Luke Sclichter Mayhew Jacob Harris Stern also International Studies Jason Leland Zhang also Economics\*\*

# **Political Science**

Nicole Babaknia Bedram Bararpour Sunakshi Bassi Arafel Tyra Buzan Yarden Jordan Carmon also International Studies Amanda Katherine Coren Imani Kai Daniel also Psychology Andrew Nicholas Doris Brady Matthew Faby Harriet Catherine Charlotte Green Zachary Maxwell Hecht Thomas Derek Hudgins Taylor McInerney Jansen Zaire Kiema Julion also Economics Bronson Lane Kelly Patricia Medta Kingkeo\*\*

Victoria Alexandra Lee also History of Art Jeremy Lin Theodore Blake Owen Michael Charles Pellegrino Nikko Brooks Price Kaushik Padma Rao Caroline Sara Resnick Max Stuart Roberts Jake Rogers Rahul Sabbineni\*\* Lindsey Ryan Sanborn Rachel Elizabeth Schnalzer also English Wells Thomas Stanwick Jr. Aaron Joshua Stern Madeline Leigh Streiff\*\* Daunte Joseph Weaver-Johnson\* Carter Yeung Ahmed Hesham Ahmed Fathy Youssof Kevin Gary Zepfel\*

#### Psychology

Neena Merine Abraham\* Madhvi Aggarwal\*\* Elizabeth Willson Bagdorf Benjamin Auguste Barsky also Public Health Studies Brandon Daniel Benn\* Elijah Harris Barnhart Bernstein Jong Hyuk Bhak Sarah McKenzie Biron Wiebke Blaszcyk also Writing Seminars Katherine E. Brooks also Sociology Jennifer Bowen Cook Marilyn Filkins Corson\*\* Oluwavemisi Ololade Danmola\*\* Meagan Christine Donohoe also English Michelle Hannah Edelson\*\* Jameson Barnwell Evans Mariana Nunez Giraldez\*\* Alaina Irene Gold Jordan Elizabeth Gray\*\* Kivilcim Gunay Timothy Han

Ana Elizabeth Henrich\*\* Alice Huang Zoe Elena Jack Kinu Koye Johnson also Spanish\*\* Dae Iin Kim Laura Gabrielle Kovach also Spanish Patrick Alan Lawson\*\* Gi Young Lee Erik Jonathan Lim Jillian McCully Liwacz\* Frances Ford Loeb Valeria Martini Brenna Rose McLoughlin\*\* Jenny Emmaline Mitchell Joi Danielle Moore\*\* Esette Negussie Rachel Nicole O'Boyle Sang A Park Melissa Pedroza Naomi Elizabeth Blair Pitkin Jensen Hart Reiter Michael Philip Rizzo Rex Lee Sanders\* Thomas Jiantao Shi Alex Marissa Silver\*\* Lauren Avery Soll Paulina Katie Valderrabano Corey Daniel Vent Sergio Vera Samuel Kingston Weissler\*\* Lauren Michelle Young\*

Christine Chi Won Hann\*\*

#### **Public Health Studies**

Benjamin Aaron Ackerman Aderinsola Aina Aderonmu Akriti Ahuja also Writing Seminars Elizabeth Damilola Akinsoji Billy Joe Ammons\*\* Braden Michael Anderson **Jill Nicole Anderson** Hani Michael Annabi Nicole Ilana Aronson Karen Elizabeth Baddoura Sinmidele Anne Badero Elaine Baik Leah Geraldine Barresi Christina Bastida

Anna Michele Bellantoni Eleanor L. Bergren Jason Jeko Blades Anastasia Katerina Bogdanovski George Bugarinovic also Natural Sciences Area Halev Anne Bush Lindsay Anne Caldarone\*\* Alice Sofie Yi-Jean Chen Jami Man-yan Cheng Hye-Yeon Cho Isabella Victoria Ciuffetelli Alamo Asia Coladner Cesar Gerardo Concepcion Matthew Stephen Connery Raquel Almetta Cruz-Stratton\*\* Lauren Michele Day\*\* Isha Keyur Desai\*\* Rebeca Amaris Yishay Diaz-Reyes also History of Science, Medicine, and Technology Isabelle Larina Saskia Dieckmann Aislinn Patrice Dolan Sean J. Donohue Robert Matthew D'Orazio\* Carolyn Sandberg Drogt Maurice Dashawn Dunn Lidiana Teresa Economou\* Ahmed Sayed Elsayyad Stacy Madison Fairey Natasha Simone Fletcher Kyle Stephen Flynn Kaylin Shae Gonzalez Michelle Paige Greenman Arie Abraham Grunberg Pavitra Venkata Gudur also Natural Sciences Area Meredith Grace Haddix also Spanish\*\* Gerard Dean Hampton Shawdae Monica Harrison Abby Anita Hartmann also Spanish\*\* Zeba Hashimi\*\* Nadine Hassan Melyssa Renee Haubenstricker Katherine Elizabeth Hein also Psychology\*\*

Tara Brooke Lawrence also

Nina McAden Henage Samantha Carly Hirsch\*\* Sarah Rose Holloway John Wesley Hopkins Jennifer Dara Huang Bradley John Hunt Kelley Elizabeth Hussey Esme S. Irvine Sarah Mary Jabour also International Studies Danae Michal Johnson Ingrid Joanna Johnson Keya Durga Joshi Meghana Kalavar Alexandra Ross Katchis Samuel Derege Kebede Sophia Khalil Clara Kil Hve Min Kim\*\* Alexa E. Lantiere Jessica Nicole Lee\*\* Fraulein Fangfei Li\*\* Shannon Rebecca Libaw Sebastian W. Lim\*\* Anne Ning Lin also Biology Wayne Timothy Liu\* Asha Jamilah Liverpool Robert Allen Locke Michael Andrew Longo Jr. Zachary Wayne Lorenz Alexis Louie Eleanor Joelle Lucas\*\* Grace Anja Marshall also Africana Studies Amanda Susan Masse\*\* Christopher A. Matey Katariina Maria Mattila Ciara Rose McCullagh Matthew Bryan Meissner Ashley Elizabeth Mercede Molly Anne Merkel

Nina Flora Mermelstein Mariel Alexa Metalios Christina Lynn Meyer also East Asian Studies Kotaro Mitsuhashi Michelle Jinsun Moon Hemen Solomon Muleta Maria Luisa Navarro Sanchez Tianna Maria Negron also Spanish

Maia Nieto also Spanish\*\*

Amanda Ulumma Nwaopara Christiana Obeng Aleksandra Igorevna Olekhnovich Jelyca Martina Ormond Kiara Ott Anita Patel\*\* Horace John Patrick Jr. Kaitlin Pfisterer\*\* Katherine Courtney Prochownik Zein Ahmad Quraishi Ilana Samantha Regenbogen Stephanie Leah Rettig Bailey Marie Richards also Economics Katrina Caridad Rios Michael Scott Rocca Virginia Erin Rogers\*\* Leah Klein Rosenbaum also Writing Seminars Neel Rahul Sangal\*\* Justin F. Serrano Alec Lyon Sinatro Rohini Devi Sree Siva Srinivas Lauren Elizabeth Snyder Tanner Reeves Souza Margaret Katherine Storm Jun Long Suen\*\* Brittany Ayana Thomas Caroline Elizabeth Ticse Brian Tsoung David Tse-en Tsuei Giovanni Anthony Urquilla Sharon Mary Varghese Aida Elise Ver Ploeg\*\* Katherine Wang\*\* Emilee Ruthmarie Warner Brooke-Logann Ivory Williams Zachary Andrew Winters also English\*\* Taylor Joanne Wiseman Tiffany Yang Jee Hun Yoo also Psychology Joy Ziyi Zhou

#### **Romance Languages**

Antonio Victor Bardawil\* Herty Junior Cortez Diaz also Latin American Studies Margaret L. Hashmall also Economics Amelie-Francoise Foumena Nkodo *also Anthropology* 

#### Sociology

Hilario Francisco Dominguez\*\* Pamela Tolf Hugi Tierra Rochelle Langley *also Africana Studies*\*\* Felicia James Onuma Geena Frances St. Andrew Danielle Elizabeth Thompson

#### Spanish

Eduardo C. Alvarado Ali Browder Edward Wallace Corty Frances Svidler Karin E. Umfrey

#### Writing Seminars

Olivia Clark Babb Alexandra Camilla Barbera David James Berenato\*\* Michaela Lee Burns also Psychology Kaleigh Lavin Choi\*\* Carly Marie Cox also Spanish Ross Daniel Cummings\*\* Oludolapo Arnold Demuren Chelsea Christine Hobart Duff\*\* Patrick Mansfield Eichner Brandon Farrell Epstein Louis Shipley Foxwell Matthew A. Fusaro Anne Alastair Gallay Emily Kate Glickman Ian Tekyi Gyan Megan Linn Hennessy Malka Herman also Political Science Chinenye Valerie Ikoro Gabrielle Augusta Kasper Iturralde Pembroke Nash Jenkins Noah Jay Joachim Lindsay Claire Kiernan also English

Mackenzie Gabrielle Lane

Political Science Grant Arthur Lease Mi Kyung Lee\*\* Seol A Lee\* Rebecca Leigh Levine Kathleen Margaret Lewis Jenna Lauren Link also Psychology Cecilia M. Mancuso also English Eliza Degroot McGowen\*\* Ian Hunter McMurray *also* Film and Media Studies Andrea Janine Michalowsky Matthew Paul Myers also English Kathleen Pierce Naymon Florence Valentina Noorinejad also English\*\* Julia Jaihe Oh\*\* Aubrey Saige Pevsner\* Ryan Christopher Poholek Katherine Espana Quinn also English and Spanish Mollie Ashley Rotmensch also East Asian Studies Georgina Francis Rupp Madeline Marie Scharff Isabelle Torii Schein David Robert Shear also Film and Media Studies\*\* Elizabeth Miller Sherwood Violet Smith Sara Son also English Aafia Sved Camille Victoria Perez Tambunting also Spanish Richard Frederick Turner\*\* Ellen Maxine Waddell Madeline Gray Wheeler David Aaron White\*\* Julianne Hagerty Wilson also Film and Media Studies Hon-Wai Wong also Sociology Lucy R. Woodrow Gemma Rowena Zigman

# **DIVISIONAL CEREMONIES INFORMATION**

# Tuesday, May 19

The Bloomberg School of Public Health Convocation Ceremony was held Tuesday afternoon at the Joseph Meyerhoff Symphony Hall. Tom Frieden, MD, MPH, director of the Centers for Disease Control and Prevention (CDC), was the speaker.

# WEDNESDAY, MAY 20

The Carey Business School Graduation Ceremony was held Wednesday afternoon at the Joseph Meyerhoff Symphony Hall. Alex Gorsky, chairman of the board and CEO of Johnson & Johnson, was the speaker.

The School of Education Diploma Ceremony was held Wednesday afternoon at the Royal Farms Arena. Ted Mitchell, undersecretary of education, was the speaker.

The G.W.C. Whiting School of Engineering and Zanvyl Krieger School of Arts & Sciences Doctoral Hooding Ceremony was held Wednesday afternoon in Shriver Hall on the Homewood campus.

The G.W.C. Whiting School of Engineering Graduate Ceremony was held Wednesday evening on Homewood Field. Salvatore "Tory" Bruno, president and CEO, United Launch Alliance, was the speaker.

# THURSDAY, MAY 21

The School of Medicine Convocation Ceremony is today at 2:30 p.m. at the Joseph Meyerhoff Symphony Hall. Robert Siliciano, a member of the Howard Hughes Medical Institute and a professor of medicine and molecular biology and genetics at the Johns Hopkins University School of Medicine, is the speaker.

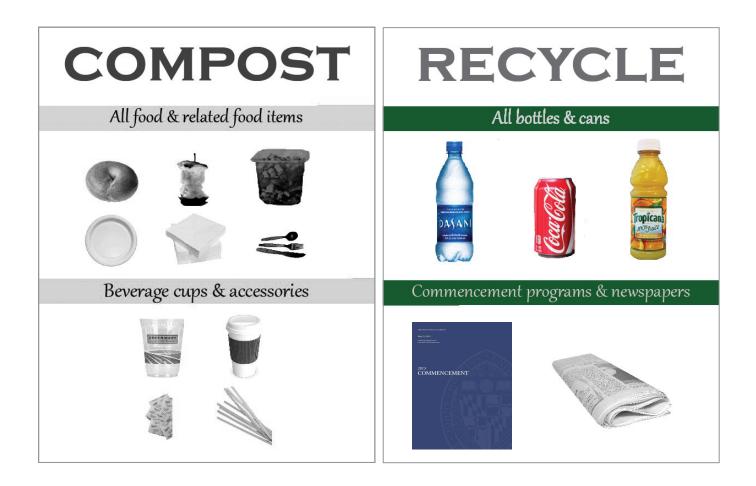
The Paul H. Nitze School of Advanced International Studies Diploma Ceremony is today at 3 p.m. in Constitution Hall, at 18th and D Streets NW, Washington, D.C. Former Treasury Secretary Henry Paulson is the speaker.

The Peabody Institute Graduation Ceremony is at 7:30 p.m. this evening in the Friedberg Concert Hall at the Institute. Opera star Jessye Norman is the speaker.

# FRIDAY, MAY 22

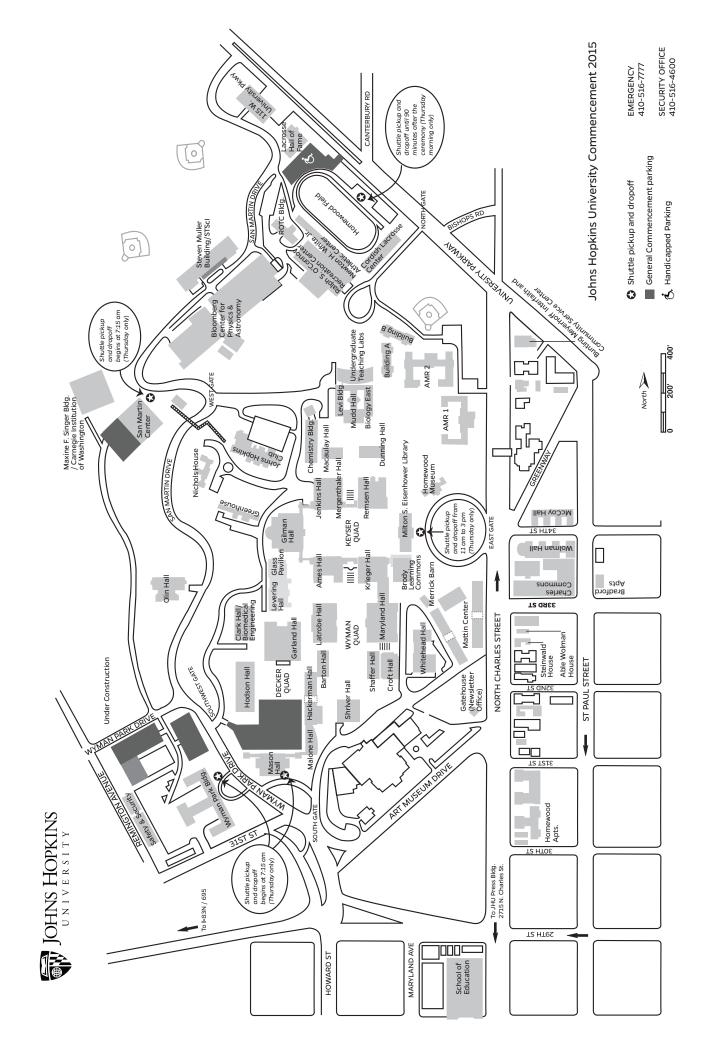
The Zanvyl Krieger School of Arts and Sciences Master's Degree Ceremony is Friday at 10 a.m. on Homewood Field. John M. Bridgeland, president and CEO of Civic Enterprises, will be the speaker. A reception follows immediately in the Ralph S. O'Connor Recreation Center. Doctoral degree recipients from Arts and Sciences and their guests are also welcome.

Please support sustainability at the 2015 Commencement ceremony by responsibly disposing of your waste in one of the many recycle/compost bin stations on the field.





Sustainability Network



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