THINK OF YOURSELF AS ON THE THRESHOLD OF UNPARALLELED SUCCESS. A WHOLE, CLEAR, GLORIOUS LIFE LIES BEFORE YOU.

ANDREW CARNEGIE
FOUNDER, CARNEGIE MELLON UNIVERSITY
To the graduates, families and friends of the Carnegie Mellon Class of 2019:

Welcome to Carnegie Mellon University’s 122nd Commencement Ceremony.

Today, we celebrate the achievements of the CMU Class of 2019. Since arriving on campus, these students have been immersed in work that matters — in boundary-crossing education and research, outstanding creativity and performance, and community service and engagement. Bound by a core set of values that includes integrity, inclusion, collaboration and empathy, these remarkable graduates have changed this campus for the better, and will change the world.

We are especially grateful to the families and friends of the graduates who have come here today to celebrate with us. Graduation from a demanding academic institution like Carnegie Mellon is a team effort: these students could not have succeeded without your steadfast love and support over the years. Today, you share in their well-deserved accomplishments.

As one chapter of their lives closes, another begins. Today, the Class of 2019 is joining a worldwide community of more than 112,000 alumni who have experienced the power of a CMU education to make a difference in the world. Graduates: I encourage you to take advantage of this network and remember to share your accumulating knowledge and experiences with the students who follow in your footsteps.

On behalf of the entire Carnegie Mellon community, I wish the Class of 2019 great success, fulfillment and happiness in the years ahead. Congratulations!

Farnam Jahanian
President
Henry L. Hillman President’s Chair
Carnegie Mellon University

Follow the conversation: #cmugrad
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Program

Commencement Declaration
Joel Greenhouse
Professor of Statistics, Department of Statistics and Data Science

The National Anthem
Vocal Performance Class of 2019
Alexandra Aks (A 2019)
Vincent Angelo (A 2019)
Sarah Barker (A 2019)
Daniel Brennan (A 2019)
Sophia Burnham-Lemaire (A 2019)
Avery Devine (A 2019)
Colleen McGovern (A 2019)
William Ottow (A 2019)
Robert Raso (A 2019)
Sydney Roslin (A 2019, DC 2019)
Brielle Marie Stovall (A 2019)
Mark Tamvakis (A 2019)
Alex Taylor (A 2019)
Taylor Troyer (A 2019)
Ian Young (A 2019)

Invocation
Rabbi Shlomo Silverman
Director, Chabad of Carnegie Mellon University
Vice Chair, Carnegie Mellon University’s Council of Religious Advisors

Please be seated following the invocation.
Welcome
James E. Rohr
Chair, Board of Trustees, Carnegie Mellon University; Retired Executive Chairman, The PNC Financial Services Group

Remarks and Recognitions
Farnam Jahanian
President
Henry L. Hillman President’s Chair

Student Speaker
Hamza Qureshi (A 2019)

Conferral of Honorary Degrees
Farnam Jahanian

Candidates for Honorary Degrees
Darlene Clark Hine
John A. Hannah Distinguished Professor of History, Michigan State University
Doctor of Humane Letters

David M. Kelley (E 1973)
Donald W. Whittier Professor in Mechanical Engineering, Stanford University
Founder, Hasso Plattner Institute of Design, Stanford University
Founder, IDEO
Doctor of Science and Technology

John Shaffner (A 1976) and Joe Stewart (A 1977)
Emmy Award-Winning Production Designers, Shaffner/Stewart Production Design
Doctor of Fine Arts

Leslie Odom, Jr. (A 2003)
Tony and Grammy Award-Winning Performer
Doctor of Fine Arts

Keynote Speaker
Leslie Odom, Jr.

Welcome to New Alumni
Alex DiClaudio (DC 2009, HNZ 2011)
President, Alumni Association Board; Managing Director and Co-Founder of Bedford Funds, L.P.

President’s Charge to the Class of 2019
Farnam Jahanian

Conferring of Bachelor’s, Master’s and Doctor’s Degrees
Farnam Jahanian
James H. Garrett Jr.
Jonathan Cagan
Interim Dean, College of Engineering and George Tallman Ladd and Florence Barrett Ladd Professor of Mechanical Engineering

Dan J. Martin
Stanley and Marcia Gumberg Dean, College of Fine Arts

Richard Scheines
Dean, Dietrich College of Humanities and Social Sciences

Ramayya Krishnan
H.J. Heinz Dean, Heinz College of Information Systems and Public Policy and William W. and Ruth F. Cooper Professor of Management Science and Information Systems

Rebecca W. Doerge
Glen de Vries Dean, Mellon College of Science

Tom M. Mitchell
Interim Dean, School of Computer Science and Founders University Professor

Robert M. Dammon
Dean, Tepper School of Business

Michael A. Trick
Dean, Carnegie Mellon in Qatar and Harry B. and James H. Higgins Professor of Operations Research

The Alma Mater
Vocal Performance Class of 2019

Please join in.

Here, where spangled wildernesses
Robed the fountains of the West,
Where the savage strife and stresses
Brought the settlers’ crimson quest:
‘Mid thy hilltops, Alma Mater,
Stands enthroned forevermore.
All Hail, Carnegie, Alma Mater
Stands enthroned forevermore.

Initial Interpretations

| A | College of Fine Arts |
| DC | Dietrich College of Humanities and Social Sciences |
| E | College of Engineering |
| HNZ | Heinz College of Information Systems and Public Policy |
Procession

10:15 a.m. The procession starts. **ALL GUESTS SHOULD BE SEATED BY THIS TIME.** Guests are not permitted on the track or in the aisles during the procession.

**ORDER OF PROCESSION**

- Candidates for Bachelor’s and Master’s Degrees (processing by college)
- Faculty
- Candidates for Doctor’s Degrees (processing as a group)
- Deans, University Leadership and Board of Trustees

**CANDIDATE SEATING**

Candidates will be seated in the four center seating bays according to their college’s section on the field. Family and friends seating is also available on the field. To identify where your graduate will be seated, please see the seating map below.

**RECESSION**

To ensure that all graduates and special guests may exit smoothly, please remain seated until those seated on the stage have left the field. Please determine where you need to go after the ceremony and use the appropriate exit route.

**SEATING MAP**

Restrooms are located in all campus buildings and under the bleachers in Gesling Stadium.
Marshals

Faculty Marshal
Joel Greenhouse
Professor of Statistics, Department of Statistics and Data Science

Platform Group
Gina Casalegno
Vice President for Student Affairs and Dean of Students

College of Engineering
Amit Acharya
Professor, Departments of Civil and Environmental Engineering and Materials Science and Engineering
Elizabeth Holm
Professor, Department of Materials Science and Engineering
Annette M. Jacobson
Associate Dean
Diana Marculescu
David Edward Schramm Professor of Electrical and Computer Engineering
Satbir Singh
Assistant Teaching Professor, Department of Mechanical Engineering
Bryan Webler
Associate Professor, Department of Materials Science and Engineering
Conrad Zapanta
Associate Head of Undergraduate Education, Teaching Professor, Department of Biomedical Engineering

College of Fine Arts
Rob Handel
Associate Professor, Dramatic Writing, School of Drama
Peter Scupelli
Associate Professor, Chair of the Environments Track and Director of the Learning Environments Lab, School of Design

Dietrich College of Humanities and Social Sciences
Joseph Devine
Associate Dean for Undergraduate Studies
Jennifer Keating
Assistant Dean for Educational Initiatives
Christopher Peter Makris
Executive Director, Master’s of Statistical Practice Program; Adjunct Instructor
Mark Patterson
Director, Quantitative Social Science Scholars Program
Kristina Straub
Professor, Department of English

Heinz College of Information Systems and Public Policy
Rebekah Apple
Director of the Master of Medical Management Program
Sean Beggs
Director of the Master of Information Systems Management Program

Mellon College of Science
Maggie Braun
Associate Dean for Undergraduate Affairs; Associate Teaching Professor
Kenneth Hovis
Assistant Dean for Educational Initiatives; Associate Teaching Professor
Jonathan Minden
Professor, Department of Biological Sciences
Manfred Paulini
Professor of Physics; Associate Dean for Faculty and Graduate Affairs

School of Computer Science
Guy E. Blelloch
Associate Dean of Undergraduate Programs
Thomas J. Cortina
Assistant Dean for Undergraduate Education; Teaching Professor
David Garlan
Associate Dean for Master’s Programs; Professor of Computer Science

Tepper School of Business
Wendy Hermann
Executive Director, Student Services, Master’s Program
Burton Hollifield
Academic Head, Undergraduate Business Administration Program; PNC Professor of Financial Economics
Jennifer Wegner
Executive Director, Undergraduate Business Administration Program

BXA Intercollege Degree Programs
M. Stephanie Murray
Director; Academic Advisor; Assistant Teaching Professor

Science and Humanities Scholars
William Alba
Assistant Dean for Diversity, Mellon College of Science; Director, Science and Humanities Scholars Program; Associate Teaching Professor of Chemistry
BEFORE THE CEREMONY

Academic Symbols

THE CARNEGIE MACE

In the British tradition, a procession for a ceremony such as this commencement may be led by an official bearing a mace or staff, or supervised by a marshal carrying a baton or other badge of office. Carnegie Mellon has provided the faculty marshal (officially responsible for the entire ceremony) with a silver mace. The Carnegie mace is surmounted with a thistle, a flowering plant, symbolic of Andrew Carnegie’s Scottish origin.

REGALIA

Other components of this ceremony include the regalia of the participating faculty and students — a colorful relic of medieval scholastic tradition. During the Middle Ages, education was a function of religious organizations. The long gown evolved from the monk’s habit, and the hood from the cowl that monks wore on their heads.

The hoods are decorated with colored velvet bands indicating the disciplines in which they earned their degree. Carnegie Mellon hoods are dressed with the Carnegie family tartan in blue, red, green and yellow, created at Andrew Carnegie’s request and manufactured in Scotland.

Candidates for the master’s degree wear a velvet band of the color representing their particular academic discipline on their hoods. The colors representing the academic disciplines for the master’s degrees awarded by Carnegie Mellon are as follows:

- College of Engineering | Orange
- College of Fine Arts | Dark Brown
- Music | Pink
- Dietrich College of Humanities and Social Sciences | White
- Statistics and Data Science | Gold
- Heinz College of Information Systems and Public Policy:
  - Information Systems | Yellow
  - Public Policy | Peacock Blue
- Mellon College of Science | Gold
- School of Computer Science | Gold
- Tepper School of Business | Drab Brown
- University-Wide, Intercollege and Joint-Degree Programs:
  - Various Colors

The colors representing the academic disciplines for the doctor’s degrees awarded by Carnegie Mellon are as follows:

- Doctor of Arts | White
- Doctor of Design | Dark Brown
- Doctor of Philosophy | Dark Blue
- Doctor of Professional Practice | Dark Brown

MORTARBOARD AND TASSEL

Some legends say the mortarboard developed from the skull caps worn by churchmen officiating at religious services; others say the cap resembles a scholar’s book and came from Oxford University.

The tassel, worn on the square of the mortarboard, developed from the 15th century when caps and hats came into fashion. One style of hat bore a tuft in the center, which evolved into the tassel. Students receiving a bachelor’s degree have a red tassel, master’s degree candidates have a black tassel and those receiving a doctor’s degree have a gold tassel. The tassels hold an emblem stating the year of graduation.

THE PRESIDENT’S MEDALLION AND CHAIN

In holding with ceremonial tradition, the president will wear the chain of office and medallion. These brass pieces have been designed to be passed down from president to president, bridging our past and present to our promising future.

A medallion bearing the university seal anchors the 36-inch ornamental chain. Adorning the piece are four medals, two engraved with the thistle and two featuring images of our founders Andrew Carnegie and Andrew Mellon.

The links of the chain are interwoven with 12 curved banners engraved with the names of each of the colleges and schools within the university, the University Libraries and Carnegie Mellon’s campus locations around the world. This symbol of our interconnected community meets at the “president’s banner.” Marked by a decorative accent, this banner sits above the medallion and features Carnegie’s famous motto, “My heart is in the work.”
University and College Honors

Bachelor’s candidates who have achieved exemplary academic success receive university and/or college honors. Below is a description of the criteria for the honors. Students may achieve university and/or college honors by their seventh or eighth semester. Because of printing deadlines, only those who have achieved honors as of their seventh semester are listed in this program.

University Honors are given to undergraduates on the basis of a 3.5 or higher quality point average (QPA). These students are identified by a medallion worn as part of their academic regalia.

College Honors are awarded individually by each college. These students are identified by a cord worn as part of their academic regalia. The criteria for each college are outlined below.

University and College Honors

BXA INTERCOLLEGE DEGREE PROGRAMS

Bachelor of Computer Science and Arts (BCSA), Bachelor of Humanities and Arts (BHA), Bachelor of Science and Arts (BSA) and Engineering and Arts (EA) additional major students who successfully complete a BXA Capstone Project under the guidance of a faculty member, present their research results at the annual Meeting of the Minds Undergraduate Research Symposium and earn an overall QPA of 3.25 or higher will receive BCSA Intercollege Honors, BHA Intercollege Honors, BSA Intercollege Honors or EA Intercollege Honors.

The BCSA honors cord colors are tiffany gold and dark brown. The BHA honors cord colors are purple and dark brown. The BSA honors cord colors are gold and dark brown. The EA honors cord colors are orange and dark brown.

COLLEGE OF ENGINEERING

The College of Engineering College Honors recipients complete at least 18 units of advanced level research during their senior year under the guidance of a Carnegie Mellon faculty member. They present and discuss their research project at the undergraduate research symposium held annually in the spring.

The Engineering honors cord color is orange.

COLLEGE OF FINE ARTS

The College of Fine Arts (CFA) issues College Honors based on the following school criteria:

Architecture – students who have a cumulative QPA of 3.3 or higher.

Art – students who have won a School of Art award or whom faculty select based on overall academic and artistic excellence.

Design – students who have won a School of Design award.

Drama – students who have a cumulative QPA of 3.3 or higher. The faculty may also select additional students based on overall academic and artistic excellence, school citizenship, innovative thinking and/or entrepreneurship.

Music – students who have a cumulative QPA of 3.3 or higher, and either have won a School of Music award or have been awarded College Honors by the School of Music Division Heads Committee.

CFA Student-Defined Majors – students may receive College Honors if they have a cumulative QPA of 3.3 and have also completed one of the following: 1) senior project, 2) internship, 3) independent study where work is used, cited or has a direct impact on the university or society at large.

The CFA honors cord color is dark brown.

DIETRICH COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

Students who complete a Dietrich College of Humanities and Social Sciences (DC) senior honors thesis under the auspices of the Dietrich College Senior Honors Program receive Dietrich College Honors.

The DC honors cord color is purple.

MELLON COLLEGE OF SCIENCE

Mellon College of Science (MCS) students are awarded MCS College Honors if they maintain a QPA of 3.2 or higher, demonstrate quality undergraduate research and either publish or present their research at a scientific meeting.

The MCS honors cord color is gold.

SCHOOL OF COMPUTER SCIENCE

The School of Computer Science (SCS) students complete a senior research thesis under the guidance of a faculty member. The students present their research results at the SCS Fall Research Poster Presentation and the annual Meeting of the Minds Undergraduate Research Symposium. Posters describing their thesis research are displayed in the Gates & Hillman Centers.

The SCS honors cord color is tiffany gold.

SCIENCE AND HUMANITIES SCHOLARS

Science and Humanities Scholars (SHS) students may receive either MCS or DC Honors.

TEPPER SCHOOL OF BUSINESS

Students in Business Administration earn College Honors from the Tepper School of Business (TPR) by successfully completing a year-long senior research thesis under the guidance of a faculty advisor. Students present their research results at the annual Meeting of the Minds Undergraduate Research Symposium.

The TPR honors cord color is drab brown.
Farnam Jahanian was appointed the 10th president of Carnegie Mellon University by its Board of Trustees in March 2018.

A nationally recognized computer scientist, entrepreneur, public servant and higher education leader, Jahanian brings to CMU extensive leadership and administrative expertise, not only in advancing research and education within and across disciplines, but also in translating research into technologies and practices that benefit society.

He was previously the university’s provost and chief academic officer, with broad responsibility for leading CMU’s schools, colleges, institutes and campuses. He first joined CMU in 2014 as vice president for research.

Before coming to CMU, Jahanian led the National Science Foundation Directorate for Computer and Information Science and Engineering (CISE) from 2011 to 2014. He guided CISE in its mission to advance scientific discovery and engineering innovation through its support of fundamental research. Previously, Jahanian was the Edward S. Davidson Collegiate Professor at the University of Michigan, where he served as chair for Computer Science and Engineering from 1997 to 2000.

Jahanian has been an active advocate for how basic research can be uniquely central to an innovation ecosystem that drives global competitiveness. His scholarly work in cybersecurity and networks ultimately transformed how cyber threats are addressed today and formed the basis for the internet security company Arbor Networks, which he co-founded in 2001 and served as chairman until its acquisition in 2010.

Jahanian serves as chair of the National Research Council’s Computer Science and Telecommunications Board, is on the executive committee of the Council on Competitiveness and is a board member of the National Center for Women and Information Technology, among other organizations.

Jahanian holds a Ph.D. in computer science from the University of Texas at Austin. He is a fellow of the Association for Computing Machinery, the Institute of Electrical and Electronic Engineers and the American Association for the Advancement of Science.

James H. Garrett Jr. was named provost and chief academic officer of Carnegie Mellon University in January 2019.

As the university’s chief academic officer, Garrett is responsible for leading CMU’s schools, colleges, institutes and campuses and is instrumental in institutional and academic planning and implementation.

A member of the faculty since 1990, Garrett became dean of Carnegie Mellon University’s College of Engineering in 2013. Immediately prior to that, he spent six years as head of the Department of Civil and Environmental Engineering.

Garrett is Carnegie Mellon plaid through and through, having received his B.S. (1982), M.S. (1983) and Ph.D. (1986) degrees in Civil and Environmental Engineering from the institution. He joined the faculty of the college as an assistant professor in 1990 and was promoted to full professor in 1996. Garrett has served in other administrative roles including associate dean for Graduate and Faculty Affairs (2000–2006) and acting dean (2004), as well as faculty co-director of the Smart Infrastructure Institute, a research center aimed at developing sensing technology for construction and infrastructure systems.

Throughout his research career, Garrett focused on how sensors and data analytics can make our cities more adaptive and efficient. This approach aims to give built infrastructures the ability to detect and report on problems directly to the humans charged with maintaining those structures, allowing for more proactive and cost-effective infrastructure management.

Among his many recognitions and awards, in 2018 Garrett was awarded the title of Distinguished Member of American Society of Civil Engineers, the highest honor available to civil engineers.
James E. Rohr is the retired executive chairman and former chief executive officer of The PNC Financial Services Group, one of the largest diversified financial services companies in the United States.

Rohr joined PNC's management development program in 1972. Over more than 40 years with the company, he has held a variety of leadership positions, including vice chairman, director and chief operating officer. During his time as CEO, the company grew assets four-fold and engaged in 10 acquisitions, including the integrations of National City and the retail branch network of RBC Bank (USA). For his leadership, Rohr was named American Banker’s “Banker of the Year” for 2007. He stepped down as chief executive officer in April 2013 and retired as executive chairman in April 2014.

Rohr is a director of ATI, ECHO Realty, EQT Corporation and Marathon Petroleum Corporation. He is past chair of the Financial Services Roundtable, past president of the Federal Advisory Council of the Federal Reserve System and the Pennsylvania Business Roundtable and former director of BlackRock, Inc., the Federal Reserve Bank of Cleveland, GE and Second Curve Capital.

As chairman of PNC, Rohr provided the vision for PNC Grow Up Great, the company's $500 million, multiyear, bilingual initiative that began in 2004 to support early childhood education. To promote it, he presented to national organizations, testified before Congress about the importance of preparing children for school, and called for universal access to early childhood education programming. PNC was recognized with the Excellence in Corporate Philanthropy Award by the Committee Encouraging Corporate Philanthropy for this initiative.

Rohr supports a number of civic, cultural and educational organizations. He serves on the boards of directors for The Heinz Endowments, the Allegheny Foundation and the Dietrich Foundation; is chairman of the board of trustees of Carnegie Mellon University and a member of the board of trustees of the University of Notre Dame; is past chairman and a member of the Pittsburgh Cultural Trust; and is past chairman of the Allegheny Conference on Community Development.

Rohr earned his bachelor of arts degree from the University of Notre Dame and his master’s in business administration from The Ohio State University.

Alex DiClaudio, an interdisciplinary business leader and entrepreneur, is in his first year as president of the Carnegie Mellon Alumni Association.

DiClaudio earned his bachelor’s degree in economics from the Dietrich College of Humanities and Social Sciences and Tepper School of Business in 2009, and a master’s degree in arts management from the Heinz College of Information Systems and Public Policy in 2011. Since then his career has spanned Broadway, film, television and the web to private equity and a series of startups.

His credits in the entertainment industry include the Broadway premiere of Grace, the Starz original series The Chair and the popular webseries Pittsburgh Dad. His business ventures include his current role as president and CEO of HiUp Enterprises North America, a subsidiary of an Ireland-based international digital media and technology company focused on cutting-edge corporate and industrial safety and compliance training, with operations based at the Energy Innovation Center in Pittsburgh.

DiClaudio is a founding partner of Bedford Funds LP, a Pittsburgh-based, national-scope opportunity zone fund that is taking an innovative approach to driving transformative change in economically distressed neighborhoods. Bedford is pursuing a unique strategy in this new asset class, with the goal of jointly creating value and strong returns for investors while seeding unprecedented sustainable growth in and for historically “left behind” neighborhoods. This strategy seeks to create innovation ecosystems supported by cutting-edge energy generation and technology, and a robust workforce development program, to positively and inclusively drive rejuvenation and transformation of opportunity zones.

In addition to his volunteer role as leader of the Carnegie Mellon alumni community, DiClaudio dedicates much of his free time to supporting public education, specifically as an elected member of the board of education of his alma mater, Riverview School District in Oakmont and Verona, Pennsylvania.
Leslie Odom, Jr. is a Tony and Grammy Award-winning actor, singer and dancer.

Best known for his breakout role as Aaron Burr in the smash hit Broadway musical, “Hamilton,” Odom received a Drama Desk Award nomination in 2015 and won the Tony Award for Best Actor in a Musical. He also won a Grammy Award as a principal soloist on the original cast recording.

Odom made his Broadway debut in “Rent” and starred in the stage adaption of “Leap of Faith.” Off-Broadway he appeared in “Venice” at the Public Theater. On television, Odom will star in and executive produce a new ABC pilot with Simpson Street and Kerry Washington about joint pastors at a young, hip, diverse church in L.A. He most recently appeared on the big screen in Kenneth Branagh’s “Murder on the Orient Express” for Twentieth Century Fox and recently completed production on four feature films.

Odom returned to the New York City stage in a solo concert at Jazz at Lincoln Center in 2017. The cabaret-style performance was crafted around signature songs and music that shaped the artist’s journey and was performed with a world-class band in front of a live audience. The show was filmed for broadcast as an hour-long PBS special as part of the 17-time Emmy Award-winning series, “Live from Lincoln Center.”

Odom’s self-titled debut album was released in 2014 by Borderlight Entertainment. The album’s re-release in 2016 with additional material charted at #1 on the Billboard Jazz chart.

Odom is the author of Failing Up: How to Take Risks, Aim Higher, and Never Stop Learning, a book that taps into the universal themes of starting something new, following your passions, discovering your own potential and surrounding yourself with the right people.

Hamza Qureshi is graduating with a bachelor of arts degree in architecture with an additional major in Human-Computer Interaction.

Qureshi has been a member of the Carnegie Mellon University community since 2014 when he attended the Pre-College program. Since arriving as an undergraduate student in the fall of 2015, he has been a dedicated and engaged student in his academic and extracurricular pursuits.

In addition to being a member of the College of Fine Arts’ Dean’s List, Qureshi has served on the School of Architecture’s Student Advisory Council, has been an academic coach with Carnegie Mellon Academic Development and has worked as a teaching assistant. He has participated in research in the areas of fabrication design, augmented reality, and more recently, human-robot virtuosity with the DARPA Subterranean Challenge, working with his team to design and develop a user interface to carry out complex search-and-rescue missions.

Qureshi has worked tirelessly over his time at Carnegie Mellon to help incubate a campus culture that is inclusive for all. His leadership roles have included serving as an orientation leader, a member of the Undergraduate Student Senate and as a Booth chair and an outreach chair for the Phi Delta Theta fraternity. He also has offered a student perspective on a variety of issues through his service on executive committees focused on campus development and health and wellness. As a Coulter Welcome Center ambassador, Qureshi has been able to share his Carnegie Mellon experience with visitors from around the world.

Upon graduation, Qureshi will be working as a user experience designer in a two-year rotational program at Capital One in the Washington, D.C., area.
Darlene Clark Hine is a leading historian of the African American experience who helped found the field of black women's history and has been one of its most prolific scholars.

Hine is a National Women's History Month Honoree. On July 28, 2014, President Barack Obama honored her with a National Humanities Medal for her contributions in black women's history and pioneering study of the intersection of race, class and gender. She is past president of the Organization of American Historians and of the Southern Historical Association. She was inducted into the American Academy of Arts and Sciences in October 2006.


Hine has received fellowships and grants from the American Council of Learned Societies, the Center for Advanced Study in the Behavioral Sciences, the Ford Foundation, the National Endowment for the Humanities, the National Humanities Center, the Radcliffe Institute for Advanced Study, the Rockefeller Foundation, and was a W.E.B. DuBois Institute Fellow at Harvard University. She has received honorary doctorates from the University of Massachusetts, Amherst; Purdue University; Buffalo State College, Buffalo, New York; Lake Forest College, Lake Forest, Illinois; Roosevelt University; and Michigan State University.

David Kelley is the founder of the global design and innovation company IDEO and Stanford University’s Hasso Plattner Institute of Design (commonly referred to as the d.school).

After earning a bachelor's degree in electrical engineering at Carnegie Mellon University, Kelley worked as an engineer at Boeing and NCR. He entered Stanford University in 1975 where he earned his master's degree in engineering/product design.

In 1978, he founded the design firm that would become IDEO. In that same year, he began his teaching career at Stanford, receiving tenure in 1990. He also founded an early-stage venture-capital firm in 1984 called Onset and was instrumental in starting a special effects firm called Edge Innovations, which creates unique animatronics for the film industry.

Kelley was inducted into the National Academy of Engineering in 2000. He holds honorary Ph.D.s from the Thayer School of Engineering at Dartmouth and the Art Center College in Pasadena. He has been recognized with numerous honors, including the Chrysler Design Award and the National Design Award in Product Design from the Smithsonian's Cooper-Hewitt National Design Museum, the Robert Fletcher Award from Dartmouth and the Edison Achievement Award for Innovation. Preparing the design thinkers of tomorrow earned him the Sir Misha Black Medal for his “distinguished contribution to design education.”

As Stanford’s Donald W. Whittier Professor in Mechanical Engineering, Kelley is the academic director of both degree-granting undergraduate and graduate programs in design within the School of Engineering and has taught classes in the program for more than 35 years.

Kelley’s most enduring contributions are in human-centered design methodology and design thinking. He is most passionate about using design to help unlock creative confidence in everyone from students to business executives. A frequent speaker on these topics, Kelley and his brother co-authored the New York Times best-selling book, Creative Confidence: Unleashing the Creative Potential Within Us All.
Honorary Degree Recipients

JOHN SHAFFNER (A 1976) AND JOE STEWART (A 1977)
Emmy Award-Winning Production Designers,
Shaffner/Stewart Production Design
Doctor of Fine Arts

John Shaffner and Joe Stewart are among the most recognized and prolific production designers in television today and have left an indelible mark on television’s history.

Shaffner and Stewart have designed programs that span the genres of multi-camera entertainment: sitcoms, talk shows, cooking shows, telethons, game shows, awards shows, specials, music/variety, televised events and live theatrical productions.

They first made their mark on television with the designs for “Star Search,” which Shaffner also named, and 10 specials for David Copperfield. Some of their most memorable work includes their production designs for the landmark comedies “The Big Bang Theory,” “Friends” and “Two and a Half Men.”

In variety, they have worked with entertainment’s biggest stars including Jerry Lewis, Michael Bublé, Diana Ross, Barbra Streisand, Harry Connick, Celine Dion, Kenny Rogers, Dolly Parton, Carol Burnett and Whitney Houston. Annually, a number of awards shows as well as the Miss USA and Miss Universe pageants and Dick Clark’s New Year’s Rockin’ Eve benefit from their talents. They have designed four Republican National Conventions and several editions of the Ringling Bros. and Barnum & Bailey Circus.

Shaffner and Stewart have together and separately received 39 Primetime and Daytime Emmy Award nominations and won six Emmy Awards: three for David Copperfield specials, two for “The Ellen DeGeneres Show” and one for the sitcom “George Lopez.” They also have received 33 Art Directors Guild nominations and won Art Directors Guild Awards for their designs of the 2006 Emmy Awards and “The Big Bang Theory.”

Shaffner served as chairman of the Television Academy and of the Art Directors Council at the Art Directors Guild. Stewart served on the board of governors of the Television Academy.

Stewart holds a bachelor of fine arts degree from Carnegie Mellon and an honorary doctor of arts degree from the University of Louisiana. Shaffner received his bachelor of fine arts degree from the University of Montana and his master of fine arts degree from Carnegie Mellon.
Board of Trustees

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William Peduto
David Porges
Jonathan Rothberg  †
Ajit Shetty  †
J. Lea Hillman Simonds
Manoj Singh  †
Luke Skurman  †
Lin-Bu Tan
David Tepper  †
Thomas Tull
Mary Ann Ulishney  †
Jeanne VanBriesen
Sunil Wadhwani  †
Paula Kauffman Wagner  †
Michael Zamagias

EMERITUS TRUSTEES

John R. Bertucci  †
Carol R. Brown
Robert M. Brown III  †
W. Logan Dickerson
Philip L. Dowd  †
Dina Dublon  †
William B. Ellis  †
Cynthia Friedman
Henry J. Gailliot  †
Claire W. Gargalli
Richard D. Hamilton  †
Teresa Heinz
Orion Hoch  †
T. Jerome Holleran  †
W. Lee Hoskins
James M. Walton
Patricia Askwith Kenner  †
David M. Kirr  †
Edward E. Lucente
Thomas A. McConomy  †
Jack E. McGrath  †
Regina Gouger Miller  †
Lindsay J. Morgenthaler  †
Alessandro Ovi
E. Kears Pollock  †
W. Lee Musgrave
David S. Shapira
Raymond Smith  †
W. Lowell Steinbrenner  †
Donald E. Stitzenberg  †
James M. Walton
Konrad M. Weis

University Leadership

SENIOR
ADMINISTRATION

Farnam Jahanian
President
Henry L. Hillman President’s Chair
James H. Garrett Jr.  †
Provost and Chief Academic Officer
Thomas Lord Professor of Civil and Environmental Engineering
Angela Blanton  †
Vice President and Chief Financial Officer
Gina Casalegno
Vice President for Student Affairs and Dean of Students
Mary Jo Dively
Vice President and General Counsel
Charles A. Kennedy
Chief Investment Officer
Cathy Light
Secretary of the Corporation and Advisor to the President
Rodney McClendon
Vice President for Operations
J. Michael McQuade  †
Vice President for Research
Scott Mor
Vice President for University Advancement
Key Nuttall
Vice President for Marketing and Communications
Daryl Weinert
Chief of Staff and Vice President for Strategic Initiatives

DEANS

Jonathan Cagan
Interim Dean, College of Engineering and George Tallman Ladd Professor of Mechanical Engineering
Gina Casalegno
Dean of Students and Vice President for Student Affairs
Robert M. Dammon
Dean, Tepper School of Business
Rebecca Doerge
Glen de Vries Dean, Mellon College of Science
Ramayya Krishnan
H.J. Heinz Dean, Heinz College of Information Systems and Public Policy and William W. and Ruth F. Cooper Professor of Management Science and Information Systems

Dan J. Martin
Stanley and Marcia Gumberg Dean, College of Fine Arts
Tom M. Mitchell
Interim Dean, School of Computer Science and Founders University Professor
Richard Scheines
Dean, Dietrich College of Humanities and Social Sciences
Michael Steidel  †
Dean of Admission
Michael A. Trick
Dean, Carnegie Mellon in Qatar and Harry B. and James H. Higgins Professor of Operations Research
Keith Webster
Dean of University Libraries and Director of Emerging and Integrative Media Initiatives

DENOTES CARNEGIE MELLON ALUMNI
## COLLEGE DEGREE LISTINGS

### College of Engineering

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<th>Jonathan Cagan</th>
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<td>Bin He, Head of the Department</td>
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<td>Anne Skaja Robinson, Head of the Department</td>
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<td>David A. Dzombak, Head of the Department</td>
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<td>ELECTRICAL AND COMPUTER ENGINEERING</td>
<td>Lawrence Piliggi, Head of the Department</td>
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<tr>
<td>ENERGY SCIENCE, TECHNOLOGY AND POLICY</td>
<td>Paul A. Salvador, Interim Director of the Program</td>
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<tr>
<td>ENGINEERING AND PUBLIC POLICY</td>
<td>Douglas Sicker, Head of the Department</td>
</tr>
<tr>
<td>ENGINEERING AND TECHNOLOGY INNOVATION MANAGEMENT</td>
<td>Jimmy Williams, Executive Director of the Program</td>
</tr>
<tr>
<td>INFORMATION NETWORKING INSTITUTE</td>
<td>Dena Haritos Tsamitis, Director of the Institute</td>
</tr>
<tr>
<td>MATERIALS SCIENCE AND ENGINEERING</td>
<td>Gregory S. Rohrer, Head of the Department</td>
</tr>
<tr>
<td>MECHANICAL ENGINEERING</td>
<td>Allen Robinson, Head of the Department</td>
</tr>
<tr>
<td>CARNEGIE MELLON UNIVERSITY IN AFRICA</td>
<td>Vijayakumar Bhagavatula, Director of CMU-Africa</td>
</tr>
<tr>
<td>CARNEGIE MELLON UNIVERSITY IN SILICON VALLEY</td>
<td>Steven Rosenberg, Senior Director of Operations</td>
</tr>
<tr>
<td>STUDENT-DEFINED MAJORS</td>
<td>Annette Jacobson, Associate Dean</td>
</tr>
</tbody>
</table>

## BIOMEDICAL ENGINEERING

### BACHELOR OF SCIENCE

The department offers an additional major B.S. degree with each of the five traditional engineering departments. Accordingly, our students are listed within their traditional departments.

### MASTER OF SCIENCE

#### Biomedical Engineering

Nicholas Alexander  
Arjuna Prahalad Chattrathi **  
Parul Chauhan  
Siyu Chen  
Minrui Feng  
Yile Feng **  
Gregory Cyrus Ghahramani  
Qiman Guan **  
Conway Chih-Hung Hsieh  
Justin Hsu  
Brent I. Ifemembli  
Kaushik Jagadish Iyer  
Michael Jacobson **  
Chanel Jhin  
Ishmael Johnson-Bey  
Molly S. Kaisar  
Tianai Kong **  
Rishii Nandhan Konganaparam

Lavanya Krishna **  
Jiayuan Li  
Mushi Li  
Xueqian Li  
Wenjing Lian **  
Njaire Imani McKoy  
Ashley Victoria Menk  
Julia Eve Napolitano  
Vibha Nasery  
Ashwin Panda  
Aakash J. Parekh **  
Nandan N. Pitre  
Amy A. Powers  
Elisha Anthony Raeker-Jordan  
Chauvie Mercy Soong  
Michael Marie Staats *  
Jennifer Tsai **  
Kelu Wu **  
Heron Yu  
Han Zhang  
Tianning Zhang **  
Zuyi Zhang **  
Shiyuan Zheng

#### DOCTOR OF PHILOSOPHY

Qinle Ba **  
Quantitative Modeling and Analysis of the Whole-Cell Scale Dynamic Organization of Lyssosmes  
Advisor(s): Ge Yang

Elaine Soohoo  
Design and Development of a Torsional Ventricular Assist Device  
Advisor(s): Dennis Trumble

Rei Ukita **  
Artificial Lung as Destination Therapy: In-Vitro and In-Vivo Evaluation of Low-Fouling Surface Coatings and Computational Modeling of Microchannel Lung  
Advisor(s): Keith Cook

Biomedical Engineering and Engineering and Public Policy

Sara Abdollahi *  
Soft Material 3D Printing Toward Patient-Specific Wearable Medical Devices  
Advisor(s): Alexander Davis, Adam W. Feinberg

### ENGINEERING INTERDISCIPLINARY

#### MASTER OF SCIENCE

Energy Science, Technology and Policy

K’yal Rasean Bannister  
Nalin Buntongmai  
Pablo Christian Caulier Salinas **  
Shefali Rai  
Gayatri Avinash Shahane  
Madalsa Singh  
Ariel Marie Stolz  
Merril Julia Stypula
CHEMICAL ENGINEERING

BACHELOR OF SCIENCE

Chemical Engineering

Michelle A. Bai
Additional Major: Biomedical Engineering

Alexa M. Barriero
Minor: Business Administration

Adrian Berger
Minor: Business Administration

Sanjana Bhartiya
Minor: Computer Science

Adwoa Bonsu
Additional Major: Engineering and Public Policy

Kameron Bradley
Minor: Biomedical Engineering

Eric S. Byun
Additional Major: Biomedical Engineering

Kevin Tian-Pei Cai

Teddy X. Cai
Additional Major: Biomedical Engineering

Qilin Cao
Additional Major: Biomedical Engineering

Nathaniel J. Chevan
Minor: Business Administration

Regine I. Choi

Benjamin Contesse
Minor: Computer Science

Sujay S. Desai
Minor: Computer Science

Martin Connor Faith

Katherine Jane Forrester
Additional Major: Biomedical Engineering

Jadon M. Grove
Additional Major: Engineering and Public Policy

Michael B. Hall
Additional Major: Biomedical Engineering

Minor: Business Administration

Yue Han

Sunjeev Jayant Kale
Minor: Computer Science

Nin Rebecca Kang
Additional Major: Biomedical Engineering

Paul Kwanhyoung Kim
Additional Major: Biomedical Engineering

Madison E. Kratzer
Minor: Colloids, Polymers and Surfaces

Dalia E. Laredo
Additional Major: Biomedical Engineering

Christopher Lee
Additional Major: Biomedical Engineering

G Ping Lee

Jacqueline Lewis
Minor: Computer Science

Siying Li
Additional Major: Engineering and Public Policy

Christopher James Littrell
Minor: Colloids, Polymers and Surfaces

Beichen Liu
Additional Major: Biomedical Engineering

Nicole B. Matis
Minor: Biomedical Engineering

Aaditya A. Mhatre
Minor: Biomedical Engineering

Minor: Operations and Supply Chain Management

Jeannie E. Michaels
Additional Major: Biomedical Engineering

Minor: Creative Writing

Isaac D. Mills
Rena P. Miu
Additional Major: Biomedical Engineering

Brenda Kemunto Mokua
Additional Major: Engineering and Public Policy

Emma John Molitor
Additional Major: Biomedical Engineering

Mark D. Moody
Additional Major: Biomedical Engineering

Diane L. Ngounou
Minor: Biomedical Engineering

Anne Noonan
Additional Major: Biomedical Engineering

Alexander A. Noring

Arnold Chukwudumebi Ogbo
Additional Major: Biomedical Engineering

Additional Major: Philosophy

Ashvi S. Patel
Additional Major: Biomedical Engineering

Yugesh Ramsaroop
Additional Major: Biomedical Engineering

Hannah E. Ray
Additional Major: Engineering and Public Policy

Shinjini Ray
Additional Major: Biomedical Engineering

Evelyn Reuss
Blair J. Rohring
Additional Major: Biomedical Engineering

Minor: Biomedical Engineering

Jack M. Ronayne
Additional Major: Engineering and Public Policy

Richard Z. Ruales
Additional Major: Engineering and Public Policy

Grant J. Seastream
Minor: Computer Science

Adeline Shin
Additional Major: Biomedical Engineering

Minor: Drama

Chaitanya Singh
Additional Major: Biomedical Engineering

Summer A. Slabinski Caban
Additional Major: Biomedical Engineering

Raahul Sriman
Additional Major: Biomedical Engineering

Chung Ho Suh
Minor: Biomedical Engineering

Nianhan Tian

Jamie R. Vizelman
Minor: Biomedical Engineering

Minor: Environmental Studies

Jacob A. Vries
Sophia Wang
Lawrence Wu
COLLEGE DEGREE LISTINGS

Gabrielle S.D. Yanai
Additional Major: Engineering and Public Policy
Minor: Professional Writing
◆ Guodong Zhao
Additional Major: German Studies

MASTER OF CHEMICAL ENGINEERING

Chemical Engineering
Alexander Sebastian Abrams
Johnny L. Bates
Braulio Brunaud
Eloy J. Fernandez **
Sasimas Katanyutanon *
Yun Jang Lee
S incong Liu
Alexander A. Noring
Dong Qin
Michelle K. Smyk
Alexandra C. Vendetti **
Mengxi Yang

MASTER OF CHEMICAL ENGINEERING & COLOIDS, POLYMERS AND SURFACES

Chemical Engineering and Colloids, Polymers and Surfaces
Rohan P. Reddy **

MASTER OF SCIENCE

Chemical Engineering
Abhijeet Anil Alshi **
Aakash Bhatia **
Martin Burton **
Pengfei Cheng **
Aditya Chindhade **
Kedar Dabhadkar **
Anuja Deshpande **
R eshma Gajula **
Shail Godiwala **
Naien He **
Yanyan Hu **
Kshitij Meghashyam Ingale **
Geethanazlai Kamalanathan **
Nithish Kaushik **
Rishabh Kumar **
Virginia Louise Lane **
Xiaodong Li **
Fanyi Meng **
Chinedu Chikaodinaka Okorafor **
Jingyi Pan **
Darshan Pandya **
A puruva Ajit Pradhan *
Qian Qian *
Nikhil Rajeev **

Tushar Rathi **
Jiachun Shi **
Rohit Tawde **
Rahul Anil Vichare
A man Wagadre **
Haokun Yang **
Zong Qian Yu **
Stephanie Zega **
Wen Zhong **

Chemical Engineering and Colloids, Polymers and Surfaces
Ninguan Sun **
Sudarshan Vijay **
Sijie Xiao **
Xin Zhang **
Hangin Zhao **

Colloids, Polymers and Surfaces
Yi quan Fu **
Randall Lee Gamble Jr. **
Qin Gu
Jacob Michael Kupas
Alicia Ng **
Yueying Pan

DOCTOR OF PHILOSOPHY

Braulio Brunaud
Models and Algorithms for Multi-level Supply Chain Optimization
Advisor(s): Ignacio Grossmann

Soham Dutta *
Enantiomer Chemistry on Chiral Surfaces: Amino Acids on Copper
Advisor(s): Andrew J. Gellman

Randall Lee Gamble Jr. **
Gel-Free DNA Sequencing Using Transiently Attached Surfactant Micelles
Advisor(s): James W. Schneider

Devin Wade Griffith *
Advances in Nonlinear Model Predictive Control for Large-Scale Chemical Process Systems
Advisor(s): Lorenz T. Biegler

Khalid Hajj
Lipid Nanoparticle Systems for the Delivery of Messenger RNA
Advisor(s): Kathryn A. Whitehead

Yun-Ru Huang **
Interfacial Activity of Star Polymers at Fluid Interfaces
Advisor(s): Robert D. Tilton

Steven Vincent I asella
Surfactant Driven Pulmonary Drug Delivery
Advisor(s): Stephen Garoff, Todd M. Przybycien, Robert D. Tilton

Burcu Karagöz
Structure Sensitivity of Enantioselective Surface Chemistry on Cu(hkl) Surfaces
Advisor(s): Andrew J. Gellman

Nicholas G. Lamson
Increasing Permeability of the Intestinal Epithelium to Enable Oral Delivery of Protein Drugs
Advisor(s): Kathryn A. Whitehead

Nikolaos H. Lappas **
Robust Optimization for Scheduling Operations Under Uncertainty
Advisor(s): Chrysanthos E. Gounaris

Cristiana L. Lara
Decomposition Algorithms for Optimal Manufacturing and Power Systems Infrastructure Planning
Advisor(s): Ignacio Grossmann

Anirudh Subramanyam **
Robust Optimization of Vehicle Routing Problems Under Uncertainty
Advisor(s): Chrysanthos E. Gounaris

Yajun Wang
Modeling, Estimation and Optimal Control of Batch Reactors Under Parameter Uncertainty
Advisor(s): Lorenz T. Biegler

Zachary Todd Wilson
Integer Programming Applications in Data Driven Modeling
Advisor(s): Nikolaos Sahinidis

Zixi Zhao *
Passivity-Based Adaptive Control of Chemical Reactions in the Absence of Reaction Kinetics Information
Advisor(s): B. Erik Ydstie

CIVIL & ENVIRONMENTAL ENGINEERING

BACHELOR OF SCIENCE

Civil Engineering
Sharan Alla
◆ Gabriel B. Bamforth
Minor: Creative Writing
Alyssa G. Casamento **
Minor: Architecture
Perry W. Cheng **
Andrew Thomas DeLong **
Minor: Politics and Public Policy
Victoria J. Ding
◆ Purvi Doshi
Additional Major: Business Administration
◆ Rachel W. F e eck
Minor: French and Francophone Studies
Shahriyar Haider
Additional Major: Engineering and Public Policy
Robert o M. Hairston
Minor: Social and Political History
Chan el Jhin *
Additional Major: Biomedical Engineering
◆ Kevin D. Kaufman **
◆ Sheelobhadro B. Kundu
Noel Lau
Minor: Intelligent Environments
Austin Lin
Yiyang Lyu
Sarah Elizabeth Mahler **
Additional Major: Psychology
Minor: Architecture

Lauren A. Mueller
Additional Major: Engineering and Public Policy

Zuwhe O. Nwanwko
Medhane-Alam N. Olushola
Sylvia A. Sabbat
Additional Major: Engineering and Public Policy
Olivia G. Seavy
Matthew B. Seifert **
Amanda Hadley Soyk
Samantha R. Suero
Simon Weishaepul
Stephanie W. Wong
Minor: German Studies

Elizabeth Lyn Young Li Wen
Additional Major: Engineering and Public Policy

Yifan Zhao **

MASTER OF SCIENCE

Advanced Infrastructure Systems
Matthew Ernest Battifarano
James Arthur Crnkovich **
William Fabrice Flores Yepez **
Wei Hu **
Nitin Kumar **
Bellei Liu **
Parth Gajanan Nabar **
Akash Pushkar
Yuting Shi **
Xuliang Sun **
Haolin Wang **
Yichen Wang **
Weiran Yao
Weichen Zhan **
Jing Zhang *
Lizhi Zhao **

Civil Engineering
Yash Vinodbhai Bharodia **
Kevin D. Kaufman

Civil and Environmental Engineering
Ridha Al Abbas *
Elizabeth Alexander
Abdulrahman Saad Algadi
Samer Alghalayini
Rahim Ali **
Tamara T. Amin **
Ding An **
Gopaljee Atulya **
Ahmed Mahmoud Badawi
Weiliang Bai **
Xue Bai **
Andrew F. Bakert
Beini Chen **
Chengsi Chen **
Qiyang Chen
Ruijia Chen **
Xiaoju Chen **
Yuefei Chen **
Perry W. Cheng
Deli **
David Desmet **
Jiqian Dong **
Aamod Garg
Meiyi Hou **
Di Hu **
Shi Hu **
Zhixi Huang **
Jing Jing
Joseph Jaewoo Kim
Josue Alirio Lagos Caris **
Sangsuuk Lee **
Nanxian Li **
Mingyi Liang **
Chaochao Lin **
Yanwen Lin **
Xiaoyi Liu **
Ao Luo **
Tianyi Ma **
Yili Ma **
Achyuth V. Madabhushi
Houriyeh Majditehran **
Clara J. Nelson
Rodrigo L. Oberlander **
Xinyi Peng **
Xiaoyu Qiu
Jessie Louise Rehwald
Carolina Beatriz Santander
Morales **
Nanki Sekhon **
Lara Seren
Isha Abhaykumar Shah **
Neel Umeshkumar Shah **
Rucha Nirajbhai Shah **
Shu Shang **
Qingyang Shi **
Yuge Shi **
Soumya Shree **
Lansun Sun **
Roseanne Usnay
Dingze Wang
Rooyu Wang **
Si Wang **
Yue Wang **
Molly A. Whittaker **
Hao Wu
Keshu Wu **
Guangji Xiang **
Yi Yi Xiang **
Hui Yang **
Shirley Jiaying Yuan **
Mei Zhang **
Qianhan Zhang **
Xucheng Zhao
Yang Zhao
Yifan Zhao
Wanduo Zheng **
Chiheng Zhou **
He Zhou **
Xingyu Zhu *
Chong Zuo **

Computational Mechanics
Yuanhao Li
Suman Pokharel **
Nihar Turumella **

Environmental Engineering
Preem C. Sarkar

Environmental Management and Science
Yang Lu **

DOCTOR OF PHILOSOPHY
Rajat Arora
Computational Approximation of Mesoscale Field Dislocation Mechanics at Finite Deformation
Advisor(s): Amit Acharya

Jonathan Charles Callura **
Ligand-Functionalized Adsorbents for the Extraction and Recovery of Rare Earth Elements
Advisor(s): David A. Dzombak, Athanasios Karamalidis

Lauren Cook **
Using Climate Change Projections to Increase the Resilience of Stormwater Infrastructure Designs Under Uncertainty
Advisor(s): Constantine Samaras, Jeanne VanBriesen

Arnab Deb Nath **
Numerical Solution of the Non-equilibrium Boltzmann Equation using the Discontinuous Galerkin Finite Element Method
Advisor(s): Kaushik Dayal

Kerim Edward Dickson **
Interbasin Transfers and Water Risk in the United States
Advisor(s): David A. Dzombak

Kelly Donmoyer Good **
Coal-Fired Power Plant Wastewater Contributions to Bromide Concentrations in Drinking Water Sources
Advisor(s): Jeanne VanBriesen

Chelsea Kolb **
Drinking Water Quality and Risk Challenges from Increasing Source Water Bromide: Climate and Energy Changes
Advisor(s): Matteo Pozzi, Constantine Samaras, Jeanne VanBriesen
Henning Lange
Advanced Infrastructure Systems
Variational Methods for Energy Systems
Advisor(s): Mario Berges

Xuechen Lei
Systematic Control Logic Fault
Identification and Localization of Heating, Ventilation and Air Conditioning Systems
Advisor(s): Burcu Akinci, Mario Berges

Greg A. Schivley **
Environmental Implications of Energy Transitions
Advisor(s): Constantine Samaras

Sneha Shashikant Shanbhag
Electrode Material Functionality and Efficiency in Electrochemical Deionization
Advisor(s): Gregory V. Lowry

Eleanor Ruth Spielman-Sun
Understanding the Impact of Charge and Solubility on Nanoparticle Uptake and Transformations in Planta Through Spatially Resolved Chemical Speciation
Advisor(s): Gregory V. Lowry

Irem Velibeyoglu **
Model Identification and Fault Detectability Assessment for Air Handling Units: Statistical Methods and Empirical Validation
Advisor(s): Matteo Pozzi

Civil and Environmental Engineering and Engineering and Public Policy

Xuejiao Zhang *
Evaluating Indirect GHG Emissions in Biofuel and Implications for Renewable Energy Policies
Advisor(s): W. Michael Griffin, Mitchell J. Small

ELECTRICAL & COMPUTER ENGINEERING

BACHELOR OF SCIENCE

Electrical and Computer Engineering

John Tyler Aceron
Evan J. Adkins *
Cyril Agbi
Justin YongJin Ahn
Sooyoung Ahn
Omar Alhait
Manini P. Amin
Minor: Computer Science
Sean J. Anderson
Additional Major: Engineering and Public Policy
Vayum Arora
Minor: Business Administration
Brian R. Bakerman
Ronit Banerjee
David Bang
Kristina Banh
Pallavi Bannai **
Christopher Brennan Bayley
Minor: Computer Science

Ajay Benno
Aayush Bhasin **
Umsang S. Bhatt
Aayush Bhutani **
Minor: Computer Science
Ilan Biala
Nikhil R. Birmiwal **
Additional Major: Computer Science
Ethan Bless-Wint
Ryan P. Brigiden
Eric Y. Chang
Minor: Computer Science
Michael A. Chang **
Minor: Computer Science
Wenting T. Chang
Minor: Business Administration
Bobbie Chen
Minor: Audio Engineering
Junye Chen
Minor: Machine Learning
Lily Y. Chen
Minor: Music Technology
Minor: Philosophy
Mingquan Chen
Minor: Computer Science
Tianbo Chen
Weijiao Chen
Additional Major: Computer Science
Celine S. Cheng **
Tushar Chetol
Suann Chi
Additional Major: Biomedical Engineering
Tiffany Chiang
Additional Major: Robotics
Wai Sing Ching
Minor: Music Technology
Minor: Politics and Public Policy
Cornelia P. Chow
Bangyan Chu
Evan B. Compton
Minor: Computer Science
Karn Dalmia
Jack E. Dangremond
Brian M. Davis
Charlotte Deiss
Omar R. Deien
Additional Major: Computer Science
Kevin Michael Devincentis
Anji Diao
Additional Major: Human-Computer Interaction
Minor: Computer Science
David Y. Diao
Minor: Computer Science
Dalu Ding
Minor: Computer Science
Kevan Dodhia
Haocheng Dong **
Minor: Computer Science
Jens A. Ertman
Sam R. Fazel-Sarju

Yupeng Feng **
Additional Major: Human-Computer Interaction
Minor: Design
Angela F. Gao **
Additional Major: Biomedical Engineering
Kashish Garg
Minor: Computer Science
Nakul Garg
Leroy J. Gary
Shreyas Gatuku **
Minor: Robotics
Pierre Germa
Additional Major: Biomedical Engineering
Evan J. Glaser **
Neeraj A. Godbole
Zhiqui Gong
Manu Gopakumar
Alexander Dean Gotsis
David A. Gronlund
Zilei Gu **
James A. Gualtieri
Ranuak Sanjay Gupta
Additional Major: Computer Science
Scott F. Hamal
David E. Hanna
Stephen He
Additional Major: Computer Science
Caroline J. Hermans **
Additional Major: Engineering and Art
Minor: Media Design
Arman Hazarkhani
Nolan Hiehle
Tianhan Hu
Minor: Computer Science
Sheng-Hao Huang
Ze Ming Benjamin Huang
Additional Major: Computer Science
Sue Jeong Hur **
Ji Yeon Hwang
Minor: Computer Science
Surbhi Inani
Isha Iyer
Minor: Animation and Special Effects
Akshat Jain
Arihant Jain
Karen A. Johnson
Maxwell S. Johnson
Minor: Computer Science
Anja Kalaba
Additional Major: Physics
Kanupriya Kanupriya
Matthew J. Kasper
Minor: Computer Science
Dhruba Kaushal
Robert A. Keller **
Theodore E. Kern **
Riki Singh Khorana
Munsung Kim **
Minor: Business Administration
Samuel Kim
Young Chan Kim
Additional Major: Computer Science

Indu Nhalil Korambath
Additional Major: Engineering and Public Policy

Kyle Kozlowski
Edric Harrison Kusuma
Aaron Ephraim Landau **
Siddhath Lathar
Michaela G. Laurencin

Chung Seob Lee
Ryan N. Lee
Theodore C. Lee
John N. Lenney
Nathan M. Levin

Ai Li **
Charles Li
Additional Major: Engineering and Public Policy

Jessie W. Li
Minor: Computer Science

Siliang Li
Minor: Computer Science

Tianqi (Roy) Li
Minor: Computer Science

Kimberly Jinxia Lim
Irene Lin
Hailiang Liou
Ruixuan Liu
Minor: Robotics
Xinna Liu
Matteo J. Longo
Zixu Lu
Charlie W. Ma **
Yuqing Ma **

Cameron A. Mackintosh
Sasikala Mani
Minor: Business Administration
Minor: Computer Science

Alisha Mayor
Mark N. McKinzie
Tanushree Mediratta
Rajat Mehndiratta
Eric T. Mendez
Minor: Audio Engineering
Adriel J. Mendoza
Allison F. Meyer
Eshani Mishra
Priyanka Mishra **
Sara Misra
William James Mitchell
Minor: Philosophy

Syed Raziq Mohideen
Isabel E. Murdock
David K. Murray

Amolak Nagi **
Shruti Narayan

Karthis Natarajan
Additional Major: Computer Science
Minor: Business Administration

Amukta P. Nayak
Minor: Game Design

Yu-Ming Nio
Minor: Human-Computer Interaction
Minor: Learning Media

Catherine M. O’Callaghan
Chinedu Ifeanyi Ojukwu
Joel Richard Osei

Christina Heather Ou
Minor: Computer Science

Raymond J. Paetz
Minor: Physical Computing
Sourav Panda

Arushi Patel **
Additional Major: Biomedical Engineering
Philip Georges Petrakian

Zachary B. Pomper
Minor: Social and Political History

Adithya Raghuraman

Oscar A. Ramirez Poulat

Aditya Ranade

Nikhil Rangarajan
Richa Ravi

Christopher A. Reed
Minor: Audio Engineering
Minor: Sound Design
Diego A. Rodriguez
Sandra Sajeev

Sribhuwan Saajja
Allison V. Scibisz

Nathan P. Serafin **
Snigdha Sharma **

Andy S. Shen
Minor: Business Administration
Shivani S. Sheth **
Haohan Shi

Hawwen Shi
Additional Major: Robotics

Xiang Shi
Minor: Computer Science
Rei E. Siew Hew Sam **
Kevin M. Song

Anirudh Sridhar *
Minor: Mathematical Sciences
Eri Sugita
Eric H. Sun
Brandon R. Takao
Minor: Business Administration

Bridget Tan
Minor: Audio Engineering
Abhishek Tatal *
Additional Major: Human-Computer Interaction
Minor: Innovation and Entrepreneurship

Elizabeth R. Thrasher
Additional Major: Psychology
Minor: Computer Science

Joseph Wang
Cooper P. Weaver
Olivia C. Weiss
Minor: Computer Science

Daniel R. Worrell **
Jingze Wu

Jennifer R. Xiao **
Wenxin Xiao
Additional Major: Statistics

Harry Jefferson Xu
Minor: Computer Science

Xiang Xu **
Harsh Yallapantula

Yuan Yu Derek Yan
Chen Yang **
Minor: Robotics

David Z. Yang
Zexi Yao

Michael Caleb You
Additional Major: Computer Science

Connor C. Young **
Minor: Business Administration

Sihaoyu **
Yi Lun Yu

James H. Zhang

Stanley Z. Zhang
Minor: Human-Computer Interaction
Yuzhe Zhang
Minor: Music

Tian Zhao
Additional Major: Computer Science

Xinyu Zhao

Yanying Zhu
Minor: Japanese Studies

MASTER OF SCIENCE

Electrical and Computer Engineering

Aline Abimana **
Evan J. Adkins *
Nnamdi Adom **

Anuj Ablawalia **
Nail Etkin Can Akkaya
Fatema Almeshqab

Nathan S. Appelson *
Prashant Arunapuram

Rachel Elizabeth Atkinson
Vivaan R. Bahl
Sarika Bajaj

Homer F. Baker IV
Matthew C. Baron *

Sakhthikarthik Baskar
Christopher Brennan Bayley
Raghav G. Behl **

Umang S. Bhatt
Aayush Bhutani
Ilan Biala

Justin Bigwi Jobo **

Universities Honors
College Honors
Both
Elliott David Binder
Nikhil R. Birmiwal
Mark Blanco
Amirali Boroumand *
Sean Buckley **
Biqing Cao *
Qiyang Cao **
Noah Ronald Carlson
Darion Cassel
Lam Wing Chan **
Ananya Chandra
Wei Ling Chang
Allen Chao
Bonny Chen **
Chaoqun Chen
Jaron Chen **
Junye Chen
Peng Chen
Sijia Chen **
Tianbo Chen
Weiqiao Chen
Yang Chen **
Yonglin Chen
Yunqian Chen
Kin Sang Ching
Wai Sing Ching
Varsha Chinnaobireddy **
Maitreyi Sunil Chitale
Kevin H. Chon
Cheng-Ming Chow
Matthew S. Chu **
Duo Cui **
Ran Cui
Rachana Danavadi
Darius Davis
Robert F. Davis
Peter Quentin Salisbury de Groot **
Karan Dhabalia
Guillaume Didier
Nathalie Polanco Domingo
Hongbo Du **
Xiangyu Du
Xiaohui Du **
Yicong Du **
Pariskshit Dutt **
Raewyn Arcadia Duvall
Edward J. Escandon **
Yi Fan
Yunfei Fan
Eric L. Fang **
Haocheng Fang
Nicholas Ferris **
Tong Fu
Parvathy Geetha **
Stuti Ghiya
Evan J. Glaser
Abhiram N. Gogate
Joshua B. Goldstein
Tyler F. Goulding
Raghav Goyal
Marcus G. Greer
Zilei Gu
Ning Guan
Tushita Gupta **
Oyku Han **
Matthew R. Harding
Madhumita Harish
Yasamin Sadat Hashemi Tari
Shuqi Hu **
Yichen Hu **
Felix Huang
Hengji Huang
Rui Huang **
Xiukun Huang **
Haywood Hunter
Felicien Jean Ihirwe **
Priyanshi Jain
Adhishree Jaiprakash
Anubhav Jaiswal **
Hao Jia
Xiaotong Jia
Luxing Jiang
Ji Jin
Naveen Shankarappa Kakarla **
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Theodore E. Kern
Kartik Khandelwal
Shaurya Khazanchi
Hyun Jung Kim
Munsung Kim
Sophia Kovaleva
Aditya Ramanand Kudva **
Rishabh Kumar
Anthony Allen Kuntz
Ian-Jiuin Lai **
Maya Marguerite Lassiter
Yuqi Lei
Ai Li
Evan K. Li
Tianyu Li **
Ximing Li
Xiuying Li
Zesheng Li
Hongliang (Joe) Liang *
Cong Liao
Joseph Liha
Kimberly Jinxia Lim
Nanjian Lin
Bifei Liu
Bing Liu **
Bowei Liu **
Jennifer Liu
Minyue Liu **
Reid Eric Long Jr. **
Alvin K. Luk
Annan Ma
Charlie W. Ma
Lefu Maqelepo **
Daniel Fekadu Marew **
Scholastica Myrabel Memusi **
Jeremy Meola
Felustus Ayera Misiko **
Saurabh Misra
Vaihbav Mittal
Nikhil Mohan
Lalitesh Morishetti **
Twarik Harouna Mugumya
Joel Mugyenyi **
Rodrigo Rene Rai Munoz Abujder **
Mira Murali
Namrita P. Murali **
Adit P. Namdev **
Aadya Natesan
Adolphe Ndagijimana **
Shichao Nie
Xiaoning Nie
Agatha Niwomugizi **
Daniel Kenechukwu Nkemelu
Peter Oostema
Hector G. Ostolaza **
Dibyajyoti Pal
Aditya Prakash Pandey
Sofia Pando
Malik B. Parker
Arushi Patel
Bryce Patel **
Rohit B. Pillai **
David Zeyu Qing
Zeqi Qiu **
Manoj Raghunathan
Tummise Ibukun Raja
Anirudh Ramakrishnan
Srnuthi Ramesh
Varun Raghav Ramesh **
Lokeshwaran Ravi
Nkusi Richard **
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Emily Ruppel
Wilson Sa
David Sanders **
Adilet Segizekov
Ford L. Seidel
Nathan P. Serafin
Omar Serrano **
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Pragya Sharma **
Marie N. Shaw **
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Kuangji Shen
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Rei E. Siew Hew Sam
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Christopher V. Smith
Cody Smith
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Zhaoxiong Song
Deborah Soung **
Nandagopal Srinivasan
Daniel A. Stiffler **
Bradley John Stocks **
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Rutvij Supekar
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Xin Tu
Felix Uwizeye **
Aravind Vadali
Ian Van Stralen **
Dishita Vashi
Sidharth Verma
Karun Raju Vysyaraju
Satyavrat Rajaram Wagle **
Devesh Walawalkar
Matthew Walck
Rongzhi Wan **
Chaoying Wang
Dong Wang
Han Wang **
Hongtian Wang
Lanxiang Wang
Shaoquan Wang
Wei Wang **
Colin R. Wee
Xining Wei **
Samuel T. Westenberg
Fangjing Wu **
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Jieying Xu **
Yefei Xu
Nithila Yalamanchi
Sai Bhargav Yalamanchi **
Harsh Yallapantula
Jin Yan
Can Yang **
Cody Y. Yang
Jiawei Yang
Yimin Yang
Benjamin V. Yates **
Jun Ye **
Nebiyou Yismaw **
Alexander Yu
Jiaxin Yu
Zhening Yue
Ming Zeng
Andrew Zhang
David Zhang **
Diana Zhang *
Hengruo Zhang **
Hongxi Zhang
Jiayuan Zhang
Libing Zhang
Yilin Zhang
Zhengkai Zhang
Zhihe Zhang
Jeffrey H. Zhao **
Yuxiang Zhao
Kevin Zheng **
Hancheng Zhong **
Yuanyuan Zhou
Jie Zhu

Software Engineering
Mingxuan Chai
Priyanka Chatterjee
Anzhe Chen **
Xinyuan Chen **
Tianxin Chu **
Hao Cui
Xiaoyi Duan
Ruochen Fang
Yen Feng **
David Freilich **
Mengye Gao
Jin Gong **
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Yizhao Han
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Sabrina Hsu
Jialin Huang **
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Siva Rama Krishna Kuntamukkala **
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Ye Li
Zhenyi Li **
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Yue Yang **
Kai Yao **
Tianyu Yao **
Hang Yin **
Haiyang Yu
Amy X. Zhang **
Bowen Zhang **
Jun Zhang **
Nan Zhang
Changjiang Zhong
Haoran Zhou **
Yuchen Zhou

DOCTOR OF PHILOSOPHY
Raied Aljadaany
Robust Blind Image Reconstruction from Low Resolution Corrupted Data Using Proximal Deep Networks
Advisor(s): Marios Savvides
Jassim M. Aljuraidan **
Information-Flow Control in Modern App Platforms: Modeling, Formal Verification and Controlled Declassification
Advisor(s): Lujo Bauer
Youzhi Bao *
Autonomous Computer Security Game: Techniques, Strategy and Investigation
Advisor(s): David Brumley
Aniruddha Basak *
Scalable Bayesian Network Learning and Its Applications
Advisor(s): Ole J. Mengshoel
Maxim A. Buevich **
A System Architecture for Energy Theft Detection and Localization in Microgrids
Advisor(s): Anthony Rowe

Ermao Cai *
Power/Performance Modeling and Optimization: Using and Characterizing Machine Learning Applications
Advisor(s): Diana Marculescu

Chen Chen *
Infrastructure-Based Anonymous Communication Protocols in Future Internet Architectures
Advisor(s): Adrian Perrig

Yuan Chen
Secure Distributed Inference
Advisor(s): Soummya Kar, José M.F. Moura

Zhuo Chen
Learning for and with Efficient Computing Systems
Advisor(s): Diana Marculescu

Chiyu Dong
Behavior Prediction in Autonomous Driving
Advisor(s): John M. Dolan

Burak Erbagci **
Hardware-Entangled Inherently Secure Field Programmable Gate Arrays
Advisor(s): Ken Mai

Christopher Ian Fallin
Finding and Exploiting Parallelism with Data-Structure-Aware Static and Dynamic Analysis
Advisor(s): Philip Gibbons, Todd Mowry

Mats Forsell
Long-Term Insulation of Active Electronics Embedded in Compliant Neural Probes
Advisor(s): Gary K. Fedder

Mary Elizabeth Galanko **
Nonlinear Resonant MEMS RF Demodulator for a Near-Zero-Power Wake-up Receiver
Advisor(s): Gary K. Fedder

Liangyan Gui
Towards Human-Like Motion Prediction
Advisor(s): José M.F. Moura

Aaron Harlap
Improving ML Applications in Shared Computing Environments
Advisor(s): Gregory R. Ganger, Phillip Gibbons

Hsu-Chieh Hu
Computational Urban Network Control: Using Schedule-Driven Traffic Control to Mitigate Network Congestion
Advisor(s): Stephen F. Smith

Zhao Hui
Shape, Reflectance and Illumination Estimation From Mobile Devices
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Meric Isgenc
Enabling Design of Low-Volume High-Performance Integrated Circuits
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Novel Control Algorithms for Hierarchical Control of Power Systems
Advisor(s): Soummya Kar

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Electrically Gated Nanoporous Membranes for Smart Drug Delivery and Biomedical Devices
Advisor(s): Jeffrey A. Weldon

Satwik Kottur
Visual Dialog: Towards Communicative Visual Agents
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Ritchie Lee
Advisor(s): Ole J. Mengshoel

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Integrated HAMR Light Delivery System via High Q Resonators
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Learning Task-Oriented Dialog with Neural Network Methods
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Xiaofei Liu **
Advisor(s): Bruno Sinopoli

Chieh Lo **
Modeling and Controlling of Multiscale Biological Networks with Applications to Precision Medicine
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Stephanos Yuji Matsumoto
Effective and Practical Improvements to the Web Public-Key Infrastructure
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Holmes: Binary Analysis Integration Through Datalog
Advisor(s): David Brumley

Anjali I. Menon
Robust Recognition of Binaural Speech Signals Using Techniques Based on Human Auditory Processing
Advisor(s): Richard Stern

Justin Meza **
Large Scale Studies of Memory, Storage and Network Failures in a Modern Data Center
Advisor(s): Omur Mutlu

Jose Jeronimo Moreira Rodrigues *
3D Pose Estimation for Bin-Picking: A Data-Driven Approach Using Multi-Light Images
Advisor(s): Pedro M.Q. Aguiar, Takeo Kanade, João M.F. Xavier

Amritanshu Pandey
Robust Steady-State Analysis of the Power Grid Using an Equivalent Circuit Formulation with Circuit Simulation Methods
Advisor(s): Lawrence Pileggi

Tiago Sousa Pereira
Robot-Dependent Maps for Coverage and Perception Task Planning
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Doru Adrian Thom Popovicii **
An Approach to Specifying and Automatically Optimizing Fourier Transform Based Operations
Advisor(s): Franz Franchetti

Xuanle Ren **
IC Protection Against JTAG/TTJAG-Based Attacks
Advisor(s): Ronald D. Blanton, Vitor G. Tavares

Fazle Sadi **
Accelerating Sparse Matrix Kernels with Co-Optimized Architecture
Advisor(s): Franz Franchetti, Lawrence Pileggi

Anit Kumar Sahu **
Inference and Optimization over Networks: Communication Efficiency and Optimality
Advisor(s): Soummya Kar

João Tiago Martins Pereira de Almeida Saude **
Mean-Field Games Theory, Numerics and Applications
Advisor(s): Diogo Gomes, João Pedro Gomes, Soummya Kar

Rongye Shi
Optimizing Passenger On Vehicle Experience Through Simulation and Multi-Agent Multi-Criteria Mobility Planning
Advisor(s): Peter Steenkiste, Manuela Veloso

Oliver Shih *
Learning to Listen: An Active Acoustic Approach to Sensing Spaces
Advisor(s): Anthony Rowe

Mazen Soliman **
Energy Efficient Mixed-Signal Circuits for 5G and Beyond
Advisor(s): Jeyanandh Paramesh

Ervin Teng
Time-Ordered Online Training of Convolutional Neural Networks
Advisor(s): Anthony Rowe

Jesse Alan Thornburg **
A Tool for Probabilistic Evaluation of Microgrid Operating Strategies with Demand Side Management
Advisor(s): Bruce H. Krogh

Evgeny Toropov
Road Traffic Analysis with Surveillance Cameras Using Synthetic Training Data
Advisor(s): José M.F. Moura

Chia-Yin Tsai
Shape from Multi-Bounce Light Paths
Advisor(s): Aswin C. Sankaranarayanan

Jian Wang *
High Resolution 2D Imaging and 3D Scanning with Line sensors
Advisor(s): Srinivasa G. Narasimhan, Aswin C. Sankaranarayanan

Yu Wang **
Accelerating Graph Processing on a Shared-Memory FPGA System
Advisor(s): José M.F. Moura

Sean Chandima Weerakkody **
Active Detection for Resilient Cyber-Physical Systems
Advisor(s): Bruno Sinopoli

Zachary Weinberg **
Toward Automated Worldwide Monitoring of Network-Level Censorship
Advisor(s): Nicolas Christin

Yang Yaoqing
Coded Computing: New Approaches for Elastic and Robust Multi-Stage Computing
Advisor(s): Pulkit Grover, Soummya Kar
Tong Yu **
Adaptive and Robust Online Learning in Complex Real-World Problems
Advisor(s): Ole J. Mengshoel

Ming Zeng
Deep Neural Networks for Wearable-Based Human Activity Recognition
Advisor(s): Ole J. Mengshoel

Yingrui Zhang
Modeling, Analysis and Optimization of Robustness in Interdependent Networks
Advisor(s): Osman Yagan

Nichole Lynn Hanus *
An Engineering and Behavioral Sciences Approach to Understand and Inform Energy Efficiency and Renewable Energy Decision-Making
Advisor(s): Gabrielle Wong-Parodi

Lynn Helena Kaack
Challenges and Prospects for Data-Driven Climate Change Mitigation
Advisor(s): M. Granger Morgan

Jeremy Franklin Keen
Stakeholder Costs and Benefits of Distributed Energy Resources on Distribution Networks
Advisor(s): Jay Apt

Sarah M. Lescano
Connected Vehicles for Internet Access: Deployment and Spectrum Policies
Advisor(s): Jon Peha

Aviva S. Loew **
Tradeoffs in Energy, Water Use and Cost at Thermoelectric Power Plants
Advisor(s): Paulina Jaramillo, Allen Robinson

Sinnott J. Murphy
Correlated Failures and Power System Reliability
Advisor(s): Alex Davis

Brian Joseph Sergi
Decisions and Uncertainties in the U.S. Energy Sector: Electrofuels and Other Applications
Advisor(s): Inês Azevedo

Xiaodi Sun
Pollution Externalities and Emissions Consequences of the U.S. Electricity Sector
Advisor(s): Inês Azevedo

Arsene Indamutsa
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Marie Claudine Ingenere
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Joan Kirunga **
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INFORMATION NETWORKING INSTITUTE

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Information Security
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Mengqi Mu
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Bharathwaj Tiruputkuzhi
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Rahul Raja
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Sihan You **
Jiayu Yu **
Zhi Zeng **
Shaoxiong Zhang **
Chao Zhao **
Rongpeng Zheng **
Jin Zhu **

MATERIALS SCIENCE & ENGINEERING
BACHELOR OF SCIENCE
Materials Science and Engineering
Gaurav Balakrishnan
Additional Major: Biomedical Engineering
Vineetha S. Bheemarasetty
Additional Major: Physics
Mari-Therese S. Burton
Allison M. Caron
Additional Major: Biomedical Engineering
Shuchen Cong
Additional Major: Engineering and Public Policy
Sophia T. Eristoff
Additional Major: Biomedical Engineering
Max B. Farfel
Jack A. Forman
Additional Major: Biomedical Engineering
Tala Habhab
Additional Major: Biomedical Engineering
Materials Science and Engineering

Abhinay Bhagat
Haomin Chen
Megan Katherine DeBar
Zihao Guo
Ke-Wei Jin **
Nicholas Shephard Johnson **
Christopher Aaron Kantzos **
Andrew Robert Kitahara
Nicholas Latwis
Bo Lei **
Aditya Menon **
Elyce A. Milligan **
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Alexandra C. Moy
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Nicholas Scherl
Shiqi Sheng
Lonnie Alexander Smith
Maria Anida Stang
Joseph Newton Tessmer **
Vignesh Viswanathan **
Liam Charles Wisehart *
Yumin Yan
Zihui Yang
Enbo Zhang **
Yumin Zhang
Zhe Zhao
Catherine Lin Zhou

Yu-Ting Hsu
Simulation of Local Electrochemistry in Solid Oxide Fuel Cell Microstructures by High Performance Computation
Advisor(s): Shawn Litster, Paul A. Salvador

Minyoung Jeong *
Measurements of Thermal Properties of Phonon Bridge Adhesion Layers, Nanogaps and Metal–Organic Frameworks Using Frequency-Domain Thermoreflectance (FDTD)
Advisor(s): Jonathan Malen

Isha Kashyap *
Quantitative Characterization of Magnetic Domain Structure in Near Eutectoid Co,Pt,Al Alloys
Advisor(s): Marc De Graef

Ik Soo Kwon *
Multimodal Control of Adhesion in Polydopamine Nanomembranes Through Texture, Microstructure and Chemistry Control
Advisor(s): Christopher Bettinger

Derek Kit-Lun Lau *
Experimental Evaluation of the Interfacial Dzyaloshinskii-Moriya Interaction in Co/Ni Magnetic Multiayers
Advisor(s): Vincent Sokalski

Dasheng Li *
Study of Thermal-Induced Threshold Switching Devices for Selector Applications
Advisor(s): Marek Skowronsik

Yu Lin *
New High Toughness Ultra-High Strength Steels: Effects of Composition and Heat Treatment on Strength and Toughness
Advisor(s): Warren M. Garrison

Ankita Mangal *
Applied Machine Learning to Predict Stress Hotspots in Materials
Advisor(s): Elizabeth Holm

Stephano Papadopoli Tonelli Piva *
Metallic Inclusion Changes in Si-Mn Killed Steels
Advisor(s): P. Chris Pistorius

Shivram Kashyap Sridhar **
Study of Correlation Between Microstructure and Mechanical Properties in Nickel Titanium Used for Biomedical Applications
Advisor(s): P. Chris Pistorius

Mary Elizabeth Story *
Microstructural Effects on High Temperature Selective Oxidation of CMnSi Advanced High-Strength Steels
Advisor(s): Anthony D. Bollett

Michelle Tsui
Mechanics of Rigid Rod Networks: Interplay of Junction Properties and Strand Rigidity
Advisor(s): Mohammad F. Islam
<table>
<thead>
<tr>
<th>Name</th>
<th>Minor/Additional Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obehioye M. Adubor</td>
<td>Robotics</td>
</tr>
<tr>
<td>Samrose Ahmed</td>
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</tr>
<tr>
<td>Da Young Ahn</td>
<td>Minor: Business Administration</td>
</tr>
<tr>
<td>Kwadwo Akompong</td>
<td>Minor: Robotics</td>
</tr>
<tr>
<td>Benjamin R. Almack</td>
<td>Additional Major: Engineering and Public Policy</td>
</tr>
<tr>
<td>Berk A. Alper</td>
<td>Minor: Social and Political History</td>
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<tr>
<td>Christine T. Amin</td>
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<td>Jens M. Andersen</td>
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<tr>
<td>Ethan D. Anderson</td>
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<tr>
<td>Fabian E. Aristizabal</td>
<td>Additional Major: Physics</td>
</tr>
<tr>
<td>Bryant J. Backus **</td>
<td></td>
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<tr>
<td>Lior Barhai</td>
<td>Minor: Mechanical Behavior of Materials</td>
</tr>
<tr>
<td>Monica Barragan</td>
<td>Minor: Robotics</td>
</tr>
<tr>
<td>Gabriel M. Bay</td>
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<tr>
<td>Justin P. Belardi</td>
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<tr>
<td>Noah N. Berhanu</td>
<td>Minor: Technical Writing</td>
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<tr>
<td>Riddhiman Bezburaah</td>
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</tr>
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<td>Molly M. Boerner</td>
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<tr>
<td>Christopher Bright Jr.</td>
<td>Minor: Robotics</td>
</tr>
<tr>
<td>Victoria R. Brichter</td>
<td></td>
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<tr>
<td>Emily Dominus Broude</td>
<td>Additional Major: Biomedical Engineering</td>
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<tr>
<td>Dominique B. Brych **</td>
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<td>Jeffrey S. Campbell</td>
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<tr>
<td>Kamal R. Carter</td>
<td>Minor: Robotics</td>
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<tr>
<td>Eison Chiang</td>
<td>Additional Major: Engineering and Public Policy</td>
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<tr>
<td>Shivang Chordia *</td>
<td>Minor: Physics</td>
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<tr>
<td>Theodore Chou</td>
<td>Additional Major: Robotics</td>
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<tr>
<td>Yu Ree Chu</td>
<td>Minor: Chinese Studies</td>
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<tr>
<td>Jiwon Chung</td>
<td>Additional Major: Engineering and Public Policy</td>
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<td>Jerrod W. Coning **</td>
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<td>Christopher D. Cortez</td>
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<td>Asad Dar</td>
<td>Minor: Business Administration</td>
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<td>Yosser A. D’Avanzo *</td>
<td>Minor: Robotics</td>
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<tr>
<td>Krishna Dave</td>
<td>Additional Major: Engineering and Public Policy</td>
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<td>Pieter De Buck</td>
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<td>Jason Y. Deng</td>
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<td>Nicholas Desmornes **</td>
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<td>Nathan Dozier</td>
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<td>Ryan T. DuBois</td>
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<td>Samantha R. Ealy</td>
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<td>Patrick Joseph Ehlund</td>
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<td>Vida Ekhlas</td>
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<tr>
<td>Elizabeth C. Elrod</td>
<td>Additional Major: Engineering and Public Policy</td>
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<td>Hao Feng **</td>
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<tr>
<td>Shannon N. Finnerty</td>
<td>Minor: Music</td>
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<td>Alan B. French</td>
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<td>Raymond H. Galezra</td>
<td>Additional Major: Robotics</td>
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<td>Ashwini S. Ganpule</td>
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<tr>
<td>Shalena Michelle Garbutt</td>
<td>Minor: Business Administration</td>
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<td>Randy Garcia **</td>
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<td>Andre Francisco Gutierrez Marty</td>
<td>Additional Major: Biomedical Engineering</td>
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<td>Jacob M. Halasowski</td>
<td>Minor: Physics</td>
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<td>George Andrew Harter **</td>
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<tr>
<td>Aleah Loren Haygood</td>
<td>Additional Major: Biomedical Engineering</td>
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<tr>
<td>Qu He *</td>
<td>Minor: Japanese Studies</td>
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<tr>
<td>Sarah R. Hempton</td>
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<td>Evan K. Hill **</td>
<td>Minor: Physical Computing</td>
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<td>Nicole T. Ho</td>
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<td>Marshall Hoebing</td>
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<tr>
<td>Richard C. Hoffberg</td>
<td>Minor: Social and Political History</td>
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<tr>
<td>Marcus Horn</td>
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<td>Terence Yiyuan Huang</td>
<td>Additional Major: Engineering and Public Policy</td>
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<td>Calvin R. Hubbard</td>
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<tr>
<td>Sarah Jane Jurgens</td>
<td>Minor: Hispanic Studies</td>
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<td>Sarah A. Karp **</td>
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<td>Jack A. Kasbeer **</td>
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<td>James W. Kromka</td>
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<td>Matthew S. Kubala</td>
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<td>Hans Kumar</td>
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<td>Elizabeth F. Kuo</td>
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<td>Michelle A. Kyin</td>
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<td>Katie Lam</td>
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<td>Kimberly K. Lamberti</td>
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<td>Arthur F. Levy</td>
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<td>Charles Li</td>
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<td>Diana Li</td>
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<td>Yiran Li</td>
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<td>Oliver C. Liburd</td>
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<tr>
<td>Jasmine Lim</td>
<td>Additional Major: Engineering and Public Policy</td>
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<td>Yu Chuan (Tiffany) Lin **</td>
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<td>Gerardo D. Lira</td>
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<td>Shuo Liu</td>
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<td>Misbah Fatima Lokhandwala</td>
<td>Minor: Gender Studies</td>
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<tr>
<td>Hannah K. Luy</td>
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<td>Brinda Malhotra *</td>
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<td>Raul Cuahatemoc Martinez</td>
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<td>Zachary P. Masciopinto</td>
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<tr>
<td>John M. McCambridge</td>
<td>Minor: Business Administration</td>
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<tr>
<td>James Michael McMurray Jr. **</td>
<td>Minor: Social and Political History</td>
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<tr>
<td>Fernando D. Melean Aquino</td>
<td>Additional Major: Computer Science</td>
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<td>Michael C. Messersmith</td>
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<td>Sarah M. Miholer **</td>
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<td>Gregory P. Miller</td>
<td>Additional Major: Computer Science</td>
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<tr>
<td>Justin Mitchell</td>
<td>Minor: Robotics</td>
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<td>Jaesohn T. Moncrieffe</td>
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<td>Kara Nickolich</td>
<td>Additional Major: Biomedical Engineering</td>
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<tr>
<td>Diya A.N. Nuxoll **</td>
<td>Minor: Hispanic Studies</td>
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<td>Minor: Robotics</td>
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<td>Sang Hwan Oh **</td>
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<td>Natsumi Omori</td>
<td>Additional Major: Biomedical Engineering</td>
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<td>Gwendolyn Louise Opiela</td>
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<td>Amber Celine Paige</td>
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<td>Grace D. Palmieri</td>
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<td>Mecca Jamal Parker</td>
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<td>Samuel N. Passell</td>
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<td>Henry A. Peck</td>
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<td>Doria Pei</td>
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<td>Alexander Joseph Peltier</td>
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<td>Spencer Persaud</td>
<td>Additional Major: Robotics</td>
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<tr>
<td>Nicholas D. Peterson</td>
<td>Minor: Music</td>
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<td>Alan H. Qiu</td>
<td>Additional Major: Computer Science</td>
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<td>Danielle K. Quan **</td>
<td>Additional Major: Robotics</td>
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<td>Cesar E. Quinones</td>
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</tbody>
</table>
Tyler Quintana  
Additional Major: Philosophy
Mitchell Y. Riek **
Kyle Robinson
Shani Rosenthal
Orson M. Rossetto
Berk Sahin  
Additional Major: Biomedical Engineering
Nicole Scavone  
Minor: Physics
Simone Schneeberg  
Minor: Drama
Grant T. Schwabacher  
Additional Major: Engineering and Public Policy
Runmiao Shi  
Minor: Media Design
MarieRosa G. Shin  
Minor: Music
Minor: Robotics
Benjamin M. Shorey
Benton Shortridge
Daveanand M. Singh  
Additional Major: Biomedical Engineering
Hardik Singh
Kenneth M. Sladick
Bridget P. Soderna  
Additional Major: Biomedical Engineering
Hyeon Ju Song  
Additional Major: Biomedical Engineering
Tajh J. Spigner  
Additional Major: Biomedical Engineering
Morgan R. Stanley
Krystal A. Suero
Yuzhe Sun  
Additional Major: Computer Science
Matthew D. Swain
Taylor J. Taib **
Alexandra Tamburro
Kaizad F. Tarapovela  
Additional Major: Robotics
Joe Shibata Taylor
Omar Tena  
Minor: Additive Manufacturing
Emily M. Tolmer
Hai Duy Tran  
Additional Major: Robotics
Long Tran  
Additional Major: Biomedical Engineering
Kelly Christina Underwood **
Ashikam O. Undieh
Parker Noah Valdez  
Minor: Robotics
Daniel K. Vedova  
Additional Major: Robotics
Morgan M. Wagner
Liam J. Walsh
Yufan Wang **
Minor: Business Administration
Michelle Wiedmann
Khalil Williams  
Minor: Biomedical Engineering

Brendan D. Wixen  
Additional Major: Robotics
Clement Wong  
Additional Major: Engineering and Public Policy
Samantha Jane Wong  
Minor: Design
Yiran Xuan  
Minor: Innovation and Entrepreneurship
Benjamin Yampolsky  
Minor: Creative Writing
Justin Yeh
Justine Alexandra Gomez-Ibañez Zeller  
Additional Major: Biomedical Engineering
Minor: Hispanic Studies
Hengrui (Henry) Zhang
James H. Zhang  
Additional Major: Engineering and Public Policy
Oliver Z. Zhang  
Additional Major: Robotics
Zheyao Zhu  
Minor: Robotics
Paula Zubiri

MASTER OF SCIENCE

Computational Design and Manufacturing
Kaushik Rajendra Apte **
Balarama Raju Buddharaaju **
Abhishek Chandrakar **
Javier Chauvin **
Ziyin Huang
Tianyu Li **
Siri Katrina Maley
Sandeept Dilip Mistry **
Sagar Jitendra Patel **
Glenn Walker McElroy Philen
Satyen Rajpal **
Jageet Singh **
Teng Tu
Zhuohao Zhang **

Mechanical Engineering
Kumar Nikhil Raj Agrawal
Charles A. Aguilar **
Joonghyun Ahn
Michael S. Auda **
Bryant J. Backus
Jiyeon Bae **
Vijayaram Balasubramanian **
Saurabh Banga **
Sanket Satish Bhilare **
Daniel Oded Bregman
William Bromby **
Thomas A. Brubaker *
Fernando R. Canari **
Leonardo Jesus Cervantes *
Raghu Aditya Kiran Chavali
Wei Chen **
Wei Lun William Chen **
Xuan Chen
Zhenglin Chen **
Chih-Yang Cheng
Mark Cho
Alexander Christodoulides
Tao Chu **
Yueh-Han Chuang **
Taylor Albert Clayton
Jerrod W. Coning
Christopher D. Cortez
Stephen Andrew Coyle
Bolun Dai
Ding Daming **
Nicholas Desmornes
Anish Deva
Wei Du
Runlin Duan **
Jonathan C. Dyer
Katherine T. Fair **
Yixiao Fang **
Bo Fu
Yuhe Fu **
Mihir Tushar Gandhi **
Kai Ge **
Harsh Nirmal Gehani **
Sarah Elsie Georges
Michael Josiah Goodspeed
Colin Grossman-Cross
Ke Han **
Samuel M. Hassel Jr.
Disheng Hou **
Chen Hu
Leiming Hu **
Yuzhong Hua
Yen-Hsiang Huang **
Zijing Huang **
Andrew Colin Hunt **
Thomas M. Ikuss III
Christian W. Ingham
Haoiang Jiang
Yang Jin **
Teresa A. Kent
Wooshik Kim
Timothy Soowan Kyung
Josephine Ruth LaCoe **
Jack H. Lance
Evan J. Larrick **
Han-Yu Lee **
Jin Yang Li
Mengjie Li
Muxi Li **
Wenliang Li **
Xiaorui Li **
Xiaoxiong Li **
Ya Qi Li
COLLEGE DEGREE LISTINGS

28

2018

Rae-Djamaal Wallace
Austin Shih-Ping Wang
Jiayi Wang **
Qi Wang
Wei Wang **
Xiaobo Wang
Xueqiang Wang **
Yuyang Wang
Zihao Wang **
Barrett Larned Werner
Di Wu **
Qingyuwan Wu
Haosen Xing
Qin Xu **
Xiaomin Xu
Yigit Yakupoglu
Zeyu Yan
Zhangshiao Yang
Wenzhao Ye
Zisheng Ye
Siqi You **
Dali Yu **
Xinjia Yu
Ant Yucesoy
Adam Z. Zelooof
Wenyuanyuan Zhang **
Yan Zhang
Yichen Zhang **
Zheyuan Zhang **
Bryan Zhao
Yichen Zheng **
Hanwei Zhou

DOCTOR OF PHILOSOPHY

Wei Chen
Advisor(s): Burak Ozdoganlar

Stuart B. Diller **
Advisor(s): Steve Collins, Carmel Majidi

Joshua M. Giltinan
Actuation and Addressability for the Manipulation of Objects by Magnetic Microsorb Capticpillary Grippers
Advisor(s): Metin Sitti

Peishi Gu
Characterizing the Intra-City Spatial Patterns on Multi-Scales of Air Pollution and Source Contributions with Mobile Sampling Platforms
Advisor(s): Albert Presto

Keith Heyde *
Engineering Automated Mechatronic Systems with DNA-Encoded Microcontrollers
Advisor(s): Phil LeDuc, Warren Ruder

Changho Oh *
Effects of Surface Preparation, Processing, Materials and Operating Conditions on MEMS Switch Contact Reliability
Advisor(s): Maarten P. de Boer

Steven Rich **
Electrically Activated Stiffness-Switching with Low-Melting-Point Conductive Thermoplastic
Advisor(s): Carmel Majidi

Mohammad Sadeq Saleh
Advisor(s): Rahul Panat

Oleg B. Sapunkov
DFT Applications of the Ising Model
Advisor(s): Venkat Viswanathan

Ramesh Shrestha *
Thermal and Mechanical Properties of Individual Polymer Nanofibers
Advisor(s): Maarten P. de Boer, Sheng Shen

Donghoon Son **
Localization, Calibration, Control and Design of Magnetically Actuated Soft Capsule Endoscopes
Advisor(s): Steve Collins

Ved Vyas *
Generation and Conditioning of Metric Tensor Fields for Design, Analysis and Manufacturing Applications
Advisor(s): Kenji Shimada

Kirby Ann Witte **
Design, Characterization, and Implementation of Lower-Limb Exoskeletons for Performance Enhancement During Walking and Running
Advisor(s): Steve Collins

Shichao Yang **
Monocular Visual SLAM with Object and Layout Understanding
Advisor(s): Sebastian Scherer

Zhou Yu *
Developing Tissues with Biomimetic Topographies and Vasculature Through Micromachining and Extrusion-Based 3D Printing
Advisor(s): Phil LeDuc, Burak Ozdoganlar

STUDENT-DEFINED MAJORS

BACHELOR OF SCIENCE

Global Perspectives and Technology
Alicia R. Carrion
Minor: Engineering Studies

Financial Services and Innovation
Awetu Magege
Minor: Engineering Studies

Technology and Humanistic Studies
Arnelle Etienne

*GRADUATED 14-AUG-2018 **GRADUATED 19-DEC-2018
College of Fine Arts

DEAN OF THE COLLEGE
Dan J. Martin

SCHOOL OF ARCHITECTURE
Stephen Lee, Head of the School

SCHOOL OF ART
Charlie White, Head of the School

SCHOOL OF DESIGN
Terry L. Irwin, Head of the School

SCHOOL OF DRAMA
Peter Cooke, Head of the School

SCHOOL OF MUSIC
Denis Colwell, Head of the School

STUDENT-DEFINED MAJORS
Kristen Letts Kovak, Senior Associate Dean for Academics

ARCHITECTURE

BACHELOR OF ARTS

Architecture
John C. Butler
Minor: Architecture History

Dina Chen
Minor: Computer Science
Minor: Physics

Emily Degrandpre
Caitlin E. Donnelly
Minor: Drama

Sung Phil Hwang

Harshvardhan Kedia

Hamza Q. Qureshi
Additional Major: Human-Computer Interaction

Jingyi Zhu
Minor: Architectural Representation and Visualization
Minor: Media Design

BACHELOR OF ARCHITECTURE

Architecture

Anirudh Anand
Minor: Architecture History

Ryan Auld
Minor: Social and Political History

Rachel A. Baker
Additional Major: Social and Political History

Zane S. Birenbaum
Minor: Engineering Studies

Gunn Chaiyapatranun
Minor: Architecture History
Minor: Japanese Studies

Serra Cizmeci
Minor: Psychology

Miranda C. Ford **
Minor: Building Science

Kerrian France
Minor: Anthropology
Minor: English

Yang Gao

Mounica Guturu

Irfan M. Haider

Zain Amir Islam-Hashmi
Minor: Architectural Design Fabrication
Minor: Intelligent Environments

Ritchie R. Ju

Jai Kanodia
Minor: Business Administration

Timothy N. Khalifa
Minor: Social and Political History

Gargi Lagvankar
Additional Major: Social and Political History

Chaeyun Lee

Nicole Somi Lee-Park
Additional Major: Chinese Studies

Elizabeth L. Levy
Minor: Environmental and Sustainability Studies

Kelly Li
Additional Major: Social and Political History

Bingxuan Liang
Minor: Photography

Xin Hui Lim
Minor: Media Design

Yushan Liu
Minor: Human-Computer Interaction

Hannah C. Martinez
Minor: Media and Studies

Isadora Martins
Emily M. Melillo
Minor: Art

Matthew L. Radican
Minor: Building Science

Somin Shim
Minor: Architectural Representation and Visualization

Sally Nayoung Sohn
Minor: Business Administration

Aditi Chandrashekhar Thota
Minor: Design

Dingkun Wang
Minor: Music

Yirui Wang
Minor: Design

Yan Yan
Minor: Media Design
Minor: Physical Computing

Victoria E. Yong
Minor: Architecture History
Minor: Intelligent Environments

Henry Yoon

MASTER OF ADVANCED ARCHITECTURAL DESIGN

Advanced Architectural Design
Stephanie Smid
Hang Wang

MASTER OF ARCHITECTURE

Architecture

Mariana Alberola Rezza
Chaz Barry
Nikhita Bhagwat
Jacob Clare
Maddi Johnson
Yash Khemka
Anthony Kosec
Bridgette Mary Mekkelsen
Liale Nijem
Cassidy Rush
David P. Sochoza III
Gautam Thakkar
Bryan Hamilton Trew
Jay Tyan
William Ulmer
Yingyang Zhou
COLLEGE DEGREE LISTINGS

MASTER OF SCIENCE

Building Performance and Diagnostics
- Phillip Kuehne
- Jing Yang
- Lili Yu
- Shihaoy Zhang

Computational Design
- Özgüç Bertuğ Çapunaman
- Wei-Wei Chi
- Ian Friedman
- Anna Henson
- Runchang Kang
- Zheng Luo
- Jinmo Rhee
- Humphrey Yang
- Zhuoni Yang

Sustainable Design
- Miranda C. Ford
- Xinxin Hu *
- Roshni Krishnan *
- Harshavardhan Vinjam *

MASTER OF TANGIBLE INTERACTION DESIGN

Tangible Interaction Design
- Claire S. Hentschker *

MASTER OF URBAN DESIGN

Urban Design
- Jianxiao Ge
- Chase Kea
- Rebecca Lefkowitz
- Sai Prateek Narayan Ramachandran
- Deepanshi Sheth
- Suhan Das Shrestha
- Chi Zhang

DOCTOR OF PHILOSOPHY

- Nizar S. Eldaher
  Green Stormwater Infrastructure Strategy Generation and Assessment Tool for Site Scale and Urban Planning
  Advisor(s): Jared L. Cohon, Erica Cochran Hameen, Chris T. Hendrickson

ART

BACHELOR OF FINE ARTS

Art
- Xavier J. Apostol
  Minor: Media Design
- Shannon A. Case
  Minor: Human-Computer Interaction
- Ashley Chan
  Minor: Media Design
- Andrew Chang
  Minor: Game Design
- Katrina Chaudoin
  Minor: Animation and Special Effects
- Kelli R. Clark **
- Faye-Belle Couvrette **
- Ariana C. Daly
- October Lane Donohue
  Minor: Gender Studies
  Minor: Photography
- Emily E. Giedzinski **
- Max E. Gonzales *
- Kianna Briel Gonzalez
- Mariah Stewart Hill
- Hanna Kang
  Additional Major: Human-Computer Interaction
- Adela A. Kapuścinska
  Minor: Game Design
- Soyun Kim
- Isadora Krsek
  Minor: Human-Computer Interaction
  Minor: Media Design
- Robertus R. Lawantara
- Summer Jade Leavitt *
- Catherine Luo
  Minor: Animation and Special Effects
- Ariana Jhaveri Nathani
  Minor: Human-Computer Interaction
- Rhea Nayyar
  Minor: Media Design
- Brandon M. Ngai
  Minor: Architecture
- Victoriano Reyes
- Gwen E. Sadler **
- Anna L. Schulz
- Grace G. Simmons
  Minor: Creative Writing
- Sofia Miren Syjuco
  Minor: Game Design
- William H. Taylor *
- Aman Tiwari
  Minor: Computer Science
- Jessica Chia-Wen Tsai **
- Gerald Patrick Warhaftig
- Olivia C. Yi

MASTER OF FINE ARTS

Art
- Nicholas J. Crockett
- Shohei Katayama
- Erin M. Mallea
- Joyce L. Poulard

DESIGN

BACHELOR OF DESIGN

Design
- Juan P. Aranda
  Minor: Professional Writing
- Gautam Bose
- Emma Terese Bolt Brennan
- Hea Jin Cha
- Hee Seo Chun
- Dahye Chung
- Heidi S. Chung
- Remy E. Davison
  Minor: Creative Writing
- Aisha G. Dev
- Kailin Dong
  Additional Major: Human-Computer Interaction
- Anna N. Gusman
  Minor: Intelligent Environments
- Conner Q. Harden
- Jenny J. Hu
  Minor: Human-Computer Interaction
- Monica Huang
  Minor: Film and Media Studies
  Minor: Intelligent Environments
- Rufeng Ji
  Additional Major: Human-Computer Interaction
- Faith Kim
  Minor: Art
- JooHee Kim
  Minor: Human-Computer Interaction
- Soonho Kwon
  Minor: Game Design
  Minor: Physical Computing
- Tiffany H. Lai
  Minor: Human-Computer Interaction
- Jeong Wan Lee
- Kyle D. Lee
- Susie Lee
  Minor: Human-Computer Interaction
- Yvette W. Lee
- Shannon W. Lin
  Minor: Business Administration
  Minor: Human-Computer Interaction
- Marisa R. Lu
  Additional Major: Human-Computer Interaction
- Jessica Ka-Man Nip
  Additional Major: Human-Computer Interaction
COLLEGE OF FINE ARTS

BACHELOR OF FINE ARTS

Communication Design
Lydia Chung
Hae Wan Park **

MASTER OF ARTS

Design
Rachel Gray Alexander
Michelle Rose Cedeno
Edwin Samuel Cho
Ming-Chieh Chou
Thomas Conroy Eley IV
Helen Chen Hu
Amrita Khosshoo
Elizabeth Louise Larson
Krystal Tung
Ashley Varrato
Ceda Verbakel
Ekta Verma

MASTER OF DESIGN

Design for Interactions
Zacharia Bachiri
Suzanne Choi
Tzu-Chao Chou
Graeme Buckminster Nelson
Crawford
Scott Cameron Dombkowski
Adrian E. Galvin
Katherine Marie Herzog
Joseph E. Hines
Chen Ni
Laura Helena Rodriguez-Eng
Devika Singh
Mary Tsai
Yin-Jen Wang
Shengzhi Wu

MASTER OF PROFESSIONAL STUDIES

Design for Interactions
Krishna Gautham Bagepelly
Carlie Susan Gulfoile
Tithi Ashishkumar Jasani
Anukriti Kedia
Tilo Julian Krueger

DOCTOR OF PHILOSOPHY

Ahmed Ansari
Decolonising Design Studies: A Cosmological Perspective to Designing Towards the Pluriverse
Advisor(s): Gideon Kossoff

Anne Leslie Burdick
Designing How We May Think: Digital Humanities Research Through Speculative Knowledge Design
Advisor(s): Molly Wright Steenson, Jonathan Chapman, Dan Lockton, Cameron Tonkinwise

Stephen Jon Neely
Soma Literate Design: Re-centering the Interstitiality of Experience
Advisor(s): Jonathan Chapman, Dan Lockton, Cameron Tonkinwise

Katherine Hope Scott
Co-creating Alternative Economic Practices Through Design
Advisor(s): Dan Lockton

DRAMA

BACHELOR OF FINE ARTS

Drama
Sarah Elia Battaglia
Gabrielle Zara Bucci **
Kristina C. Bylancik
Christopher Brian Calder
Minor: Business Administration
Mary Frances Candies
Sophie Chen
Cassandra R. Clark
Connor R. Driscoll
William Ryan Dumas
Diyar Eyuboglu
Claire Elizabeth Farrokh
Carmen Flood
Javier A. Galarza-Garcia
Lillian S. Ganser
Asa P. Gardiner
Julian E. Goldman
Safiya Kaiyaa Harris
William P. Harrison
Zachary Herman
Antonio J. Jeffries
Megan Roisin Jones
Alexandra E. Kaplan
Minor: Media Design
Scott A. Kennedy
Natalia G. Kian
Kameron N. Kierce
Jasmine Monet Lesane
Michelle J. Li
Scott Benjamin MacDonald
Emma G. McIntosh
Minor: Creative Writing
Caroline I. Mixon
Sam A. Mollitoriss
Minor: Photography
John Walker Moosbrugger
Jonathan Eric Norwood
Samuel J. O’Byrne
Tasheem Ramsey Pack
Cassidy A. Pearsall
Jamie Phaneckham
Jacob Bernard Poser
Brenna C. Power
Vanessa M. Ramon
Emma Elizabeth Reichard
Leaf Rickard
Alexander D. Rosati
Roma Victoria Scarano
Lucy M. Scherrer
Annette A. Scheuermann
Minor: Business Administration
Sasha Schwartz
Gena Sims
Kayla Rene Stokes
Joseph Owen Stone
Harry Thornton
Jacob D. Wesson
Jasjit G. Williams-Singh

MASTER OF FINE ARTS

Costume Design
Natalie N. Burton
Gina Marie Cercone
Lindsay A. Tejan
Meng-Han Yeh
Yuja Zhang

Costume Production
Amanda J.V. Roberts

Directing
Philip Wesley Gates
Rachel Gita Karp

Dramatic Writing
Sowmya Ashokkumar
Elizabeth Baker
Daniel Burns
Lauren D’Errico
Nicole Zimmerer
Lighting Design
Alex Gibson

Production Technology and Management
Thomas W. Strong
Michael Cody Summers Westgaard

Scene Design
William F. Blackmore
Kathryn Fetrow
Adryan Miller-Gorder
Selby Elizabeth Souza
Yijun Yang

Sound Design
Aaron Landgraf
Anthony Stultz

Stage and Production Management
Kyrie Maria Bayles
Madeleine Caldwell Erskine Evans
JinAh Lee

Technical Direction
Kelly Kaye Simons

Video and Media Design
Davey T. Steinman
Syuan-Cheng Sun
Adam J. Thompson

Music

BACHELOR OF FINE ARTS

Music (Composition)
Evan S. Neely
Minor: Conducting
Jordan B. Speranzo
Minor: Conducting

Music Performance (Bagpipe)
Steven G. MacDonald

Music Performance (Bassoon)
Tyler T. Harper

Music Performance (Cello)
Sameer A. Apte

Music Performance (Flute)
Aydan J. Hensley
Minor: Social and Political History

Music Performance (French Horn)
Cooper S. Johnson
Samantha M. Slockbower
Minor: Gender Studies

Music Performance (Harp)
Mia R. Venezia

Music Performance (Oboe)
Christian Bernard
Brooke B. King **
Minor: Music Education

Music Performance (Percussion)
Gabriella L. Caminos
Minor: Drama
Eric M. Stoss
Minor: Computer Science

Music Performance (Piano)
Derek Hamersly

Music Performance (Tuba)
Michael J. Fleming
Jacob W. Fulkerson **
Minor: Music Technology
Andrew J. Hook **
Minor: Conducting
Minor: Music Education
Minor: Music Theory

Music Performance (Viola)
Veronica Janet Lopez

Music Performance (Violin)
Kyoko Inagawa

Music Performance (Voice)
Alexandra E. Aks
Sarah Florence Barker
Minor: Creative Writing
Daniel A. Brennan
Minor: Music Technology
Minor: Sound Design
Sophia Jane Burnham-Lemaire
D. Avery Devine
Emily M. Gallagher
Caleb S. Glickman
Minor: Conducting
Russell H. Holbert *
Colleen McGovern
Robert A. Raso
Minor: Business Administration
Sydney J. Roslin

Joseph J. Sandler
Brielle M. Stovall
Mark Tamvakis
Jacqueline Anne Tardanico *

BACHELOR OF SCIENCE

Music and Technology
Eugene Yuqing Li
Ken Preiser
Minor: Computer Science

MASTER OF MUSIC

Composition
Ramin Akhavijou
Kyle Barnes
Jonathan Cavell
Ziyu Wang

Music Education
Jingyan Han
Jingyi Hong **
Qinyu Xiong
Jiying Zhang

Performance (Bassoon)
Elizabeth Mae Devonshire

Performance (Clarinet)
Alexander Athitakis
Julian Andres Bohorquez Triana
Tony Mai **
Joseph Mansfield
Joseph Miller
Andrew Muller
Zackary Neville

Performance (Double Bass)
Cody Roseboom *
Mark Stroud
Hiroki Yuasa

Performance (Euphonium)
Abigail Lannan

Performance (Flute)
Phoebe Grace Robertson

Performance (Oboe)
Evan Tegley

Performance (Percussion)
Matthew Charles Altomare *
Justine Matthew Gingrich
Performance (Piano)
Alejo Andres **
Yue Hao
Du Hui

Performance (Saxophone)
Benjamin Morris

Performance (Trombone)
Dustin Grimes
Kevin Lin
Dallas Arlo Long
Hannah Aleka Lorber *

Performance (Trumpet)
Griffith Bernardon Gentilcore
Justin Kohan
Zachary Marino

Performance (Tuba)
Eric William Black
Brian Kelley

Performance (Viola)
Rizwan Jagani
Angela-Maureen Nagem

Performance (Violin)
Victor Avila Luvsangenden
Xiang Fang
Yalyen Savignon
Shuang Yang

Performance (Voice)
Vincent Angelo
Daniel King **
William Ottow
Ivan Plazačić
Alexander James Taylor
Taylor Troyer

MASTER OF SCIENCE

Music and Technology
Zheng Jiang
Steven Lewis Krenn
Anirudh Mani
Ziyun Peng
Nicholas Pourazima *
Mingyuan Yu **
Yixuan Zhang **

STUDENT-DEFINED MAJORS

BACHELOR OF ARTS

Dynamic Media
Roman J. Baiocco

Experimental Digital Media and Cognitive Studies
Adrienne M. Cassel **

Interactive Art and Technology
◊ Tatyana Mustakos

Interactive Digital Media
Alexander B. Woskob

Sound Design & Production
◆ Joseph Santillo
Minor: Game Design
Dietrich College of Humanities and Social Sciences

**DEAN OF THE COLLEGE**
Richard Scheines

**DEAN OF CARNEGIE MELLON UNIVERSITY IN QATAR**
Michael A. Trick

**CENTER FOR THE NEURAL BASIS OF COGNITION**
Barbara Shinn-Cunningham, Director of CMNI and Co-Director of CNBC

**ECONOMICS**
Christopher Sleet, Head of the Program

**ENGLISH**
Andreea Deciu Ritivoi, Head of the Department

**HISTORY**
Donna Harsch, Head of the Department

**INFORMATION SYSTEMS**
Joseph S. Mertz Jr., Interim Director of the Program

**CENTER FOR THE NEURAL BASIS OF COGNITION**

**DOCTOR OF PHILOSOPHY**
Yuanning Li **
Neural Dynamics And Interactions in the Human Ventral Visual Pathway
Advisor(s): Avniel Ghuman, Max G’Sell

**DIETRICH COLLEGE INTERDISCIPLINARY**

**BACHELOR OF SCIENCE**

**Information Systems**
Amer Javed Ahmad
Sufia Akhter
Reem Abdulrahman Al-Emadi
Minor: Arabic Studies
Abdulaziz Abdulhameed Al-Haddad **
Amna Abdulla Ali
Minor: History
Wadha Mohamed A.M. Al Jassim **
Mohammed Yaser H.B. Al-Khuzaei **
Minor: History
Noof Eisa Al-Kuwari
Maryam Abdulla Al-Maadeed
Minor: History

Yahya Al-Makadma
Maha Hamad Al-Marri
Minor: Business Administration
Aisha Ali Nasser A. Al-Misnad
Minor: Business Administration
Al-Dana Ahmed Al-Mohannadi
Minor: Graphic Design
(Student-Defined Minor)
Minor: History
Reem Hamad Al-Mohannadi *
Dana Abdulmajeed Al-Sheeb
Minor: Arabic Studies
Aldana Mohammed Al-Sulaiti
Minor: History
Nicole N. Ang
Additional Major: Statistics and Machine Learning
Obed Appiah-Agyeman
Additional Major: Human-Computer Interaction
Alex Bainbridge **
Minor: Computer Science
Philip Baker
Sydney R. Bauer
Minor: Animation and Special Effects
Shubhangi Bhotika
Minor: Computer Science
Minor: Machine Learning
Karan S. Bokil **
Evan A. Byrd
Chih-Sen Chang **

**INSTITUTE FOR POLITICS AND STRATEGY**
Kiron K. Skinner, Director of the Institute

**MODERN LANGUAGES**
Susan Polansky, Head of the Department

**PHILOSOPHY**
David Danks, Head of the Department

**PSYCHOLOGY**
Michael Tarr, Head of the Department

**SOCIAL AND DECISION SCIENCES**
Linda Babcock, Head of the Department

**STATISTICS AND DATA SCIENCE**
Christopher Genovese, Head of the Department

**Christie Chang**
Minor: Engineering Studies
Minor: Human-Computer Interaction

**Justin Y. Chang**
Additional Major: Statistics and Machine Learning

**Tiffany H. Chen**
Additional Major: Human-Computer Interaction

**Winston P. Chu**

**Kenneth I. Cohen**
Bernard E. Decelian *

**Tian Dong**
Additional Major: Human-Computer Interaction
Minor: Business Administration
Minor: Engineering Studies

**Walter B. Donnellan**

**Randi D. Epouhe**

**Devin B. Fan**
Additional Major: Computer Science

**Juliann B. Fields**
Minor: Game Design
Minor: Human-Computer Interaction

**John Foley**
Additional Major: Statistics and Machine Learning

**Eishaank Gakhar**

**Graciela Garcia**
Minor: Business Administration
Minor: Innovation and Entrepreneurship
Muhammad Ibrahim Ghous
Minor: History
Warren Glasner
Additional Major: Human-Computer Interaction
Minor: Physical Computing
Ameeshi Goel
Minor: Business Administration
Minor: Human-Computer Interaction
Pavan K. Gollapalli
Karan N. Gugle
Arnav Gupta **
Minor: Human-Computer Interaction
Brandon Hong
Xiaorui (Amber) Hu
Additional Major: Business Administration
Joshua Z. Huang
Minor: Business Administration
Xiao Huang
Additional Major: Computer Science
Dylan C. Hyun
Additional Major: Statistics
Minor: Human-Computer Interaction
Irham Irshad Baqri
Arnav Jain **
Minor: Business Administration
Minor: Economics
Youce Ji
Additional Major: Statistics
and Machine Learning
Minor: Computational Finance
Siting Jin **
Additional Major: Human-Computer Interaction
Minor: Computer Science
Roman A. Kaufman
Minor: Computer Science
Andrew Kim
Additional Major: Human-Computer Interaction
Lee Hyun Kim
Additional Major: Human-Computer Interaction
Devansh Kukreja
Additional Major: Computer Science
Isha R. Laad
Minor: Business Administration
Alec Hunter Lam
Minor: Computer Science
Inhyuk Lee
Minor: Computer Science
Frank Liao
Minor: Human-Computer Interaction
Amy Diane Lin
Additional Major: Human-Computer Interaction
Minor: Business Administration
Manuel F. Lopez
Additional Major: Chinese Studies
Yingjing Lu
Minor: Computational Finance
Julia J. Luo
Additional Major: Human-Computer Interaction
Minor: Design
Fahim Mahdi
Hassan Nasser Marafih
Rachel Claire Marella
Minor: Psychology
Fletcher R. Marsh
Minor: Computer Science
Penelope S. McKeefry
Minor: Business Administration
Danish Memon
Minor: Psychology
Hera Miao
Minor: Business Administration
Minor: Media Design
Svayam Mishra *
Fareeduddin Mohammed **
Bisma Munawar
Minor: Business Administration
Hasan Naveed
Minor: Business Administration
Minor: Professional Writing
Alexander T. Nelson
Minor: Engineering Studies
Ashvin V. Niruttan **
Minor: Economics
Stephanie Pang
Sang Hyun Park
Additional Major: Human-Computer Interaction
Katharine Amanda Phelps
Minor: Business Administration
Emily Porat
Minor: Human-Computer Interaction
Umair Waheed Qazi **
Mosammat Samiha Sadeka
Minor: Computer Science
Minor: Mathematical Sciences
Dylan Schwartz
Minor: Business Administration
Ritika Srivastava
Aathreya Thuppul **
Minor: Business Administration
Sarah S. Wang
Minor: Game Design
Jonathan R. Wihl
Minnie Wu
Minor: Business Administration
Minor: Human-Computer Interaction
Minor: Music
Linda Xia
Additional Major: Human-Computer Interaction
George Yao
Minor: Computer Science
Alina Yu
Minor: Human-Computer Interaction
Masooma Zehra
Minor: Psychology
Shirley Zhou
Minor: Business Administration
Minor: Human-Computer Interaction
Ruiqi Zhu
Additional Major: Human-Computer Interaction
Minor: Computer Science

ECONOMICS

BACHELOR OF ARTS

Economics
Asim K. Atkinson
Katherine A. Boyle
Minor: Photography
Emma T. Frenchu
Seth E. Henry
Minor: Innovation and Entrepreneurship
Minor: International Relations and Politics
Hannah Oluwamayowa Osinowo
Minor: Business Administration
Daniela Salazar De Luna
Additional Major: Hispanic Studies

BACHELOR OF SCIENCE

Economics
Domenico Octavio Barbieri Giraldo **
Alexander Bendyk
Additional Major: International Relations and Politics
Amelia Saner Gilson
Minor: Business Administration
Minor: Business Administration
Minor: Chinese Studies
Minor: Business Administration
Minor: Business Administration
Minor: Policy and Management
Gordon A. Wissinger
Minor: Biomedical Engineering
Minor: Business Administration
Megan Yelsangikar
Minor: Business Administration

Economics and Mathematical Sciences
Noopura Herle **

ENGLISH

BACHELOR OF ARTS

Creative Writing
Jonathan M. Dinerman **
Emma J. Flickinger
Additional Major: Professional Writing
Additional Major: Statistics
Julie N. Heming
Additional Major: Professional Writing
Sydney J. Roslin
COLLEGE DEGREE LISTINGS

MASTER OF ARTS

Literary and Cultural Studies
- McKenna Demek
- Daniel J. Evans
- Chanelle Greene
- Emily Motin
- Lisa Thanh Pham
- Mary Margaret Ryan
- Luke Wade Thompson
- Katherine S. Tucker *

Professional Writing
- Sarah Elizabeth Bender
- Katherine Leigh Eckenwiler **
- William Jay Goldby **
- Allison Hodsdon
- Cody James Januszko **
- Jessica E. Keast
- Alexis Mae Morrell **
- Emily A. Nagin
- Ann Elizabeth Rucker **
- Ricardo Wiesner **
- Jixi Wu **

Rhetoric
- Lea Subashini Allirajah
- Pamela Batzel
- Julia Anne Bennett
- John Paul Capresco II
- Margaret Laird
- Elisabeth Anne Loveland
- Aaron Thomas Schmelzer
- Brian Allen Shouse
- Colleen Dian Storm
- Amy Rebecca Thompson
- Laine Elyse Weatherford

HISTORY

BACHELOR OF ARTS

Global Studies
- Sarah M. Boyle
  Minor: French and Francophone Studies
- Margaret Sophia Mertz
  Additional Major: Creative Writing
  Minor: Animation and Special Effects
  Minor: Film and Media Studies
- Vera J. Schulz
  Minor: Innovation and Entrepreneurship
  Minor: Intelligent Environments
- Diana Y. Yuh

Social and Political History
- Maria A. Barr
- Luis Miguel Espinosa-Da Silva
- Michael William Newman
  Minor: Sociology

DOCTOR OF PHILOSOPHY

David S. Busch
The Civic Revolution on Campus: Student Activism and the Politics of Service Learning
Advisor(s): Nico Slate

Susan C.I. Grunewald
German Prisoners of War in the Soviet Union: Life, Law, Memory, 1941-1956
Advisor(s): Wendy Goldman

Mark Thomas Hauser
All the Comforts of Hell: Doughboys and American Mass Culture in the First World War
Advisor(s): Scott Sandage

Clayton Vaughn-Roberson
Fascism with a Jim Crow Face: The National Negro Congress and the Global Popular Front
Advisor(s): Nico Slate

Dawn Michele Winters **
"The Ladies Are Coming!": A New History of Antebellum Temperance, Women's Rights, and Political Activism
Advisor(s): Lisa Tetrault

INSTITUTE FOR POLITICS

AND STRATEGY

BACHELOR OF SCIENCE

International Relations and Politics
- Julia Lynn Adams
  Minor: Policy and Management
- John A. Ciaccio
- Philip J. DeCicco
  Minor: Arabic Studies
  Minor: Decision Science
- Daniel John DeLuca
  Additional Major: Decision Science
- Jure C. Erlic
  Additional Major: Social and Political History

BACHELOR OF SCIENCE

Technical Writing and Communication
- Vidya Palepu
  Additional Major: Creative Writing
  Minor: Film and Media Studies
- Sydney P. Pujadas
  Minor: Business Administration
  Minor: Sound Design
- Aisha A. Rashid
  Minor: Biomedical Engineering
- James F. Wheaton

Additional Major: Human-Computer Interaction
Minor: Game Design

Additional Major: Game Design

Additional Major: Physics

English

Jacob L. Bentley
Additional Major: Creative Writing
Additional Major: Social and Political History

Stephanie Guzik **
Additional Major: Professional Writing

Ariana Martine Mapua *
Additional Major: Economics

Kevin Nelson **
Minor: Film and Media Studies

Professional Writing

Autumn R. Armega-Finger
Additional Major: Creative Writing
Additional Major: Global Studies

Emily E. Giedzinski **
Autumn Hair
Isabella J. Hong
Minor: Design

Valene K. Mezmin
Additional Major: Physics

Eunju L. Pak
Minor: Cognitive Neuroscience
Minor: Design for Learning

Jill Rae Perkins

Abigail J. Salmon
Additional Major: German Studies
Minor: Linguistics

Levi Soler **
Jessica Chia-Wen Tsai
Cameron Wilkerson
Minor: Hispanic Studies

Valerie Jun-Tsing Yam
Minor: Design for Learning
Minor: Human-Computer Interaction

Bernice Yu
Minor: Design

BACHELOR OF SCIENCE
Antonio R. Freiria
◆ Evan M. Glauberman
  Additional Major: Social and Political History
  Minor: Arabic Studies
Kimberly M. Huang
Minor: Animation and Special Effects
Minor: Game Design
Adedamola T. Orimolade
Minor: Creative Writing
◆ Guthrie F. Scrimgeour
  Minor: Creative Writing
Sophia Elizabeth Suarez
Additional Major: French and Francophone Studies
Minor: Art
Minor: Social and Political History
Sahana R. Thirumazhusai
Additional Major: Social and Political History
Prajay Niraj Tipre *
◆ Lucy Truschel
  Additional Major: Psychology
Casey Wong
Minor: Chemistry

M A S T E R O F S C I E N C E
International Relations and Politics
Ian J. Asenjo
Kellen M. Carleton
Michael C. Gormley
Raaga R. Kalva
Alex S. Lin *
Jacqueline M. Puschmann
Colin Tait

M O D E R N L A N G U A G E S
B A C H E L O R O F A R T S
Japanese Studies
Ren Simms

D O C T O R O F P H I L O S O P H Y
Tianxu Chen
The Contribution of the Morphological Awareness to World-Meaning Inference in L2 Chinese: From Perspectives of Language-Related and Learner-Related Factors
Advisor(s): Keiko Koda
Frank M. Dolce
Expanding Discourse Options in the Foreign Language Classroom: Teaching Turn-Taking Norms to Enhance Interactional Competence in an Advanced Mandarin Class
Advisor(s): Remi Adam van Compernolle
Mamoru Hatakeyama
Relative Contributions of L1 and L2 Resources to Semantic Gap Filling at the Word Level in L2 Japanese Reading: Lexical Inferencing of Two-Character Kanji Compounds
Advisor(s): Keiko Koda
Xiaofei Tang
Digital Game-Based Learning for L2 Chinese Formulaic Expressions
Advisor(s): Remi Adam van Compernolle

P H I L O S O P H Y
B A C H E L O R O F A R T S
Ethics, History and Public Policy
◆ Makenzie L. Donaldson **
  Minor: Politics and Public Policy
◆ Allison M. Guzman
  Minor: Politics and Public Policy
  Minor: Professional Writing
Jelani Muhammad Ali Parrish **
Minor: Business Administration
Jonathan Joseph Angelo Rodrigues **
Minor: Business Administration

Linguistics
Sabrina Clarke
Minor: Film and Media Studies
Amanda Jean Phil
Additional Major: Japanese Studies
Katherine Polhemus
◆ Katherine J. Zhang
  Additional Major: Chinese Studies

Philosophy
◆ Chih Yuan William Chang **
  Additional Major: Ethics, History, and Public Policy

B A C H E L O R O F S C I E N C E
Ethics, History and Public Policy
Amaya Taylor

Logic and Computation
Garrison L. McMullen **
Minor: Sound Design
Gregory L. Trost
Ashley Marie Watt
Minor: Physics

M A S T E R O F A R T S
Philosophy
Amelia von Gemmingen Smith
Alec Walker

M A S T E R O F S C I E N C E
Logic, Computation and Methodology
Maria Alejandra Arciniegas Gomez
Suel Kee Baek
Mario Carniero
Biwei Huang *
Adam Millar

P S Y C H O L O G Y
B A C H E L O R O F A R T S
Psychology
Naomi Ruth Berman **
Additional Major: Linguistics
Minor: Human-Computer Interaction
Ha Min Cho
Additional Major: Business Administration
Lyndzy Deleon *
◆ Jared Jory-Geiger
  Additional Major: Philosophy
◆ Rita Kalar
  Additional Major: Linguistics
  Brielle M. Stovall

B A C H E L O R O F S C I E N C E
Cognitive Science
Peter Boyland
Additional Major: Computer Science
◆ Mingjun Duan
◆ Madeline Bober Gardner
  Additional Major: Human-Computer Interaction
  Minor: Hispanic Studies
◆ Sean D. Kim
◆ Rae Lee Lasko
  Additional Major: Human-Computer Interaction
  Minor: Design
James P. Lekas
◆ Felix C. Liu
  Additional Major: Human-Computer Interaction
◆ Yuling Liu
  Minor: Human-Computer Interaction
Nicole Pinto **
Minor: Human-Computer Interaction
◆ Pranjali Rathi
  Rameez Remsudeen **
  Saloni Saxena
  Minor: Biomedical Engineering
  Yingli Y. Sieh
  Additional Major: Human-Computer Interaction
Emilio Vargas Vite
Minor: Learning Media
<table>
<thead>
<tr>
<th>Name</th>
<th>Minor/Additional Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angela Wang</td>
<td>Learning Media</td>
</tr>
<tr>
<td>Alice Zheng</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Yishan Zhou</td>
<td></td>
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<tr>
<td><strong>Neuroscience</strong></td>
<td></td>
</tr>
<tr>
<td>Tessa E. Allen</td>
<td>Hispanic Studies</td>
</tr>
<tr>
<td>Kaily A. Bruch</td>
<td></td>
</tr>
<tr>
<td>Ji Heon Han</td>
<td>Art</td>
</tr>
<tr>
<td>Monica M. Lee</td>
<td>Creative Writing</td>
</tr>
<tr>
<td>Prachi Mahabaleswarkar</td>
<td>Human-Computer Interaction</td>
</tr>
<tr>
<td>Meera V. Patel</td>
<td>Philosophy</td>
</tr>
<tr>
<td>Marina Selencica</td>
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<td>Alexis A. Willis</td>
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<tr>
<td><strong>Psychology</strong></td>
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<tr>
<td>Alexander Aboagye-Mensah</td>
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<tr>
<td>Jiwon Ban</td>
<td>Hispanic Studies</td>
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<tr>
<td>Smiti S. Chauhan *</td>
<td>Cognitive Neuroscience</td>
</tr>
<tr>
<td>Yoobin Chee</td>
<td>Gender Studies</td>
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<tr>
<td>Amy Y. Chen</td>
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<td>Allison C. Chu</td>
<td></td>
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<tr>
<td>Folasade B. Idera **</td>
<td></td>
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<tr>
<td>Hannah Soyeon Kim</td>
<td>Human-Computer Interaction</td>
</tr>
<tr>
<td>Karen Jiyoung Kim</td>
<td>Media Design</td>
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<tr>
<td>Nahyun Kwon</td>
<td></td>
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<tr>
<td>Daya Lee **</td>
<td>Human-Computer Interaction</td>
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<tr>
<td>John Leigh</td>
<td></td>
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<tr>
<td>Jiemings (Lewis) Li</td>
<td>Cognitive Neuroscience</td>
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<tr>
<td>Katie Y. Lim</td>
<td></td>
</tr>
<tr>
<td>Priscilla A. Medor **</td>
<td>Cognitive Neuroscience</td>
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<tr>
<td>Morgan E. Morrison</td>
<td>Music</td>
</tr>
<tr>
<td>Caroline M. Orrico</td>
<td></td>
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<tr>
<td>Holly Haeun Park</td>
<td>Human-Computer Interaction</td>
</tr>
<tr>
<td>Jordan Romah</td>
<td>Creative Writing</td>
</tr>
<tr>
<td>Isabella R. Starvaggi</td>
<td>Additional Major: Statistics</td>
</tr>
<tr>
<td>Thomas Serban Von Davier</td>
<td>Human-Computer Interaction</td>
</tr>
<tr>
<td>Zhongmin Xie</td>
<td>Additional Major: Human-Computer Interaction</td>
</tr>
<tr>
<td><strong>MASTER OF SCIENCE</strong></td>
<td></td>
</tr>
<tr>
<td>Elliot Grayson Collins</td>
<td>Neural and Representational Origins of Visual Expertise</td>
</tr>
<tr>
<td>Kevin Jarbo *</td>
<td>A Corticostriatal Mechanism for Integrating Subjective Value into Processes</td>
</tr>
<tr>
<td>Katilyn J. Mascellii *</td>
<td>Perceptions of Black and White Men: Explanations of and Betting on Success</td>
</tr>
<tr>
<td>Casey L. Roark</td>
<td>Category Learning is Constrained by Training Context and Prior Experience</td>
</tr>
<tr>
<td>Juliet Shafto</td>
<td>Visual Perception of Shape-Contour Type Type</td>
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<tr>
<td><strong>SOCIAL &amp; DECISION SCIENCES</strong></td>
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<tr>
<td>Zhengrui Cheng</td>
<td>Economics</td>
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<tr>
<td>Heather N. Graci</td>
<td>Additional Degree: Psychology</td>
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<tr>
<td>Alex Taro Miller</td>
<td>Business Administration</td>
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<tr>
<td><strong>BACHELOR OF ARTS</strong></td>
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<tr>
<td>Behavioral Economics, Policy and Organizations</td>
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<tr>
<td>John Thomas Shaban Jr. **</td>
<td>Hispanic Studies</td>
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<tr>
<td>Margaret Claire Reager</td>
<td>International Relations and Politics</td>
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<tr>
<td>Crystal D. Song</td>
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<tr>
<td>Arielle W. Spikes</td>
<td>Policy and Management</td>
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<tr>
<td>Sinori Iris Stegman *</td>
<td>Additional Major: Policy and Management</td>
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<td><strong>BACHELOR OF SCIENCE</strong></td>
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<tr>
<td>Jennifer Baik</td>
<td>Engineering Studies</td>
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<td>Lula E. Beresford-Banker *</td>
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<tr>
<td>Jessica Chang</td>
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<td>Jungin Choi</td>
<td>Additional Major: Statistics</td>
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<td>Christine Chung</td>
<td>Business Administration</td>
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<tr>
<td><strong>DOCTOR OF PHILOSOPHY</strong></td>
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<tr>
<td>Elliot Grayson Collins</td>
<td>NEURAL AND REPRESENTATIONAL ORIGINS OF VISUAL EXPERTISE</td>
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<td>Kevin Jarbo *</td>
<td>A CORTICOSTRIATAL MECHANISM FOR INTEGRATING SUBJECTIVE VALUE INTO PROCESSES</td>
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<tr>
<td>Katilyn J. Mascellii *</td>
<td>PERCEPTIONS OF BLACK AND WHITE MEN: EXPLANATIONS OF AND BETTING ON SUCCESS</td>
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<tr>
<td>Casey L. Roark</td>
<td>CATEGORY LEARNING IS CONSTRAINED BY TRAINING CONTEXT AND PRIOR EXPERIENCE</td>
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<tr>
<td>Juliet Shafto</td>
<td>VISUAL PERCEPTION OF SHAPE-CONTOUR TYPE TYPED</td>
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<td><strong>ADDITIONAL MAJOR</strong></td>
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<tr>
<td>Additional Major: Human-Computer Interaction</td>
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<td>Additional Major: Ethics</td>
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<td>Additional Major: History, and Public Policy</td>
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<td>Additional Major: Russian Studies</td>
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<td>Additional Major: Politics and Public Policy</td>
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<tr>
<td>Additional Major: Statistics</td>
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</tbody>
</table>
Jessica Zou Wu  
Vivian G. Yan  
Additional Major: Behavioral Economics, Policy, and Organizations

**Policy and Management**  
Nicholas G. Chmielenski *  
Minor: Business Administration  
Minor: Social and Political History  
◆ Sonia Teresa de los Reyes **  
◆ William Lane Griswold Dively *  
Minor: Politics and Public Policy  
Connor M. Hayes  
Minor: Architecture  
Julie Kim  
Additional Major: Statistics  
Jasper Wang **  
◆ Michael Zhu  
Minor: Business Administration

**MASTER OF SCIENCE**

**Behavioral Decision Research**  
Christina Marie Boyce-Jacino  
Erin Jessica Carbone  
Yana Litovsky  
Eric Powers Silver  
Joachim H. Talloen **  
Zachary Daniel Wojtowicz

**Psychology and Behavioral Decision Research**  
Keela Thomson

**Social and Decision Sciences**  
Sabina Sloman

**DOCTOR OF PHILOSOPHY**  
Lynn Conell-Price *  
The Behavioral Economics of Undersaving: Evidence from Field Experiments on Employee 401(k) Enrollment and Savings Decisions  
Advisor(s): Saurabh Bhargava  
David Hagmann **  
The Policy Consequences of Information: Three Essays on Being (Un)Informed  
Advisor(s): George Loewenstein  
Kelly A. Matula **  
Information Relevance for Informed Consent to Clinical Trials: Patients, Advisors, and Clinicians  
Advisor(s): Baruch Fischhoff

**STATISTICS AND DATA SCIENCE**

**BACHELOR OF SCIENCE**

**Economics and Statistics**  
André M. Aquije-Flores  
◆ Samuel R. Bolig **  
Minor: Business Administration  
◆ Allysa Y. Dong **  
◆ Zeyan Du  
Charles J. Gauthey  
Tanay Godara  
Minor: Business Administration  
Melody Han  
Minor: Machine Learning  
Brandon Hao **  
Additional Major: Business Administration  
Rahul G. Iyer  
Minor: Global Systems and Management  
Long Jiang **  
Terry Kim  
Minor: Business Administration  
Kaushik Murali  
Minor: Computer Science  
Julian Gabriel Nelson  
Minor: Creative Writing  
William R. Shancey Jr.  
◆ Jia Shi  
Minor: German Studies  
Adam Tucker  
Deepak Vanjani  
Minor: Psychology  
Andrew F. Wissinger  
Additional Major: Business Administration  
Jordan H. Wong **  
Minor: Chinese Studies  
Chong Xu

**Statistics**  
David A. Azagury  
Minor: Business Administration  
◆ Yuan Bing  
Minor: Business Administration  
Lawrence Chen  
Minor: Business Administration  
Kushal Dave  
Minor: Biomedical Engineering  
Mary D. Garrett  
Minor: International Relations and Politics  
Zachary P. Goldstein  
◆ Sara N. Jahanian  
Zoeanne Juang **  
Donghun Kang  
Jinhee Lee  
Minor: Game Design  
Minami Alice Makino  
Reed H. Marques  
Alexander A. Messam  
Minor: Game Design  
Minor: Mathematical Sciences

Antara Mondal **  
Minor: Business Administration  
Krishna S. Rao  
Ina R. Rastegar  
Additional Major: French and Francophone Studies  
Sean P. Reidy  
Mary M. Safy  
Additional Major: Human-Computer Interaction  
Minor: Design  
Rohini Sinha **  
Minor: Business Administration  
Gordon Y. Wang  
◆ David Samuel White  
Minor: Business Administration  
Minor: Philosophy  
Catherine Xu  
Yijia Zhang

**Statistics**  
( Mathematical Sciences Track )  
Brandon S. Cobb  
Additional Major: Mathematical Sciences  
Minor: Computer Science

**Statistics and Machine Learning**  
Adin Adler  
Stephanie Z. Bao **  
Additional Major: Human-Computer Interaction  
Emily Yi-Ann Chen  
Minor: Economics  
Kayu Choy  
John L. Curcio  
Minor: Computer Science  
Minor: Mathematical Sciences  
Celine S. Delaunay  
Additional Major: Creative Writing  
◆ Malaika Handa **  
Karim Helmy  
Minor: Computational Biology  
Jeffrey M. Ho  
Additional Major: Computer Science  
Weng Shian Ho  
Christopher James Hwang  
Minor: Music Technology  
Zhenghan Jin  
Minor: Neural Computation  
Inez Khan  
Minor: International Relations and Politics  
Minor: Physics  
Francis Robert August Kovacs  
Lubhaan Kumar  
◆ Eun Kyung Kwon  
Additional Major: Cognitive Science  
Minor: Computer Science  
Harrison G. Landis  
Daniel Lee **  
Sarah Danielle Mallepalle **  
Christian Alexander Manaog  
Minor: Media Design
COLLEGE DEGREE LISTINGS

Amanda Monteavaro
Minor: Neuroscience

Rohan D. Nagalkar **
Additional Major: Business Administration

Anirudh A. Narain **
Ataumanbayraktaroglu

Mason B. Paccione
Minor: Economics
Minor: Neural Computation

Stephanie Pang
Kabir A. Parekh
Jake L. Parker

Minor: Computer Science

Akash R. Patwal
Minor: Computer Science

Tejas Jay Prakash

Shreyu Punya **
Minor: Business Administration

Ricardo Elias Roche Sillery

Maria A. Rodriguez De La Cruz

Naveen W. Shankar
Additional Major: Decision Science

George Ion Stoica

Tianqi Tang
Minor: Computational Finance

Elliott Toy
Minor: Business Administration

Kendrick H. Tse
Minor: Human-Computer Interaction

Chenxi Wang
Minor: Decision Science

Eric Wang
Minor: Economics

Yu Wu
Minor: Economics

Ziniu Wu
Edgar S. Xi
Grant Y. Xu

James Yan
Minor: Human-Computer Interaction

Theo Yanneakis
Minor: Computer Science

Seungyeon Yoo
Minor: Economics

Reed R. Zhang
Yufan Zhang
Minor: Computer Science

MASTER OF STATISTICAL PRACTICE

Graham Arthur
Ji Eun Cha
Nat M. DeFries
Adrian Del Bosque
Matthew Forte
Ruiyang Gan
Daicheng Gao
Steve Sangyol Han
Wren Hemmel
Ansh Hirani
Yingzhong Hu
Sung Jin Hwang
Yudi Jin
Jun Hee Kim
Terence Jin Wook Kwak
Soyoung Lee
Yifan Leng
Divyaree Madisetty
Egan H. McClave
Christian Rodriguez
Sarah Tanjung
Paige A. Thompson
Walter L. Thornton
Aijin Wang
Huige Wang
Peter Wu
Zhaoyu Zhang
Zhuoya Zhang
Ziruo Zhang

DOCTOR OF PHILOSOPHY

Philipp Lukas Gregor Burckhardt
Building the Data Science Laboratory: A Web-Based Framework for Modern Statistics
Advisor(s): Alexandra Chouldechova, Christopher Genovese, Rebecca Nugent, Rema Padman, Howard Sellman

Sangwon Hyun **
Post-Selection Inference for Changepoint Detection and Its Scientific Application
Advisor(s): Max G’Sell, Alessandro Rinaldo, Kathryn Roeder, Ryan Tibshirani, Larry A. Wasserman

Jisu Kim **
Statistical Inference for Geometric Data
Advisor(s): Alessandro Rinaldo, Larry A. Wasserman

Fuchen Liu
Dynamic Network and the Developing Brain: Smoothing and Change Point Detection
Advisor(s): David Choi, Rob Kass, Jing Lei, Kathryn Roeder, Cosma Shalizi

Robert S. Lunde **
Bootstrap and Sample Splitting Under Weak Dependence
Advisor(s): Alessandro Rinaldo, Cosma Shalizi, Valerie Ventura

Francesca Matano
Model Selection for Inverse Estimation in Linear Regression, with Application to Neuroscience
Advisor(s): Sivaraman Balakrishnan, Steve Chase, Rob Kass, Cosma Shalizi, Valerie Ventura

Taylor Gene Pospisil
Conditional Density Estimation for Regression and Likelihood-Free Inference
Advisor(s): Ann Lee, Peter Freeman, Chad Schafer

Alexander Edward Reinhart *
Point Process Modeling with Spatiotemporal Covariates for Predicting Crime
Advisor(s): William F. Eddy, Wilpen L. Gorr, Joel Greenhouse, John Lehoczky, Cosma Shalizi

Lee Fredric Richardson
The Sliding Window Discrete Fourier Transform
Advisor(s): Joseph Kadane, Barnabas Poczos, Cosma Shalizi

Michael H. Spece Ibanez **
Competitive Analysis for Machine Learning and Data Science
Advisor(s): Joseph Kadane, Barnabas Poczos, Cosma Shalizi}

Daren Wang *
Topics in High Dimensional Statistics
Advisor(s): Sivaraman Balakrishnan, Christopher Genovese, Alessandro Rinaldo, Ryan Tibshirani, Larry A. Wasserman
Heinz College of Information Systems and Public Policy

DEAN OF THE COLLEGE
Ramayya Krishnan

SCHOOL OF INFORMATION SYSTEMS AND MANAGEMENT
Andrew Wasser, Associate Dean

SCHOOL OF PUBLIC POLICY AND MANAGEMENT
Jacqueline Speedy, Associate Dean

INFORMATION SYSTEMS AND MANAGEMENT

MASTER OF SCIENCE

Information Security Policy and Management
- Ivan Matthew Alvarado
- Lila Danielle Blum
- Ama Konama Boateng
- Jessica Taylor Brewer
- Mark James Dandrea
- John Earl Dorben
- Vasavi Hejja
- Chelsea Hortense Hermond
- Leo Ho-Tin Ip
- Minseok Kim
- Bradley Justin Levine
- Jennifer Ryan Luptak
- Krishna Priyusha Maddipatla
- Marisa Edna-Marie Midler
- Claire Margaret Moynahan
- Kartik Chandra Panda
- Daniel Eduardo Ramirez-Calderon
- Ravneet Singh
- Abhinav Srinivasaraghavan
- Brandon Vih Ta
- Joshua Robert Vasko
- Michaela Ann Webster
- Evan Nicholas Wehr
- Zhuoxue Wu
- He Zhu

MASTER OF INFORMATION SYSTEMS MANAGEMENT

Business Intelligence and Data Analytics
- Monica Annette Anthony **
- Jaagruti Arora **
- Madhumitha Babushankar **
- Amanda Diane Baker
- Alex Jonathan Caico
- Royce Chan
- Ya-Ting Chang **
- Yu Cheng Chang **
- Han Chen **
- Zhexin Chen
- Sathwik Chenna Madhavuni **
- Erica Lauren Collins
- Dylan Michael Connor **
- Shivalik Daga
- Sankalp Sanjeev Devasthali **
- Nikhil Devidas Devnani **
- Anupam Dewan **
- Siena Duplan **
- Ghazal Eftekhari
- Nadine Fares **
- Jose Daniel Fernandez Davila **
- Mridul Singh Gangwar
- Anitha Ghali
- Gaurij Pradeep Hardikar
- Garvit Harisinghani **
- Haneq He **
- Michelle Hsu **
- Amy Huang **
- Baihui Huang **
- Dheeraj Jaiman **
- Meghna Dhiren Jani **
- Zhuhan Jiao
- Aditya Varma Kalidindi **
- Kaung Mon Khin **
- Akanksha Khushboo **
- Manali Jayantkumar Kiledar **
- Shawn Peter Leahy **
- Daniel Louis Lesser
- Qing Li **
- Xiang Li **
- Ying Lin **
- Muyi Liu
- Jinjing Luo **
- Evan Lyle **
- Aysha Muhammad MacHingara
- Aldo Marini Macouzet **
- Shahzeb Mirza **
- Colton M. Mouritsen
- Mehrroz Munawar **
- Soundharya Murali **
- Shruthi Muthukumar **
- Poojitha Nanduri **
- Apoorva Nitsure **
- Phani Krishna K. Pasumarthi
- Rachitha Prabhudev **
- Shounak Purkayastha **
- Yuan Qin **
- Andrew Whitaker Reed **
- Alexander Donald Roberts **
- Sheldon Rodrigues **
- Anand Hanmantrao Sakhare **
- Ebnulnowa Oluwasoyunmi Sanu
- Karunasree Saproo **
- Jonathan Marshall Seppi **
- Yiyi Sha **
- Amrita Sharma **
- Sahib Singh
- Sri Sitarama Tejendra Prabhat
- Turlapati **
- Benjamin John Turner
- Miguel de la Salle Rousseau
- Twahirwa **
- Anubha Varshney **
- Carlos Alberto Velasquez Restrepo
- Jingying Wang **
- Wei-Kung Wang **
- Yiru Wei **
- Chien-Ting Weng
- Sijia Yao **
- Yichun Katie Yao
- Yushu Yao **
- Yingxuan Zhai **
- Jiahao Zhang **
- Jianfu Zhang **
- Shuyi Zheng **
- Ren Zuo **
**Information Systems Management**

- Tushar Advani **
- Anirudh Agarwal **
- Ayushi Agarwal
- Mragan Agarwal
- Sukrit Ajmani **
- Gautham Allur Subramanya **
- Rofin Andonisamy
- Anish Arora **
- Ashish Arora **
- Harsh Baheti
- Sara Zakariya Banten
- Debalina Basu
- Min Yan Beh **
- Michael Daniel Berlet **
- Sowjanya Bhagi
- Divya Bhaskar Rao
- Amol Bhatnagar **
- Pranav Bolar **
- Yuyan Cai
- Asparsh Chandra
- Yi-Chun Chang
- Partha Pratim Chatterjee
- Kshitij Chauhan **
- Anqi Chen
- Jiaxin Chen
- Sharon Chen **
- Shuning Chen
- Yi Chen
- Ying Chen
- Yuyuan Chen
- Zheshi Chen **
- Bhavya Shailesh Chhadva
- Ping-Jou Chiang
- Han-Tse Chiou **
- Jung-Hsuan Chu
- Driti Dagli
- Manali Harsh Damania **
- Xuxin Deng
- Karan Hiren Desai
- Rucha Deshmukh **
- Krishna Sandeep Dharga Rama Gopal
- Junaid Dodhia
- Yiwei Du **
- Zhengping Duan
- Aman Dubey **
- Norikazu Edogawa **
- Chong-Yu Fu **
- Junkai Fu
- Apurva Sadanand Gaikwad
- Aaditya Ganapathy **
- Shianan Gao
- Divyesh Gaur **
- Harshal Mahesh Gogri **
- Ameya Dattatreya Gokhale
- Mingfeng Gong
- Sherry Gu **
- Manmin Angela Guo
- Kunal Kumar Gupta **
- Paritosh Gupta
- Shiuye He **
- Varun Hebbur **
- Dharmika Dayanand Hegde **
- Juan Pablo Hinojosa Gonzalez **
- Sammuel Hobbs
- Mingyi Hu **
- Renhao Hu
- Sihui Hu **
- Xuan Hu
- Junfeng Huang
- Yi-Anne Huang
- Yucheng Huang
- Hassaan Ijaz
- Akshay Yashwant Rai Jain
- Arihant Kumar Jain
- Priyanshi Jain
- Sheena Jain **
- Anshu Jana
- Amala Srinivas Jatar **
- Neethi Jayachandran **
- Shipra Jha **
- Hongcheng Ji
- Minhao Ji
- Wei Ji **
- Jie Jiang
- Xiaokai Jin **
- Raunak Jodhawat
- Harsh Johari **
- Ishu Joshi **
- Shubhra Kabra
- Akash Kakkaragolla Manjunath **
- Aditya Kamatar
- Siddharth Reddy Kandimalla
- Pali Kanungo **
- Vineet Harshad Karkhanis
- Preethi Devi Karthikeyan
- Sharath Kashyap
- Ruchita Dilip Kasliwal
- Laya Kaysi **
- Anand Khanna **
- Minkyung Kim
- Avinash Kona
- Sai Aditya Kothakota **
- Venkat Nikhil Reddy Kowkuntla **
- Kushagra Krishna **
- Roshan Kumar
- Sangam Pravin Kumar **
- Sukesh Kumar **
- Mahesh Kumar Srinivas **
- Guhan Kumaresan **
- Shreya Milind Laad **
- Annapoorni Lakshmi Narayanan
- Tarl Jason Langham **
- Chia Hua Lee **
- Soojin Lee
- Susuk Lee
- Ted Ernest Lee **
- Haoming Li
- Jinyi Li
- Mingyang Li
- Yanchen Li **
- Yingqi Li **
- Jyotsna Lilani
- Swaroop Lingaraj **
- Menglin Liu
- Xin-Pu Liu
- Xueting Liu
- Ying Liu **
- Yuanhan Liu **
- Zhiyang Liu
- Zizhe Liu
- Priyal Rajiv Lodaria **
- Jie Lou
- Yao Lu **
- Yuichi Mada **
- Kien Hui Mak
- Derek Mason
- Edwin William Mellett
- Siddharth Suresh Menon **
- Priyadarshini Mitra **
- Ravi Mittal
- Tania Modi
- Madhukar Mohta
- Qing Mu
- Shantanu Mukherjee **
- Keerthy Muralidharan **
- Rishab Naran **
- Disha Mahesh Nathani **
- Daisy Aatse Betungheyi Nkweteyim
- Oluwatobi Gbemisola Oladiran **
- Katazyno Olszewska **
- Adishree Paliwal
- Zhengyu Pan
- Udisha Pande
- Saurabh Pravin Pathare
- Aditya Shrirang Patil
- Qi Peng
- Sivakorn Potisuntorn
- Yining Qian **
- Xuehan Qiao **
- Xin Qiu **
- Sonali Rajendra **
- Renjini Ramesh
- Sisi Rao **
- Mohit Rikhy
- Adarsh Saboo **
- Shreya Sahay
- Sugandha Sahay
- Aparajita Saboo
- Madhavi Sindhu Sahu **
- Sanchit Saini
Ankit Saluja
Rohan Abhay Sangave
Kinjal Vipul Sanghvi
Mansi Sushil Satam
Syed Mehboob Askari Shah
Amit Sharma **
Disha Sharma **
Shalini Sharma **
Sudhanshu Shekhar
Shihao Shen
Leyang Shi **
Sonika Rajkumar Shriwastav **
Hardit Singh
Prabhjot Singh
Saasaha Singh
Srishi Singh
Sumit Singh
Michael Eric Slauson **
Pratistha Srivastav
Rahul Srivastava
Sushmita Subramani **
Deepak Raj Subramanian
Yitian Sun
Yuqi Sun
Zuwei Sun **
Aditya Suresh
Siyu Tan
Xiaoli Tang **
Shekhar Tanwar
Yalu Tong **
Anurag Tripathy
Zhaoyang Tu **
Tanomi Ujjwal
Swetha Unnava
Swetha Shri Venkateshwaran **
Namratha Vishwanathan
Hongzhe Wang **
Junlin Wang **
Wei Wang
Xiyao Wang
Zexian Wang
Nicholas DeVerle Wells
Chu Wu
Yi-Ju Wu
Yue Wu **
Jingran Xiao
Wenxuan Xu
Yi Xu
Bai Xue **
Baiqi Yan
Jinyi Yang **
Jiyau Yao
Sicong Ye
Zhenhao Ye
Shih-Hao Yeh
Henry Yelin **
Yuzhe Yin
Mingzhi Yu
Jieni Zhang
Juwen Zhang
Weitong Zhang
Wenhan Zhang
Yunyi Zhang
Xinpeng Zheng **
Yiling Zhong **
Junxue Zhu
Yuanzhen Zhu **
Dong Zuo **

MASTER OF SCIENCE

Information Technology (Business Intelligence and Data Analytics)
Stephanie Talsma Bruno
Rafael Buitrago **
Anthony Villavicencio Chestnut
James Benham Gianoglio *
Daniel A. Houli
Yuxiang Hu
Edgar Vladimir Lozano Cabrera **
Krupa Rajen Nagori
Jason Maxwell Popowski **
David Richard Robinson
Libby Schultz *
Georgina Tolgos

Information Technology (Business Intelligence and Data Analytics), Adelaide, Australia
Arjun Arasu *
Fan Feng
Liping Huang
Abhishek Jayachandran
Rama Kanetkar
Jubin Katyal *
Wanghui Li
Zelin Liu
Ziqi Liu
Liqian Ma
Tianyue Ma
Luis Ricardo Nava Pérez
Errick German Rodríguez Alvarez *
Donna Frida Safiera
Kaurik Saxena
Nitesh Kumar Singh
Dongling Xie
Wenjun Zhang

Information Technology (IT Management)
Fernando Campos Sandoval **
Daniel Patrick Passinger
Fritz Aaron Foraker
Arturo Garcia Talavera **
Karl Frerich Gleason **
William Mikell Herrington
Federico Lanzoni **
Christine L. McKnight
Juan Carlos Moreno Arias **
Caleb Luke Muller *
Alejandro Perez **
Lucia Quirroz Roman **
Jaime Moisés Rodríguez Díaz **
Ricardo Roman Jimenez **
Víctor Alonso Salinas Martínez **
Daniel Arturo Santana Calvo **
Joshua Amos Smith
Martin Solis Hernandez **

Information Technology (IT Management), Adelaide, Australia
Md Zaidul Alam
Anshu Anand
Omar Tonatiuh Argüello González *
Jerame Beneros Beloy
Jerry Binas Canale
Freedierick Paulo Claud
Carlos Alberto Curiel Peña *
Ning Pei Ding
Larsa Pranzena Rahila Faby *
Ángel García Pérez *
Joyce Bautista Gatchalian
Mustafa Muhammad Ghazanfar *
Hayun Jung
Vidhi Khare *
Kim Dianne Bedoldo Ligue
Sunit Kamlesh Mehta *
Rolando Navarro
Glen Bullecer Pepito *
Geldof Bumenlag Resuello **
Shem Durst Elijah B. Sandig *
Tianyue Shao *
Xiang Tan
Wen-Chi Tseng *
Jangkyung Yun **
Gang Zeng
Jiyuan Zhou

Information Technology (Information Security and Assurance)
Brie Carranza
Elvis Troy Clemetson
Matthew Eldred Ellis
Carlos Francisco Estevez
Mohanpreet Singh Gujral
Clinton Fielding Kehr
Deonicio Martinez *
Jeffrey Warren McMillen
Nicholas Alexi Midzak *
Pujita Patni *
Benjamin Pollack *
COLLEGE DEGREE LISTINGS

GRADUATED 14-AUG-2018
GRADUATED 19-DEC-2018

Colin Kile Raymond *
Nathaniel Jacob Richmond **
John Randall Rovesti
Matthew Alan Schwieger *
John Eugene Charles Stewart
William Dewitt Tidwell

Information Technology
(Information Systems Management)
Danny Abdow
Kiana Danielle Bassey **
Todd David Bertapelle **
Julianne Early-Meehan **
Todd Theodore Fokken
Bret James Lucka **
Michael Alan Nitoski
Michael Andrew Taylor *
Liviu Vlăd *

Information Technology (Software Design and Management)
Zaid Al-Momen *
Andrew M. Bunker

Information Technology
(Software Engineering)
Keith Buford **
Pual Gregory Fenton

DOCTOR OF PHILOSOPHY

Uttara Madurai Ananthakrishnan *
Managing Content on Digital Platforms
Advisor(s): Beibei Li, Michael D. Smith, Rahul Telang

Aslan Aziz
Digital Signals: How Advertising and Ratings Influence Consumer Choice
Advisor(s): Beibei Li, Hui Li, Michael D. Smith, Rahul Telang

Veronica Marotta *
Essays on the Digital Economy
Advisor(s): Vibhanshu Abhishek, Alessandro Acquisti, Kaifu Zhang

Yingjie Zhang *
User Behavior in Social-Cyber-Physical Systems
Advisor(s): Ramayya Krishnan, Beibei Li, Zhen Qian

Zhe Zhang
Societal and Broader Impacts of IT Phenomena: AI and the Sharing Economy
Advisor(s): Vibhanshu Abhishek, Beibei Li

Health Care Policy and Management
Parul Aggarwal
Emily Lynn Bippus
Paritosh Chandwade **
Michael Joseph Coutinho
Blaine Rose Dinkin
Edgar Paul Herrington IV
Mikaela B. Lewis
Namrata Vinayak Navge
Rachel Regina Ollivierre
Joseph Julian Schermer
Miaoyuan Jessica Zhang
Gabrielle Elise Zinobile

MASTER OF MEDICAL MANAGEMENT

Medical Management
Nicholas Eugene Batson
Brian R. Baxter
Anna Marie Boettcher
Denee Roberts Choice
Jeannette Barbarella Currie
Thea Dalfino
Kathleen F. Eldridge
Jonathan Andrew Goldner
Farah Khan Khalil
Thomas Kim
Doyle Lim
Maher Madhoun
Yasdet Maldonado De La Cruz
Imad M. Melhem
Michael Mineo
Mark Anthony Newell
Fredric V. Price
Ailya Mohamed
Ravi Ramani
Michael Schandorf-Lartey
Krista Marie Lang Schorrock
Anil Singh
Franz Omar Smith
Jeffrey Teller Swett

MASTER OF PUBLIC MANAGEMENT

Public Management
Ahmed Salem Almashjari
Beth Joy Beyer *
Erica Rae Brandon
Anthony F. Capotosto **
Nicholas Winter Chubb
David Robert Debor
Mary Rose Debor
Ashleigh Marie Deemer

Rachel Ann Dolich
Andrea Regina Elcock
John Erick Espino Velásquez
Matthew William Fuller *
David J. Guzikowski *
Hallie Kohler Johnson
Samaria Sari Johnson
Jessica Kadie-Barclay
Christine Marty Kotecki
Yuyun Liang
Thomas E. McConkey Jr. *
Allyce La’Fay Pinchback-Johnson
Ernest Rajakone
Alexandra Christine Rice *
Lorretta Gina Sackey
Wendy Loader Schiller **
Alyson Shaw
Andre Akeem Simon
Hannah Jane Somers **
Emma Strong *
Zhongxin Sun
Katherine Lyons Sutherland
Aster Teclay
Jessie Michael Ulibarri **
Jessica Ann Walker

PUBLIC POLICY AND MANAGEMENT

MASTER OF SCIENCE

Health Care Analytics and Information Technology
Ayushi Dwivedi
Jay Ragesh Shroff

Mirabhakti R. Shukla
Andrew Murphy Simmons

PUBLIC POLICY AND MANAGEMENT

MASTER OF SCIENCE

Health Care Analytics and Information Technology
LaChrista LaShang Douglas  
Erika Leigh Eagan  
Andrew Christopher Edkins  
Clayton Mark Edwards  
Allyson Andrea Fierro  
Sebastian Franco  
Nicole Marie Gans  
Brian Thomas Gillikin **  
Edie Laurel Godwin  
Natasha González Deprez  
Olga Louise Graves  
Jason Min Griess  
Matthew C. Grove *  
Adrienne Elaine Habiger  
Christon Marcus Harris  
Kathryn Leonard Heffernan *  
Paul Gerard Heffernan  
Jose Ignacio Hortal Fontanet  
Wei Huang  
Joon-Buhm Huh  
Maria Lizbeth Ibarra Rodriguez  
Sara Elaine Jackson  
Mehr Asma Javed  
Quyun Jia  
Varun Joshi **  
Rashmeen Kaur  
Jenny Christine Keyt  
Jeremy Alexander Killion  
Maureen Wangchi Kimamo  
Clara Kitongo  
Jana Elizabeth Laks  
Katherine V. Lazarski **  
Katie Lynn LeFevre  
Eugene Leventhal  
Minyin Li  
Xilai Li  
Qianye Lin  
Yasu Lu  
Grace Kathryn Luetmer  
Cong Lyu  
Shivarth Sivagurunathan Maniam  
James Brendan McHugh  
Caitlin McMahon  
Weijia Mi  
David Mitre Becerril  
Krista Marie Mobley **  
Libby Anderson Mucciarone *  
Wilson Mui  
Marisa Alexandria Nowicki  
Yasin Ocal  
Clarissa Tiffany Paz  
Sarah Ann Pesii  
Michael John Peterson IV *  
Cheena Mae Pongase  
Sneha Pradhan  
Meeti Purani  
Emily Christine Rehfus  
Gilbert Felipe Resendez  
Matthew David Rogotzke  
Cheryl Ann Rozinski  
Alex Stuart Sandoval  
Robert Santamaria  
Isaac Aaron Schiffman **  
Ela Šehić  
Temeca Ann Simpson  
Nikki Lyn Smith  
Emily Marie Snoek  
Eduardo Diego Solomon  
Mayo Soma Sonko  
Claire Souchet Jacquillet *  
Travis James Stahl  
Adam Steckel **  
Brien Frederick Webster Stelzer  
Na Su  
Tania Ashley Taloute  
Tiffany Taulton  
Bertrand Olivier Teirlinck  
Alex Samuel Temple  
Tsion Tesfaye **  
Alfredo Trejo III  
Xiaoshu Wang  
Yawen Wang  
Ziwen Wang  
Peijin Wei  
Max Gabriel Weisz  
Erin Ashley Welch **  
Xinlu Yao  
Jessica Young **  
Mingjia Yuan  
Jun Zhang  
Shuonan Zhang  
Xinmei Zheng  
Ziyu Zhou

Public Policy and Management, Adelaide, Australia

Astrofil Hyde Maynopas Alcala  
Michel Pampelon Basister  
Ignacio Maximo Bosch  
Katie Suzanne Bourke  
Alexander Chen  
Anne Tamandani Chivunde  
Crisis Baculpo Cruz  
Norayn Endrinca Dacillo  
Pallave Dasari *  
Carl Dwight Resques Demetria  
Javier Echegaray  
Jessmon Aranda Elvina  
Huang Ge **  
Gayle Robin Grieger *  
Mamta Jaiswal  
Harlene Rose Vicente Mamiit  
Edhen Manzanares  
Hafsa Mariam *  
Sudipta Mitra

Raniel Jude Abapo Pammatmat  
Laskar Rianto  
Lourdes Ana Maria Romero Cipriano *  
Tatsunori Sato  
Yvette Mariano Solas  
Michelle Manag Sta. Romana *  
Marina Liz Swinnen  
Rama Yudo Yudo Wirawan  
Kotaro Yamaguchi  
Shiqi Yan

Public Policy and Management (Data Analytics)

Joohyun Sarah Cho  
Benjamin Hayes  
Ling Hong  
Junming Huang  
Alexander Tobie Irvine  
Tweesha Joshi  
Atsumi Kainosho  
Hibah Khan  
Alton Lu  
Brenda Ivy Mittelbuscher  
Yasuhiro Morimoto  
Hikaru Murase  
Andew Thomas Olson  
David Alan Pinski  
Nikolas Alexander Rebovich  
Nikita Setia  
Karan Shah  
Eric Nathaniel Hyman Shapiro  
Owen Marder Stevenson  
Preetha Swamy  
Haley Magdalene Townsend

DOCTOR OF PHILOSOPHY

Leah Ruth Clark  
Three Essays on Economic Access to Public K-12 Education  
Advisor(s): Dennis Epple, Brian Junker, Lowell Taylor

Byeong Jo Kim  
Implementing Evidence-Based Practice: The Meaning of Evidence Use and Its Consequences  
Advisor(s): Taya R. Cohen, Baruch Fischhoff, Denise M. Rousseau

Rahul Ladhania  
Costs, Care and Causality: Essays in Health Policy and Statistics  
Advisor(s): Amelia M. Haviland, Edward Kennedy

Alexander Martin Loewi **  
The Characteristics and Creation of Bridging Relationships  
Advisor(s): Amelia M. Haviland, Brian Kovak, David Krackhardt

Jacqueline Angela Mauro *  
Nonparametric Estimation of the Effects of Policies to Reduce Recidivism  
Advisor(s): Amelia M. Haviland, Edward Kennedy, Daniel Nagin, Larry A. Wasserman
# COLLEGE DEGREE LISTINGS

## Mellon College of Science

### DEAN OF THE COLLEGE
Rebecca W. Doerge

### DEAN OF CARNEGIE MELLON UNIVERSITY IN QATAR
Michael A. Trick

### BIOLOGICAL SCIENCES
Aaron P. Mitchell, Professor and Head of the Department

### CHEMISTRY
Linda Peteanu, Professor and Head of the Department

## BIOLOGICAL SCIENCES

### BACHELOR OF ARTS

**Biological Sciences**
- Taylor Lee Davis
  - Minor: Art
- Tiffany M. Kakkanatt *
  - Minor: Film and Media Studies
- Jeong Noh Lee
- Su Ji Shin
  - Minor: Biomedical Engineering
- Bryan F. Tiggs **
  - Minor: Biomedical Engineering
  - Minor: Game Design
- Tiffany M. Kakkanatt *
  - Minor: Film and Media Studies
- Jeong Noh Lee
- Su Ji Shin
  - Minor: Biomedical Engineering
- Bryan F. Tiggs **
  - Minor: Biomedical Engineering
  - Minor: Game Design

### BACHELOR OF SCIENCE

**Biological Sciences**
- Fatema Tuz Zohra Abdul Salik
- Albandari Mohammed Al-Khater
- Khalid Amair H A Al-Naemi
- Dina Nayel Al-Tarawneh
- Najlaa Al-Thani
- Sayeda Sakina Amir
- Jeffrey You Beyon Jr.
- Monica S. Cantos
  - Minor: Biomedical Engineering
- Jonathan L. Colarusso
  - Additional Major: Social and Political History
- Reem Abdelati Abdelwahab Mohamed Elasad
- Aisha Abdulrahman Darwish Fakhroo
- Silvia M. Giampapa
  - Minor: Chemistry
  - Minor: French and Francophone Studies
- Sophie A. Halpern
- Christine Idouchi **
  - Additional Major: Computer Science
- Kawthar Alsadat Seyed Aliakbar Jafarian
  - Minor: Arabic Studies
- Jessica Jue **
  - Additional Major: Chinese Studies
- Boris Kobilja **
  - Minor: Biomedical Engineering
- Serena Lee
- Richard J. Lozano
  - Minor: Neuroscience
- Ruhani K. Mumick **
  - Minor: Computational Biology
- Alexander G. Muralles
  - Minor: Computational Biology
- Aya Abed Alnasre Nour
  - Akua Bema Oppong
- Arati Rajeevan
  - Minor: Biomedical Engineering
- Ashley M. Son
  - Minor: Biomedical Engineering
- Siyao Wang
- Hannah K. Weishaeupl
  - Minor: Business Administration
- Kara A. Zaborowsky
  - Additional Major: Creative Writing
- Moussa Zekak
- Lansing Zhang
  - Minor: Hispanic Studies

### Biological Sciences and Psychology

- Sharanya Bhatheja
  - Minor: Business Administration
- Leslie Lien Chen
  - Minor: Biomedical Engineering
- Ariel Hyemin Jeong
- Kiana Leong
- Rebecca Li
  - Mason D. Miles

### Computational Biology

- Siddharth J. Annalsadula
  - Minor: Neuroscience
- Dong Yoon Lee
- Nicole M. Matamala
- Jeffrey You Beyon Jr.
- Monica S. Cantos
  - Minor: Biomedical Engineering
- Jonathan L. Colarusso
  - Additional Major: Psychology
- Cory T. Bird
  - Minor: Environmental and Sustainability Studies
- Huizeeong Chang
- William E. Crouch
  - Additional Major: Psychology
  - Minor: Biomedical Engineering
  - Minor: Chemistry
- Chinehellen Celimmah Eyiba
- Jacqueline Ling Hon
  - Minor: Health Care Policy and Management
- Ankita Jha
- Prerana Katiyar
  - Minor: Chemistry
- Raashmi Krishnasamy
- Miranda Michele Mlincek
  - Brigdet Wambui Njeri
  - Minor: Biomedical Engineering
- Pirapat Max Rerkpattanapipat
  - Minor: Biomedical Engineering
- Aliya Nicole Safran
  - Alexander E. Sugar
  - Oliver S. Terrell
  - Noelle Toong
  - Malcolm-Christopher I. Udeozor
  - Keya C. Varia
  - Minor: Computational Biology
  - Minor: Biomedical Engineering
- Yixin Yuan
  - Minor: Biological Sciences
MASTER OF SCIENCE

**Chemistry**

- **Samantha J. Candalor**
  - Bachelor of Science: Chemistry
  - Master of Science: Chemistry

- **Alicia C. Huggett**
- **Raunaq U. Chamdia**
- **Amna Ahmed**
- **Minkang Shon**

**UNIVERSITY HONORS**

- **Jennifer Leung Kwang**
- **Jason Chulhun Kwak**
- **Amanda Marie Willard**
- **Emily Jean Simon**
- **Ardon Z. Shorr**
- **Stephanie Ann Biedka**
- **Nicholas Audette**
- **Sofia F. Zahn**
- **Sarah Leila Simon**

**DOCTOR OF PHILOSOPHY**

- **Daniel Sherman Ackerman**
  - Fluorescence Technology Development For *In Vivo* Inflammation Sensing, Cell Contact Labeling and Targeted Photoablation
  - Advisor(s): Jonathan W. Jarvik

- **Nicholas Audette**
  - A Thalamocortical Circuit Initiates Experience Dependent Plasticity During Learning
  - Advisor(s): Alison Barth

- **Stephanie Ann Biedka**
  - Nucleolar Stages of 60S Subunit Assembly Involve Complex and Dynamic Changes in Pre-rRNA Structure and Pre Ribosome Protein Composition
  - Advisor(s): John Woolford

- **Katherine Sarah Lagree**
  - Gene Function of the Transcription Factors Mig1, Mig2 and Zif21 in Candida Albicans
  - Advisor(s): Aaron P. Mitchell

- **Yizhu Lin**
  - Secondary Structural Analysis of Human IncRNAs
  - Advisor(s): Charles Joel McManus

- **Amber L. Lucas**
  - Advancements in Proteome Sample Cleanup Using Reversible Click Chemistry
  - Advisor(s): Jonathan Minden

- **Ardon Z. Shorty**
  - Tools to Examine Mechanotransduction
  - Advisor(s): Philip LeDuc, Jonathan Minden

- **Emily Jean Simon**
  - O-Glycosylation of the Ebola Glycoprotein in Loss of Cell Adhesion
  - Advisor(s): Adam Linsteadt

- **Amanda Marie Willard**
  - A Novel Dopamine Deletion Paradigm: Investigation of Progressive Circuit Dysfunction in Parkinson’s Disease
  - Advisor(s): Aryn Gittis

---

**MELLON COLLEGE OF SCIENCE**

**MASTER OF SCIENCE**

**Biological Sciences**

- **Elena V. Shuvaeva**
  - Regulation of i2-Adrenal Receptor Post Endocytic Sorting
  - Advisor(s): Manojkumar A. Pathenveedu

**DOCTOR OF PHILOSOPHY**

- **Daniel Sherman Ackerman**
  - Fluorescence Technology Development For *In Vivo* Inflammation Sensing, Cell Contact Labeling and Targeted Photoablation
  - Advisor(s): Jonathan W. Jarvik

- **Nicholas Audette**
  - A Thalamocortical Circuit Initiates Experience Dependent Plasticity During Learning
  - Advisor(s): Alison Barth

- **Stephanie Ann Biedka**
  - Nucleolar Stages of 60S Subunit Assembly Involve Complex and Dynamic Changes in Pre-rRNA Structure and Pre Ribosome Protein Composition
  - Advisor(s): John Woolford

- **Katherine Sarah Lagree**
  - Gene Function of the Transcription Factors Mig1, Mig2 and Zif21 in Candida Albicans
  - Advisor(s): Aaron P. Mitchell

**BACHELOR OF SCIENCE**

**Chemistry**

- **Joshua B. Somers**
  - Minor: Innovation and Entrepreneurship

- **Sophia F. Zahn**
  - Minor: Biomedical Engineering

**Chemistry/Biological Chemistry Track**

- **Yilin Dong**
  - Minor: Biomedical Engineering

- **Erin W. Kavanagh**
  - Minor: Human-Computer Interaction

- **Sarah Leila Simon**

**DOCTOR OF PHILOSOPHY**

- **Sikandar Abbas**
  - Plasmonically Enhanced Photostability in Organic Fluorophores
  - Advisor(s): Linda Peteanu

- **Anne Arnold**
  - Biologically Inspired Functional Graphenic Materials and Polymers for Tissue Regeneration and Energy Applications
  - Advisor(s): Stefanie Sydlik

- **Yookyung Bae**
  - Supramolecular Structures Based on PNA and Metal Complexes
  - Advisor(s): Catalina Achim

- **Matthew A. Baker**
  - Development and Mechanistic Understanding of Nickel-Catalyzed Suzuki Catalyst Transfer Polymerization
  - Advisor(s): Kevin Noonan

**CHEMISTRY**

- **Amna Ahmed**
  - Minors: Physical Computing and Machine Learning

- **Sofia F. Zahn**
  - Minor: Biomedical Engineering

**BACHELOR OF SCIENCE**

**Chemistry**

- **Joshua B. Somers**
  - Minor: Innovation and Entrepreneurship

- **Sophia F. Zahn**

- **Erin W. Kavanagh**
  - Minor: Human-Computer Interaction

- **Sarah Leila Simon**

**Chemistry**

- **Amna Ahmed**
  - Jacob Flum**
  - Alicia C. Huggett
  - Yogesh Somasundar**
  - Wyatt Robert Swift-Ramirez
  - Megan Van Horn
  - Sofia F. Zahn

- **Haicheng Li**
  - On Developing Cost-Efficient Computational Solutions to Physical Chemistry Problems
  - Advisor(s): David Yaron

- **Qi Li**
  - Tailoring the Atomic Structure, Self-Assembly and Optical Property of Gold Nanoclusters
  - Advisor(s): Bongchao Jin

- **Jiannan Liu**
  - Computational Study of Structures and Dynamics of Ionic Liquids
  - Advisor(s): Hyung Kim

- **Stephanie Nicole Mack**
  - Biochemical Investigation of Lariat Debranching Enzyme and Spliceosomal RNA Through the Use of Backbone Branched RNA
  - Advisor(s): Subha Das

- **Seyedeh Samaneh Mesbahi**
  - Modeling Ionotropic Glutamate Receptors (iGluRs) Structure-Function Relationships
  - Advisor(s): Maria Kurnikova

- **Kedar Marjan Perkins**
  - Synthesis, Characterization and Applications of Polymer-Grafted Lignin Surfactants
  - Advisor(s): Newell Washburn

- **Logan Daniel Plath**
  - Heavy Ion Mass Spectrometry Incorporating Superconducting Tunnel Junctions
  - Advisor(s): Mark Bier

- **Michael Joseph Polen Jr.**
  - Development of a Cold Stage to Measure Ice Nucleating Activity Produced by Biomass Burning: Ash, Aerosol and Aging
  - Advisor(s): Ryan Sullivan

- **Thomas Ribelli**
  - Development of Highly Active and Selective Copper Catalysts for ATRP Initiating Systems
  - Advisor(s): Krzysztof Matyjaszewski

- **Serzhan N. Sakipov**
  - Molecular Modeling: Studies Investigating Mechanisms Behind the Function of Biological Macromolecules
  - Advisor(s): Maria Kurnikova

- **Artur Sargun**
  - Metal-Modified Peptide Nucleic Acids with Applications in Supramolecular Chemistry and Nanotechnology
  - Advisor(s): Catalina Achim

- **Woong Young So**
  - Emission Mechanism of Silicon Nanoparticles
  - Advisor(s): Linda Peteanu

- **Guojun Xie**
  - Molecular Bottlebrushes as Novel Materials
  - Advisor(s): Krzysztof Matyjaszewski

- **Jiajun Yan**
  - Polymer Hybrid Materials: Preparation and Properties
  - Advisor(s): Krzysztof Matyjaszewski

- **Shuo Zhao**
  - Electrochemical Applications of Atomically Precise Gold Nanoclusters
  - Advisor(s): Bongchao Jin
COLLEGE DEGREE LISTINGS

Chemistry and Engineering and Public Policy
Qing Ye
Atmospheric Organic Aerosols: Formation, Mixing and Human Exposure
Advisor(s): Neil Donahue, Ryan Sullivan

MATHEMATICAL SCIENCES

BACHELOR OF SCIENCE

Computational Finance
- Zizhuo Chen
- Tianyu Gu
  Additional Major: Computer Science
- Weng Shian Ho
- Zhuoyang Li
- Dongyun Lim
  Minor: Statistics
- Xingjian Yu
- Quchen Zhou
  Minor: Statistics
- Yisu Zhou
  Additional Major: Statistics and Machine Learning

Mathematical Sciences
- David J. Altizio
  Minor: Computer Science
  Vineet Vikas Apte **
- Matthew A. Bowen
  Tai-Wei Chang
  Eugene Han
  Additional Major: Computer Science
  Nicholas Mario Houglund
  Huayun Huang
  Additional Major: Human-Computer Interaction
  Koutian Huang
  Lilan Huang **
  Cody T. Johnson
  Jordan T. Klodowski
- Julia Marie Koltas
  Additional Major: Psychology
  Donghyun Koo
  Additional Major: Computer Science
- Andrew O. Kwon
- Joonha Lee
  Minor: Business Administration
  Minor: Computer Science
- Hang Liao
  Additional Major: Computer Science
- Ziyun Liu *
- Hannah Mahon
- Alan J. Menaged
  Minor: Computational Biology

Cameron C. Montag
  Additional Major: Computer Science
- David E. Neiman
  Additional Major: Robotics
- Shonak P. Patel
- Mehar Sawhney
- Joshua M. Siktar **
  Minor: Philosophy
- Sukhanyak Sohi
  Alexander E. Sugar
- Taisuke Yasuda
  Additional Major: Computer Science
- Xiaorong Zhang
  Additional Major: Computer Science
  Minor: Computational Finance

Mathematical Sciences (Computational and Applied Mathematics)
- Xinhui Guo **
  Minor: Machine Learning
- Shuailin He
  Additional Major: Computer Science
- Ran Huan
  Additional Major: Computer Science
  Additional Major: Statistics and Machine Learning
  Chaoran Jin
  Yuanyuan Li
  Additional Major: Computer Science
  Jiaxuan Liu
  Minor: Animation and Special Effects
  Minor: Human-Computer Interaction
- Nadia H. Razek
  Additional Major: Human-Computer Interaction
- Sylvia A. Taylor
  Additional Major: Psychology
- Robert D. Widmann
- Ziniu Wu
  Hanying Xu
  Chuning Yang
  Additional Major: Machine Learning
- Huiwen Zhang
  Additional Major: Statistics
  Minor: Computational Finance

Mathematical Sciences (Discrete Mathematics and Logic)
- Joshua M. Ackerman
  Minor: Computer Science
- Weimiao Chen
  Additional Major: Computer Science
  Additional Major: Computational Finance
- Christopher D. Grossack
  Minor: Music
  Bradley Guan
  Minor: Machine Learning
  Minor: Computer Science
- Elliot D. Haney
  Minor: Computer Science
- Raymond Hogenson
  Additional Major: Computer Science
- Necati Alp Muyesser
- Jacob Neumann
  Additional Major: Logic and Computation
- Brian R. Riedel *
  Kartik Sabharwal
  George Viccaro
- Emily Zhu

Mathematical Sciences (Operations Research and Statistics)
- Sahil J. Abraham
  Foster J. Boales
  Tyler M. Chapin
- Bryan Ding
  Minor: Computational Finance
  Minor: Japanese Studies
  Shenhuan Fang
  Cindy Fouraker
- Akanksha Kartik **
  Minor: Computer Science
- Gean Shen
  Minor: Business Administration
  Minor: Computational Finance
- Jacob Silverman
  Minor: Economics
  Varun Singh *
  Minor: Computer Science
- Qiuyu Wang
  Additional Major: Statistics
  Xue Yang
  Minor: Business Administration
- Ran Yao
  Additional Major: Computer Science
  Shaojie Zhang

Mathematical Sciences (Statistics)
- Matthew B. Kowaleski
  Minor: Technology and Policy
- Drew Darragh Moses
  Minor: Machine Learning
  Minor: Physics
- Ho Tae Noh
  Jeremy T. Wei
  Wenjia (Laura) Zhang
  Minor: Business Administration
  Minor: Computer Science

MASTER OF SCIENCE

Mathematical Sciences
- David J. Altizio
  Matthew A. Bowen
  Hanif Joey Cheung *
  Cody T. Johnson
  Cameron C. Montag
  Necati Alp Muyesser
  David E. Neiman
  Yifan Sun

*GRADUATED 14-AUG-2018  **GRADUATED 19-DEC-2018
Andrew Joseph Warren
Xinyu Wu
Jingjing Xu
Taisuke Yasuda
Emily Zhu

DOCTOR OF PHILOSOPHY

Christopher David Almost
Diffusion Scaling of a Limit-Order Model: The Symmetric Case
Advisor(s): Steven Shreve

Michael Anastos
Algorithmic and Structural Properties of Random Graphs
Advisor(s): Alan Frieze

Joseph Briggs *
Online Algorithms and Extremal Structures
Advisor(s): Wesley Pegden

Samuel Cohn *
On the Homogenization of Diffusions in Periodic Comb-Like Structures
Advisor(s): Gautam Iyer, Robert Pego

Yuanyuan Feng
Dissipation Enhancement by Mixing
Advisor(s): Gautam Iyer

Giovanni Gravina
Variational Techniques for Water Waves and Singular Perturbations
Advisor(s): Giovanni Leoni

David H. Gutman
First-Order Methods in Convex Optimization: Acceleration, Conditioning and Rescaling
Advisor(s): Javier Peña

Adrian C. Hagerty
Variational Methods for Second Order Structured Deformations and Multiscale Problems
Advisor(s): Irene Fonseca

Clive William Newstead **
Algebraic Models of Dependent Type Theory
Advisor(s): Steve Awodey

Yue Pu *
Weakly Singular Waves and Blow-Up for a Regularization of the Shallow-Water System
Advisor(s): Robert Pego

Xiaofeng Yu
Diffusion Scaling of a Limit-Order Book Model: The Asymmetric Case
Advisor(s): Steven Shreve

Jing Zhang
Some Results in Combinatorial Set Theory
Advisor(s): James Cummings

Alex Fernez
Minor: Mathematical Sciences

Sara A. Graves
Minor: Gender Studies
Minor: Politics and Public Policy

Steven M. Hall
Minor: Computer Science

Nicholas Mario Hougland
Akira Kyle **
Additional Major: Computer Science
Advisor(s): Robert Suter

Ziyin Liu *
Minor: Computer Science

Ruvini Navarathna
Minor: Biomedical Engineering

Hannah B. Smith

Physics/Applied Physics Track

Yi Fan *
Thomasjae Garcia
Evon J. Harber
Minor: Robotics

Akari C. Kumagai
Eamon B. Levin
Diamond Marie Moody
Minor: Engineering Studies

Pinxu Ren
Minor: Engineering Studies

Shanshan Xie
Additional Major: Robotics

Daniel C. Yan
Minor: Engineering Studies

Zachary J. Zumbo

Physics/Astrophysics Track

Ian M. Holst
Minor: Robotics

Olivia Kung *
Minor: Physical Computing

Pavitra Ramesh

Physics/Chemical Physics Track

Adrian A. Johnson

Physics/Computational Physics Track

Xuekai Du **
Luka Alexander Jelenak
Minor: Computer Science

Evan Schindewolf
Minor: Economics
Minor: Robotics

Cassidy N. Smith
Minor: Computer Science

Muhammed Fethullah Erguder
Yang Huang
Peikai Li
Yueying Ni
Emma Rollinson Oxford
Shashin Pavaskar
Rebecca Rapp
Alejandro Sanchez
Andrew Smith
Daniel Zile

DOCTOR OF PHILOSOPHY

Rulin Chen **
Quantitative Study of Polycrystal Deformation Using High Energy X-ray Diffraction Microscopy
Advisor(s): Robert Suter

Brian P. Josey
Association of Neurotransmitters with stBLMs
Advisor(s): Mathias Losche

Hsiao-Hsien Lin *
Fast Radio Bursts Detections and Pulsar Timing Solutions Using Intensity Mapping Data
Advisor(s): Jeffrey B. Peterson

Mao-Sheng Liu **
Inference of Dark Matter Density Profiles of Dwarf Spheroidal Galaxies via Distribution Functions
Advisor(s): Markus Deserno

Mustafa Mert Terzi **
Curvature-Tilt Theories of Lipid Membranes
Advisor(s): Markus Deserno

Evan Corey Tucker
Galaxy Clusters in the Presence of Substructure
Advisor(s): Matthew Walker

Xiaou Zhang
Topological Effects in Various Two-Dimensional Systems
Advisor(s): Di Xiao

Muhammad Fethullah Erguder
Yang Huang
Peikai Li
Yueying Ni
Emma Rollinson Oxford
Shashin Pavaskar
Rebecca Rapp
Alejandro Sanchez
Andrew Smith
Daniel Zile

STUDENT-DEFINED MAJORS

BACHELOR OF SCIENCE

Cognitive Systems
Daniel A. Morris
Minor: Innovation and Entrepreneurship

Computational Game Development
Miranda A. Zeitlin

Technology and Media for Educational Innovation
Eduardo Flores
School of Computer Science

INTERIM DEAN OF THE SCHOOL
Tom M. Mitchell

DEAN OF CARNEGIE MELLON UNIVERSITY IN QATAR
Michael A. Trick

COMPUTATIONAL BIOLOGY
Robert F. Murphy, Head of the Department

COMPUTER SCIENCE
Srinivasan Seshan, Head of the Department

HUMAN-COMPUTER INTERACTION INSTITUTE
Jodi Forlizzi, Director of the Institute

INSTITUTE FOR SOFTWARE RESEARCH
William L. Scherlis, Director of the Institute

LANGUAGE TECHNOLOGIES INSTITUTE
Jaime G. Carbonell, Director of the Institute

MACHINE LEARNING
Roni Rosenfeld, Head of the Department

ROBOTICS INSTITUTE
Martial Hebert, Director of the Institute

COMPUTATIONAL BIOLOGY

BACHELOR OF SCIENCE
Computational Biology

- Douglas Z. Qian
- Chaya Wurman **
  Minor: Biomedical Engineering
- Muyu Yang

MASTER OF SCIENCE
Computational Biology - Advanced Study
Kelvin Minhao Liu **

DOCTOR OF PHILOSOPHY
Sabrina Rashid
Distributed Computing in Nature
Advisor(s): Ziv Bar-Joseph
Xiongtao Ruan
Computational Methods for Image-derived Modeling of Cell Shape and Organization Dynamics
Advisor(s): Robert F. Murphy
Bradley Ryan Solomon *
Computational Methods for Enabling Experiment Discovery on 100-Terabyte RNA-seq Datasets
Advisor(s): Carl Kingsford

COMPUTER SCIENCE

BACHELOR OF SCIENCE
Computer Science

- Nikita A. Agarwal
  Minor: Human-Computer Interaction
- Zejie Ai
  Minor: Engineering Studies

Gustavo Eduardo Angulo Mezerhane **
Minor: Language Technologies

Emilio Arroyo-Fang
Minor: Machine Learning

Tanvi Bajpai
Additional Major: Discrete Mathematics and Logic
David Bang

Jayanth S. Bharadwaj
Minors: Human-Computer Interaction
Zhong Yu Bing **
Minors: Human-Computer Interaction
Elizabeth J. Board **
Minor: Human-Computer Interaction
Prachi A. Bodas **
Minor: Robotics

Wenmeye Cai
Minor: Animation and Special Effects
Ziheng Cai

Grant Oliver John Campfield
Minor: Machine Learning
Darshan Chakrabarti
Minor: Machine Learning
Mathematics: Mathematical Sciences
Anthony L. Chan
Additional Major: Statistics and Machine Learning
Joyce Tian Chen
Minor: Human-Computer Interaction
Michael B. Chen
Minor: Computational Finance
Jessica Y. Cheng
Minor: Business Administration

Ricson Cheng **
Minor: Machine Learning
Stephen Alexander Clark
Minor: Business Administration
Minor: Machine Learning

Eric C. Clinch
Minor: Logic and Computation
Zeina Darwiche
Minor: Psychology
Evan Taylor DeSantola
Minor: Business Administration
Pranav S. Devarakonda
Minor: Mathematical Sciences
Zhan Dong
Minor: Machine Learning
Xiong-Fei Du
Minor: Engineering Studies
Alice Duan
Minor: Learning Media
Minor: Social and Political History
Cem Ersoz
Additional Major: Robotics
Alexandre C. Ettouati
Minor: Business Administration
Allana Adan Evans
Minor: Machine Learning
Axel S. Feldmann
Minor: Robotics
Benjamin J. Fishbaum
Minor: Mathematical Sciences
Alexander M. Friedman
Minor: Human-Computer Interaction
Robert Toshimi Fry
Minor: Linguistics
Christopher N. Ganas **
Minor: Language Technologies
Young Jean Han **
Minor: Mathematical Sciences

*GRADUATED 14-AUG-2018 **GRADUATED 19-DEC-2018
Charisse S. Haruta  
Additional Major: Cognitive Science

Mohammed Qusay Hashim  
Minor: Mathematical Sciences

George Hatzis-Schoch  
Minor: Discrete Mathematics and Logic

Jong Woo Hong  
Minor: German Studies

Daniel C. Howarth  
Minor: Neural Computation

Jeremy Ahrens Huang  
Minor: Physics

Koutian Huang  
Minor: Animation and Special Effects

Seungmin Hwang  
Minor: Animation and Special Effects

Ariela H. Immordino  
Minor: Mathematical Sciences

Rahul Jaisingh  
Minor: Business Administration

Puja Jena  
Minor: Business Administration

Rebecca L. Jesurum  
Minor: Physics

Shuli Jiang  
Minor: Engineering Studies

Yang Jin  
Minor: Engineering Studies

Vincent K. Kang  
Minor: Machine Learning

Ildoo Kim  
Minor: French and Francophone Studies

Grace E. Kao  
Minor: Human-Computer Interaction

Omar Ahmed Metwally Khattab  
Minor: Mathematical Sciences

Dhruv Khurana  
Minor: Robotics

Ildeo Kim  
Additional Major: Computational and Applied Mathematics

Minor: Computational Finance

Minor: Machine Learning

Ji Woo Kim  
Minor: Philosophy

Sean D. Kim  
Minor: Philosophy

Anne E. Kohlbrenner  
Additional Major: Philosophy

Junhan Kong  
Additional Major: Human-Computer Interaction

Minor: Machine Learning

Minor: Statistics

Kai Kuehner  
Minor: Game Design

Arisha J. Kulshrestha  
Minor: Language Technologies

Minor: Physics

Clare X. Lai  
Minor: Biomedical Engineering

Minor: Human-Computer Interaction

Prachi A. Laud  
Minor: Machine Learning

Nghia T. Le  
Minor: Machine Learning

Mark Lee  
Minor: Machine Learning

Dongyu Li  
Minor: Machine Learning

Jonathan Lingjie Li  
Minor: Engineering Studies

Mengze Li  
Minor: Physics

Qingyang Li  
Minor: Robotics

Shangda Li  
Minor: Mathematical Sciences

Shaoyan S. Li  
Minor: Discrete Mathematics and Logic

Yucen Li  
Minor: Language Technologies

Minor: Statistics

Patrick Lin  
Additional Major: Discrete Mathematics and Logic

Nikhil Lingireddy  
Minor: Business Administration

Justin C. Liu  
Minor: Statistics

Xinran Liu  
Additional Major: Discrete Mathematics and Logic

Ian Lo  
Minor: Biomedical Engineering

Minor: Robotics

Vicki Long  
Minor: Sound Design

Janine Audrey Louie  
Minor: Game Design

George C. Lu  
Additional Major: Discrete Mathematics and Logic

Zhichu Lu  
Minor: Engineering Studies

Jason Ma  
Minor: Art

Tianjun Ma  
Minor: Human-Computer Interaction

Charles S. Meng  
Minor: Machine Learning

Xiangquan Meng  
Minor: Robotics

Jared Moore  
Minor: Software Engineering

Aaron L. Mortenson  
Minor: Linguistics

Hariank S. Muthakana  
Minor: Machine Learning

Emily P. Newman  
Minor: Machine Learning

Amadou L. Ngom  
Minor: Machine Learning

Thomas J. O’Connor  
Minor: Machine Learning

Justin U. Okor  
Minor: Machine Learning

Lily T. Olson  
Minor: Business Administration

Abubaker Omer  
Minor: Mathematical Sciences

Steven Thomas Palmer  
Minor: Business Administration

Jacqueline Peng  
Minor: Sonic Arts

Jack Wallace Penick  
Minor: Machine Learning

Matthew G. Quarles  
Minor: Music

Vijay Ramamurthy  
Minor: Mathematical Sciences

Pranjali Rathi  
Minor: Mathematics

Clifford S. Ressel  
Minor: Mathematical Sciences

Rameel S. Rizvi  
Minor: Robotics

Nicholas J. Roberts  
Minor: Linguistics

Eliot W. Robson  
Additional Major: Discrete Mathematics and Logic

Matthew Salim  
Minor: Business Administration

Tomas Alejandro San Miguel  
Minor: Game Design

Minor: Social and Political History

Matthew D. Savage  
Minor: Human-Computer Interaction

Minor: Mathematical Sciences

Shaden Hamzeh Shaar  
Minor: Mathematical Sciences

Amy Cheng Shan  
Minor: Business Administration

Jiaxiang Sheng  
Minor: Mathematical Sciences

Lanbo Shi  
Minor: Mathematical Sciences

Changning Shou  
Minor: Human-Computer Interaction

Seoyeon Sim  
Minor: Music

Deeksha Singh Vijay Singh  
Minor: Entrepreneurship (Student-Defined Minor)

Naviya Singla  
Minor: Mathematical Sciences

Additional Major: Creative Writing

Alexander Michael Smith  
Minor: Cybersecurity and International Conflict

Zachary John Snow  
Minor: Business Administration

Maoyuan Song  
Minor: Discrete Mathematics and Logic

Elora A. Strom  
Minor: Business Administration

Madox Summerrmater  
Minor: Mathematical Sciences
COLLEGE DEGREE LISTINGS

Alan T. Sun
Minor: Discrete Mathematics and Logic

Bili A. Sun **
Minor: Machine Learning

Xi Sun **
Additional Major: Robotics

Chandrakumari Suvarna
Minor: Language Technologies

Sean H. Tao
Minor: Business Administration

Uday Uppal **
Minor: Game Design

Tanay Vakharia **
Additional Major: Mathematical Sciences

Jeanne Lia VanBriesen
Minor: Mathematical Sciences

Jonathan C. VanBriesen
Minor: Ethics

Zachary A.L. Wade
Minor: Mathematical Sciences

William A. Walters **
Minor: Business Administration

Tracy M. Wan
Minor: Machine Learning

Charles Wang
Minor: Human-Computer Interaction

Dennis H. Wang
Minor: Machine Learning

Di Wang **
Minor: Computational Finance

Phillip K. Wang
Minor: Mathematical Sciences

Serena Wang **
Minor: Machine Learning

Ziyang Wang **
Minor: Machine Learning

Daniel L. Wen
Minor: Machine Learning

Junghan Woo **
Minor: Language Technologies

Caroline Z. Wu
Minor: Music

Xinyu Wu
Additional Major: Mathematical Sciences

Yiqi Xiang **
Minor: Human-Computer Interaction

Newton C. Xie
Minor: Mathematical Sciences

Mengyun Xu **
Minor: Robotics

Sheng Xu
Minor: Computational Finance

Victor Z. Xu
Minor: Mathematical Sciences

Yiqin Xu
Minor: Machine Learning

Yue Xu
Additional Major: Physics
Minor: Neural Computation

Ziyu Xu
Minor: Machine Learning

Rohan Yadav
Minor: Machine Learning

Rujia Yang
Minor: Machine Learning

Zhiying Yao
Additional Major: Statistics
Minor: Computational Finance

Meheresh S. Veditha
Minor: Language Technologies

Alexander L. Yeh **
Minor: Human-Computer Interaction

Sonia P. Yeolekar
Minor: Social and Political History

Anita Yerneni
Minor: Machine Learning

Shalom A. Yiblet
Minor: Machine Learning

Yue Yin
Minor: Mathematical Sciences

Xingjian Yu
Minor: Mathematical Sciences

Chenhui Yuan
Minor: Machine Learning

Chenxi Yuan
Minor: Machine Learning

Michelle Zhang
Minor: Economics

Wilson Y. Zhao **
Minor: Neural Computation

Yixiu Zhao
Additional Major: Mathematical Sciences
Minor: Physics

Yishan Zhou
Minor: Engineering Studies

Bofei Zhu
Minor: Mathematical Sciences

Tiffany Zhu **
Minor: Human-Computer Interaction

MASTER OF SCIENCE

Algorithms, Combinatorics and Optimization

Amirbehshad Shahrabi

Computer Science

Tushar Agarwal **
Anshu Aviral **
Sai Praveen Bangaru **
Priyatham Bolliampalli **
Matthew Erich Butrovich **
Minxuan Cao **
Ziyuan Chen **
Taylor Everett Clarke
Ryan Michael DeFigueiredo **
Connie Fan **
Yuan Gao **
Sarthak Garg **

David Herbert Gregory Gershuni
Tsai-Szu Hu **
Yue Ji **
Zeleena G. Kearney
Eipe Koshy **
Ping-Min Lin **
Yixing Liu **
Daniel Eliot Mahr **
Joel Ruben Antony Moniz **
Vy Nguyen **
Witold Passerat de La Chapelle **
Ticha M. Sethapakdi
Varun Sharma
Haoran Shu **
Mohit Deep Singh **
Sivaprasad Sudhir **
Yushi Sun **
Majeed Omer Thaika **
Jordan R. Tick **
Justin Chen Wang **
Tianxiong Wang **
Yiquan Wang **
Danniel Si-Hui Yang **
Linxuan Yang **
Yao Yao **
Cheng Ran Zhang **

Computer Science - Research

Solomon Boucher **
Farzaneh Derakhshan
Ryan Andrew Kavanagh *
Daehyeok Kim
Lin Ma **
Alexander B. Poms *
Evan B. Shimizu **
Ellen Vitercik **
Jinliang Wei **
Samuel Yeom **
Christopher Yu **
Tiancheng Zhi *

Computer Science - Research Thesis

Sanjay Chandrasekaran
Aditya R. Krishnan *
Gaurav Lahiry
Tianyu Li
Praladhad Mallela
Yangjun Sheng

DOCTOR OF PHILOSOPHY

Brandon David Amos
Differentiable Optimization-Based Modeling for Machine Learning
Advisor(s): Jeremy Zico Kolter
Joy James Prabhu Arulraj *
The Design and Implementation of a Non-Volatile Memory Database Management System
Advisor(s): Andy Pavlo
Ben Blum **
Practical Concurrency Testing or: How I Learned to Stop Worrying and Love the Exponential Explosion
Advisor(s): Garth Gibson
Se-joon Chung **
Hand Pose Estimation and Prediction for Virtual Reality Applications
Advisor(s): Nancy S. Pollard
Travis Barry Dick
Machine Learning: Social Values, Data Efficiency and Beyond Prediction
Advisor(s): Maria-Florina Balcan
Shayan Doroudi
Integrating Human and Machine Intelligence for Enhanced Curriculum Design
Advisor(s): Emma Brunskill
Nathan Fulton **
Verifiably Safe Autonomy for Cyber-Physical Systems
Advisor(s): Andre Platzer
Yan Gu **
Write-Efficient Algorithms
Advisor(s): Guy E. Blelloch
Zhaohan Guo
Directed Exploration for Improved Sample Efficiency in Reinforcement Learning
Advisor(s): Emma Brunskill
Guru Prashanth Guruganesh **
Topics in Approximation and Online Algorithms
Advisor(s): Anupam Gupta
Nika Haghhtalab *
Foundation of Machine Learning, by the People, for the People
Advisor(s): Avrim Blum, Ariel D. Procaccia
Yong He **
Slang — A Shader Compilation System for Extensible, Real-Time Shading
Advisor(s): Kayvon Fatahalian
Jin Kyu Kim **
Framework Design for Improving Computational Efficiency and Programming Productivity for Distributed Machine Learning
Advisor(s): Garth A. Gibson, Eric P. Xing
Christian Kroer **
Large-Scale Sequential Imperfect-Information Game Solving: Theoretical Foundations and Practical Algorithms with Guarantees
Advisor(s): Tuomas Sandholm
Stefan Klein Muller **
Responsive Parallel Computation
Advisor(s): Umut Acar
Yuzuko Carol Nakamura **
Understanding and Applying Human Grasping to Artificial Manipulators
Advisor(s): Nancy S. Pollard
Jun Woo Park
Distribution-Based Cluster Scheduling
Advisor(s): Gregory R. Ganger
Vittorio David Perera *
Language-Based Bidirectional Human and Robot Interaction Learning for Mobile Service Robots
Advisor(s): Manuela M. Veloso
Kijung Shin
Mining Large Dynamic Graphs and Tensors
Advisor(s): Christos Faloutsos
Sahil Singla *
Combinatorial Optimization Under Uncertainty: Probing and Stopping-Time Algorithms
Advisor(s): Manuel Blum, Anupam Gupta
Wennie Talib
Approximate Continuous Belief Distributions for Exploration
Advisor(s): Nathan Michael, William "Red" Whittaker
Joseph Daniel Tassarotti **
Verifying Concurrent Randomized Algorithms
Advisor(s): Robert Harper
Colin Robert Willson White **
New Aspects of Beyond Worst-Case Analysis
Advisor(s): Maria-Florina Balcan
Zichao Yang
Incorporating Structural Bias into Neural Networks for Natural Language Processing
Advisor(s): Taylor Berg-Kirkpatrick, Eric P. Xing
HUMAN-COMPUTER
INTERACTION INSTITUTE
MASTER OF EDUCATIONAL TECHNOLOGY AND APPLIED LEARNING SCIENCES
Educational Technology and Applied Learning Sciences
Pankaj Ajit *
Mohammed Abduallah Alburaiki *
Gregory Bunyead
Samantha Brooke Weaver *
Harley Chang
Canhui Chen
Mianhong Chen *
Siyu Chen *
Michelle H. Deng *
Tanvi Shailesh Domadia
Ryan Emberling
Tianmi Fang *
Courtney L. Francis *
Wei Gong
Shivang Gupta
Yumei Jin *
Nagasanthosh Venkata Josyula *
Ye Jin Lee *
Hao Li
Wenjie Li
Yulin Liu *
Zhuolin Meng
Zachary Allan Mineroff *
Rui Ning *
Elizabeth Hamcke Osnwedder *
Rishi Prasad Pisipati
Juliet Carol Pusateri
Napol Rachatasumrit *
Julia Marin Ridley *
Yihong Shi
Jiaojiao Song *
Xiaoyan Song
Roger Strang *
Lu Sun *
Qianhui Sun
Srinivasa Teja Talluri *
Jiasi Tan
Hanyu Tang
Cheng-Hong Wang *
Chenxin Wang *
Jiaqi Wang
Yeyu Wang *
Anne Xie *
Kexin Yang
Lu Yang *
Mengxin Yu *
Duo-duo Zhang
Mingtong Zhang
Xiaofei Zhou
MASTER OF HUMAN-COMPUTER INTERACTION
Human-Computer Interaction
Charles Benjamin Abbott
Advita Adyanthaya
Neha Sandhya Agarwal
Rayna Leny Allonce
Hyo Shin Bae
Gillis Clio Bernard
Kunal Karan Bhuwalka
Doris Byeon
Lisa C. Carter
Maggie Chiu Yee Chan
Xiangzhu Chen
Yi Cheng
Won-Woo Chung
Katelyn Janae Duncan
Rufei Fan
Yifan Fu
Gabrielle Gayles
Zhaoli Ge
Emily Gong
Yuxiang Guo
Annette Hong
DOCTOR OF PHILOSOPHY

Nikola Banovic *
Computational Method for Understanding Complex Human Routine Behaviors
Advisor(s): Anind K. Dey, Jennifer Mankoff

Amy Shannon Cook
Using Interactive Learning Activities to Address Challenges of Peer Feedback Systems
Advisor(s): Steven Dow, Jessica Hammer

David Brent Gerritsen *
A Socio-Technical Approach to Feedback and Instructional Development for Teaching Assistants
Advisor(s): Amy Ogan, John Zimmerman

Brandon Thomas Taylor *
Real-Time Depth-Based Hand Tracking for American Sign Language Recognition
Advisor(s): Anind K. Dey, Daniel P. Sieworek

Bo Rober Xiao *
On-World Computing; Enabling Interaction on Everyday Surfaces
Advisor(s): Chris Harrison, Scott E. Hudson

INSTITUTE FOR SOFTWARE RESEARCH

MASTER OF INFORMATION TECHNOLOGY STRATEGY

Information Technology Strategy

Daniel Elijah Bittleston
Mufan Chen
Xiuyuan Guo **
Qiyang He **
Myra Iltefat **
Tianhao Li **
Yike Ma **
Emily Peterson
Hao Tang *
John Trezza
Shalee Keyur Vora *
Yao Xiao **
Muchen Xu **
Mengdi Yang **
Shangwu Yao **
Xiaoyun Ye
Hanfu Zhang **
Linghao Zhang *
Shipei Zhou **

MASTER OF SCIENCE

Human-Computer Interaction

Anhong Guo **
Anna Michele Kasunic Das **
Michal Luria
Julian A. Ramos Rojas
Joseph Ryan Seering *
Xu Wang **
Qian Yang **

Information Technology - eBusiness Technology

Himanshu Adlakha *
Sabihah Mahek Ahmed
Avneet Arora *
Nirmohi Banerjee *
Aigul Bayadil *
Chuhan Bin *
Jiajun Chen *
Sai Prasanth Chitti *
Chunyi Cui *
Fangjie Ding *
Yuhan Fu *
Jin Gong *
Jianing He *
Xinyang He *
Jingwen Hou *
Jiemin Huang *
Shulin Huang *
Yongkang Huang *
Anal Jain *
Boxin Jiang *
Jay Joshi *
Yongshan Ke *
Anqi Li *
Yinchen Li *
Yueshu Li *
Yanlin Liang *
Chang Liu *
Li Liu *
Xiaoxi Liu *
Xuan Liu *
Yang Liu *
Zhangqian Liu *
Ke Lu *
Mayuresh Narendra Waykole *
Yaqi Peng *
Annalena Ping *
Shenlin Qin *
Yujie Qiu *
Zhiyuan Ren *
Ajay Sainy *
Sakshi Gopal *
Yingfei Shen *
Sarvagya Soni *
Mohamed Sria *
Vignan Velivela *
Ji Wang *
Sen Wang *
Shuoze Wang *
Yinan Wang *
Yueying Wang *
Bing Wu *
Jiaqi Wu *
Rui Xing *
Rui Yang *
Shaoqian Yang *
Sitong Yang *
Mengyu Yin *
Xin Yuan *
Hao Zhan *
Xiaoyu Zhan *
Hongdi Zhang *
Mingquan Zhang *
Xian Zhang *
Xinlu Zhang *
Zhiyuan Zhang *
Buqian Zheng *
Lidi Zheng *
Ding Zhou *
Lan Zou **

Information Technology - Privacy Engineering
Yama Ahmadullah **
Sharada P. Boda **
Ao Chen **
Zhao Chen **
David W. Edelstein **
Jeremy Thomas
Fan Yang **
Jianlan Zhu **

Information Technology - Software Engineering
Lakshmi Abhigna Batchu **
Yifeng Chen
Steven Coulter **
Miaojiang Deng *
Yiyi Deng
Huijun Feng *
Jiahui Feng
Liwen Fang
Yuzhu Gao *
Noah Gerber
Nijanthan Hariharana *
Jiabei He *
Haoqi Hu
Xincheng Huang
Shivani Jha *
Chaoyi Jiang *
Yifan Jiao
Rishitha Kalakata **
Aditiya Nagnath Kamble *
Prathik Kotian **
Anjana Krishnamurthi **
Chen Li *
Xujin Li
Yue Li *
Muyang Lin
Cheng-Hung Liu *
Xue Liu *
Daiyi Lyu
Rishabh Panwar
Yiqun Peng *
Yue Qi
Hao Ren *
Jimmy Sambuo *
Arun Kumar Sankaranarayanan
Prachi Shah *
Xingchen Shen *
Jingze Shi
Kavya Singaravel **
Suryansh Soni
Athreyaa Sridharan
Laxmi Priyadharshini Suresh Kumar **
Benjamin Jacob Susman
Minghui Tang
Kiran Thomas
Qingqing Tong *
Aakash Kishan Vinjamur
Ruihan Wang *
Wei Wang
Wei-Hsuan Wang
Yiting Wang
Zeexhi Wen *
Tianli Wu
Yifei Wu *
Shuli Xia *
Tong Xiao
Ke Xie *
Guofu Xiong
Yujie Xu
Tao Yu *
Atika Yusuf
Changjiian Zhang *
Jiakai Zhang *
Yuanzong Zhang
Yunzheng Zhang
Dongliang Zhou *

Information Technology - Embedded Software Engineering
Soham Shekhar Donwalkar **
Ankur Gumber **
Yu-Sam Huang **
Rashmi Kalkunte Ramesh **
Yannan Liu **
Tannmay Anand Patil **
Puneetham Ramachandra **
Wei Chia Yen **
Yumo Zhang **

Information Technology - Software Engineering Management
Sashank Mitra Pandem *

MASTER OF SOFTWARE ENGINEERING

Software Engineering
Shipra Agrawal **
Abdulwahab Abdulaziz M. Almorebah **
Mayank Bharat Ambaliya **
Antony Praveen Durairaj **
Bharath Hegde **
Feiyang Liu **
Timothy Mon
Tatsuuya Nanjo **
Siram Koushik Uppili **
Vaibhav Walia **
Yue Wang **
Runchen Yan **
Kenji Yonekawa **
Jie Zhang **
Yinuo Zhang

MASTER OF SCIENCE IN SOCIETAL COMPUTING

Societal Computing
Joshua Samuel Keat Sen Tan

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Software Engineering
Afsoon Afzal
Amor Hermosilla Alfieri
Cody Benjamin Kinneer *
Ashutosh Pandey *
Daniel Smullen
Mauricio Soto Gonzalez **
Rijnard van Tonder **
Nuo Yan

DOCTOR OF PHILOSOPHY

Jaspreet Bhatia
Ambiguity in Privacy Policies and Perceived Privacy Risk
Advisor(s): Travis Breaux
Hanan Hibshi **
Composite Security Requirements in the Presence of Uncertainty
Advisor(s): Travis Breaux
Momin Meraj Malik *
Bias and Beyond in Digital Trace Data
Advisor(s): Anind K. Dey, Jurgen Pfeffer
LANGUAGE TECHNOLOGIES INSTITUTE

MASTER OF COMPUTATIONAL DATA SCIENCE

Computational Data Science - Human-Centered Data Science

Pranav Dheram **
WeiQi Fang **
Yanzun Huang
Wen Li **
Dongyang Lu **
Dhruv Dipak Shah **
Swapnil Singhai **
Jingyu Wang **
Yi Xu **
Chuankai Zhang
Jieli Zhou **
Yuntao Zhou

Computational Data Science - Analytics

Anuva Agarwal **
Aayush Ahuja **
Anna Belova
Yue Cao **
Raghuvire Chanda **
Chian-Yu Chen **
Yuchen Cheng **
Hima Varsha Dureddy **
Soham Ghosh **
Mansi Gupta **
Fan Hu **
Xin Jin
Zachary Kaden **
Mihir Sanjay Kale **
Blhunya Vinod Karki **
NitiSh Kumar Kulkarni **
Jean Lee **
Shihui Li **
Yutong Li **
Zequn Li **
Zirui Li **
Yu-Hsiang Lin **
Sushant Mehta **
Sreyashi Nag **

Ganesh Palanikumar **
Zhishen Pan **
Zarana Pareshkumar Parekh **
Radhika Parik **
Anirudha Raysam **
Aditya Siddhant **
Sida Wang **
Siyuan Wang **
Qiue Wu
Huanghao Zhang **
Yuan Zhang **
Zinian Zhao **
Linwu Zhong **
Ziyi Zhong

Computational Data Science - Systems

Ke Chang **
Tao Dai **
Bowen Deng **
Ruogu Du **
Rong Huang **
Xingyu Jin **
Ziheng Liao **
Shenjie Luo **
Siyuan Sheng **
Peixin Sun **
Yihe Tang **
Ao Zeng **
Bohan Zhang **

MASTER OF SCIENCE

Biotechnology Innovation and Computation

Vikash Anand
Yuchen Cao
Yashovardhan Chaturvedi
Simral Chaudhary
Manisha Chaurasia
Sarveshwaran Dhanasekar
Yunhan Gao
Sunil Kumar
Shan Li
Shiyao Li
Boyu Liu
Yuyang Liu
Prajwal Prakash Vasisht
Piyusha Sane
Zhihe Shen
Bowen Tan
Yongfa Tan
Shubham Tripathi
Liang Zhang
Yichi Zhang
Zheng Zhang
Kuo Zhao
Xiwen Zhao
Xiaoyu Zhou
Jue Zou

Intelligent Information Systems

Pravalika Avvaru **
Pooja Chitkara **
Alexander Martin Coda **
Madhura Das **
Pramat Sudhindra Kalwad **
Anusha Kamath **
Harini Kesavamoorthy **
Arnav Kumar **
Varun Bharadhwaj
Lakshminarasimhan **
Xinjian Li **
Zhu Liu **
Samuel Maskell **
Goutam Nair **
Ashwin Nareshkumar **
Srividya Pranavi Potharaju **
Anusha Prakash **
Ipsita Prakash **
Anushree Prasanna Kumar **
Poorva Ganesh Rane **
Ying Shen **
Arvind Srikantan **
Gabriel Bayomi Tinoco Kalejaiye **
Yiming Wang **
Kangyan Zhou **

Language Technologies

Emily Ahn
Vidhisha Balachandran
Sai Abishek Bhaskar
Luke Breitfeller
Khyathi Raghavi Chandu *
Aditi Swanand Chaudhary
Xianyang Chen
Samriddhi Shree Choudhary *
Siddharth Dalimia *
Danish Danish *
Wenchao Du
Yulun Du *
James Fiacco *
Liangke Gui
Shirley Anugrah Hayati
Alankar Jain
Harsh Jhantani *
Divyansh Kaushik
Xiang Kong
Rajat Kulshreshtha *
Jean-Baptiste Lamare
George Larionov
Teven Le Scao
Bohan Li
Boyue Li *
Juncheng Li
Xinya Li
Tzu-Hsiang Lin
Jiang Liu
Jingzhou Liu *
Chaitanya Malaviya *
Raghuram Mandym Annasamy
Thomas R.R. Manzini *
Sanket Vaibhav Mehta
Paul Michel *
Hafeezul Rahman Mohammad
Aldrian Obaja Muis
Chirag Nagpal *
Aakanksha Roshanbhai Naik *
Raphael Olivier
Naoki Otani
Shruti Jayant Palaskar *
Bhargavi Vijay Paranjape
Shivani Poddar *
Xin Qian *
Sai Krishna Rallabandi *
Abhilasha Ravichander *
Sruthi Rijhwani *
Andrew James Runge
Elizabeth Edwards Salesky
Ramon Roger Sanabria Teixidor
Ankit Parag Shah
Vasu Sharma
Seungwhan Moon *
Proactive Transfer Learning
Advisor(s): Jaime Carbonell
Keerthiram Murugesan **
Online and Adaptive Methods for Multitask Learning
Advisor(s): Jaime Carbonell
Swabha Swayamdipta
Syntactic Inductive Biases in Natural Language Processing
Advisor(s): Chris Dyer, Noah A. Smith
Samuel McIntire Thomson
Encoding and Decoding Graph Representations of Natural Language
Advisor(s): Noah A. Smith
Yun Wang **
Polyphonic Sound Event Detection with Weak Labeling
Advisor(s): Florian Metze
Chenyang Xiong **
Text Representation, Retrieval and Understanding with Knowledge Graphs
Advisor(s): Jamie Callan
Dijyi Yang
Computational Social Roles
Advisor(s): Eduard Hovy, Robert Kraut
Tiancheng Zhao
Learning to Converse with Latent Actions
Advisor(s): Maxine Eskenazi
Guoqing Zheng **
Empowering Probabilistic Inference with Stochastic Deep Neural Networks
Advisor(s): Jaime Carbonell, Yiming Yang
Himakeerth Tammineedi
Yifeng Tao **
Yao-Hung Tsai **
Jie Xie
Susu Xu **
Yichong Xu
Shuguang Yang **
Hongyang Zhang **
Lingyao Zhang **
Pinchao Zhang **
Yang Zhang **
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Chenghui Zhou **

Manzil Zaheer *
Representation Learning@Scale
Advisor(s): Barnabas Poczos, Ruslan Salakhutdinov, Alexander Smola

Hongyang Zhang
New Advances in Sparse Learning, Deep Networks, and Adversarial Learning: Theory and Applications
Advisor(s): Maria-Florina Balcan, David P. Woodruff

Neural Computation and Machine Learning
Nicole Selma Rafidi *
Using Machine Learning for Time Series to Elucidate Sentence Processing in the Brain
Advisor(s): Tom M. Mitchell

Himakeerth Tammineedi
Yifeng Tao **
Yao-Hung Tsai **
Jie Xie
Susu Xu **
Yichong Xu
Shuguang Yang **
Hongyang Zhang **
Lingyao Zhang **
Pinchao Zhang **
Yang Zhang **
Shuo Zhao **
Chenghui Zhou **

DOCTOR OF PHILOSOPHY

Alnur Ali
Statistical and Computational Properties of some “User-Friendly” Methods for High-Dimensional Estimation
Advisor(s): Jeremy Zico Kolter, Ryan Tibshirani

Carlton MacDonald Downey
Unified Models for Dynamical Systems
Advisor(s): Geoffrey Gordon

Simon Shaolei Du
Gradient Descent for Non-Convex Problems in Modern Machine Learning
Advisor(s): Barnabas Poczos, Aarti Singh

Bryan Hooi
Anomaly Detection in Graphs and Time Series: Algorithms and Applications
Advisor(s): Christos Faloutsos

Hanzhang Hu
Anytime Predictions and Learning for the Balance Between Computation and Accuracy
Advisor(s): J. Andrew Bagnell, Martial Hebert

Kirthivasan Kandasamy *
Tuning Hyper-Parameters Without Grad Students: Scaling Up Bandit Optimisation
Advisor(s): Barnabas Poczos, Jeff Schneider

Junier Barbaro Oliva *
Distribution and Histogram (DisH) Learning
Advisor(s): Barnabas Poczos, Jeff Schneider

Veeranjaneyulu Sadhanala
Nonparametric Methods with Total Variation Type Regularization
Advisor(s): Ryan Tibshirani

Shashank Srivastava **
Teaching Machines to Classify from Natural Language Interactions
Advisor(s): Tom M. Mitchell

Yining Wang
Selective Data Acquisition in Learning and Decision Making Problems
Advisor(s): Aarti Singh

Pengtao Xie *
Diversity-Promoting and Large-Scale Machine Learning for Healthcare
Advisor(s): Eric P. Xing

Robotic Systems Development
Basel Alghanem **
Daniel L. Arnett
Shivang Baveja **
Joshua John Bennett **
Zihan Henry Chen **
Tze Hao Chong **

Masters of Science

Computer Vision
Kashyap Chitta **
Yu Ding **
Jianwei Feng **
Siddhant Jain **
Yi Jiang **
Ankita Kalra **
Surejya Narayanan Lakshmanan **
Xunyu Lin **
Gaurav Mittal **
Akhshita Mittal **
Purna Sowmya Munukutla **
Yash Patel **
Yongchi Su **
Shashank Tripathi **
Manchen Wang **
Shengze Wang **
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Pratibha Tripathi **
Yuchi Wang **
Andrew Williams Wong **
Yang Yang **
Abdul Moeed Zafar **

Robotics
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Akshat Agarwal
Arpit Agarwal *
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Rogerio Bonatti **
Jack Buffington *
Chao Cao
Kai-Hung Chang *
Yifan Ding
Logan Michael Ellis *
Jaskaran Grover *
Matthew Hancor *
Christopher Hazard *
Gines Hidalgo Martinez
Bingjui Ho *
SAFE DATA GATHERING IN PHYSICAL SPACES
Advisor(s): Sebastian Scherer

LEARNING WITH CLUSTERS
Advisor(s): Artur Dubrawski

LIGHT SHEET DEPTH IMAGING
Advisor(s): Srinivasa Narasimhan, William “Red” Whittaker

INTRA-ROBOT REPLANNING AND LEARNING FOR MULTI-ROBOT TEAMS IN COMPLEX DYNAMIC DOMAINS
Advisor(s): Manuela M. Veloso

EXTENSIONS OF THE PRINCIPAL FIBER BUNDLE MODEL FOR LOCOMOTING ROBOTS
Advisor(s): Howie Choset

ROBOT DESIGN FOR EVERYONE: COMPUTATIONAL TOOLS THAT DEMOCRATIZE THE DESIGN OF ROBOTS
Advisor(s): Stelian Coros, James McCann

DESIGNING INTERACTIVE SYSTEMS FOR COMMUNITY CITIZEN SCIENCE
Advisor(s): Illah R. Nourbakhsh

SENSING, MEASURING, AND MODELING SOCIAL SIGNALS IN NONVERBAL COMMUNICATION
Advisor(s): Taser Sheikh

DOCTOR OF PHILOSOPHY

Sankalp Arora **
Safe Data Gathering in Physical Spaces
Advisor(s): Sebastian Scherer

Matthew John Barnes **
Learning with Clusters
Advisor(s): Artur Dubrawski

Joseph Bartels
Light Sheet Depth Imaging
Advisor(s): Srinivasa Narasimhan, William “Red” Whittaker

Philip Cooksey
Intra-Robot Replanning and Learning for Multi-Robot Teams in Complex Dynamic Domains
Advisor(s): Manuela M. Veloso

Tony Dear *
Extensions of the Principal Fiber Bundle Model for Locomoting Robots
Advisor(s): Howie Choset

Ruta Parimal Desai **
Robot Design for Everyone: Computational Tools that Democratize the Design of Robots
Advisor(s): Stelian Coros, James McCann

Yen-Chia Hsu *
Designing Interactive Systems for Community Citizen Science
Advisor(s): Illah R. Nourbakhsh

Hanbyul Joo **
Sensing, Measuring, and Modeling Social Signals in Nonverbal Communication
Advisor(s): Taser Sheikh

Sung Kyun Kim
Planning Under Uncertainty with Multiple Heuristics
Advisor(s): Maxim Likhachev

Eric J. Markvicka *
Robust Soft-Matter Robotic Materials
Advisor(s): Carmel Majidi

William Campbell Martin
Optimal Control of Compliant Bipedal Gaits and Their Implementation on Robot Hardware
Advisor(s): Hartmut Geyer

Ishan Satish Misra *
Visual Learning with Minimal Human Supervision
Advisor(s): Abhinav Gupta, Martial Hebert

Akshara Rai **
Learning to Learn from Simulation: Using Simulations to Learn Faster on Robots
Advisor(s): Christopher G. Atkeson

Nitish Thatte
Design and Evaluation of Robust Control Methods for Robotic Transfemoral Prostheses
Advisor(s): Hartmut Geyer

Yin Zhang *
Provably Optimal Design of a Brain-Computer Interface
Advisor(s): Steven M. Chase

UNIVERSITY HONORS ☑ COLLEGE HONORS ☑ BOTH
Tepper School of Business

DEAN OF THE SCHOOL
Robert M. Dammon

DEAN OF CARNEGIE MELLON UNIVERSITY IN QATAR
Michael A. Trick

SENIOR ASSOCIATE DEAN, FACULTY AND RESEARCH
Alan Andrew Scheller-Wolf

SENIOR ASSOCIATE DEAN, EDUCATION
Sevin Yeltekin

ECONOMICS PROGRAMS
Christopher Sleet, Head of the Programs

BACHELOR’S BUSINESS ADMINISTRATION
Burton Hollifield, Head of the Program

MASTER’S BUSINESS ADMINISTRATION
Kathryn Barraclough, Head of the Program

MASTER’S BUSINESS ANALYTICS
Willem-Jan van Hoeve, Head of the Program

PH.D. PROGRAM
Nicola Secomandi, Head of the Program

STUDENT-DEFINED MAJORS
Sevin Yeltekin

BUSINESS ADMINISTRATION

BACHELOR OF SCIENCE

Business Administration

- Ommar Laith Aburaddad
  Minor: Economics
- Krish Aggarwal
  Minor: Global Systems and Management
- Kholoud Abdullah Ahmadi
  Minor: Global Systems and Management
- Tamim Masson M. Al-Asfar
  Minor: History
- Aisha Abdulrahman Al-Dosari
  Minor: Global Systems and Management
- Maryam Abdulrahman Al-Dosari
  Minor: Economics
- Sara Abdulla Salem Al-Haj
  Minor: History
- Alreem Nasser Al-Hammadi
  Minor: Arabic Studies
- Pance Muhammad Khamis
  Minor: Economics
- Muhammad Ali
  Minor: Economics
- Amina Yousuf Al-Jassim
  Minor: Global Systems and Management
- Sara Fahad Al-Khalifa
  Minor: History
- Mesned Ali Al-Misned
  Minor: History
- Ali Fahad A.A. Al-Naama
  Minor: History
- Maryam Mohamed Al-Nasr
  Minor: Arabic Studies
- Nasr Jassim N.A. Alnasr
  Minor: History
- Dana Abdulaziz A.A. Al-Obaidan
  Minor: English
- Abdulla Fahad Al-Thani
  Minor: Arabic Studies
- Maryam Sultan Ameen
  Minor: Economics
- Kathryn E. Anderson
  Minor: Innovation and Entrepreneurship
- Anmol A. Bajaj
  Additional Major: Statistics
- Austin P. Barrett
  Minor: Chinese Studies
- Ryan N. Barrett
  Minor: Computer Science
- Andrew Bartusiak
  Minor: Biomedical Engineering
- Sachi Prem Belani
  Minor: Innovation and Entrepreneurship
- Samuel Belaye
  Additional Major: Statistics
- Gregory D. Bellwoar
  Minor: Decision Science
- Preston S. Bryant
  Minor: Global Systems and Management
- Jason M. Caso
  Minor: Decision Science
- Ryan Ho-Lim Chan
  Additional Major: Statistics
- Yi Chen
  Additional Major: Statistics
- Ying Chen
  Additional Major: Human-Computer Interaction
- Sheril Paulin Christopher
  Minor: Global Systems and Management
- William J. Clark
  Minor: Global Systems and Management
- Alex J. Cline
  Minor: Global Systems and Management
- Kevin D. Cory
  Additional Major: Statistics
- Forrest H. Cullings
  Additional Major: International Relations and Politics
- Ezra M. Daniel
  Minor: Decision Science
- Abdulla Al Darwish
  Minor: History
- Cyrine Darwish
  Minor: Economics
- Tyler Davis
  Minor: Global Systems and Management
- Charles Downing
  Additional Major: Statistics
- Madailein Mary Dubrosa
  Minor: Decision Science
- Jin Fang
  Additional Major: Statistics
- Eman Fatima
  Minor: Economics
- Riva Fouzdar
  Additional Major: Human-Computer Interaction
- Alex Froimzon
  Minor: Global Systems and Management
- Leopoldo M. Galvan
  Minor: Music Technology
- Peter W. Geyer
  Minor: Film and Media Studies
- Gabriel J. Gillen
  Minor: Arabic Studies
- Grant C. Gosner
  Minor: Social and Political History
- Arlex Gole
  Additional Major: Human-Computer Interaction
- Anthony Salvatore Gulli
  Minor: Global Systems and Management
- Nisha Gupta
  Minor: Psychology
- Gaurav Gupte
  Additional Major: Ethics, History, and Public Policy
- Michelle Jaeyeon Hahm
  Minor: Global Systems and Management
Mohamed Abdelkader Hamdi
Minor: Economics

Yutong Han
Additional Major: Statistics and Machine Learning

Gunnar Tyler Henning
Minor: Statistics

Rui Hu
Minor: Statistics

Angela Huang
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Maximilian M. Jessen
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Xuan Jiang
Minor: Psychology

Christina Guohua Jin
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Young Min Jin
Minor: Statistics

Simran K. Johanputra
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Carly Jordan
Additional Major: Statistics

Wilson Alling Judy
Additional Major: Statistics

Gunho Jung
Additional Major: Statistics

Akhil Kemburu
Minor: Computer Science

Malika Khanna
Additional Major: Mathematical Sciences (Operations Research and Statistics)

Majdi Fayad Khatib
Minor: History

Jung Eun (Elaine) Kim
Minor: Global Systems and Management

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Hannah Koschmider
Additional Major: Statistics

Karl-Mark Krum
Minor: Global Systems and Management

Barun Kwak
Additional Major: Human-Computer Interaction

Kwun Ip Patrick Lee
Additional Major: Statistics

Sarocha Leelamanthep
Minor: Human-Computer Interaction

David Levin
Minor: Music Theory

Daniel J. Levine
Minor: Technology and Policy

Charles S. Li **
Minor: Economics

Jerry Y. Li
Minor: Economics

John Li
Additional Major: Statistics

Ziling Liao
Additional Major: Statistics

Michael L. Lin
Additional Major: Statistics

Shih-Yu Lin
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Jesse Lu
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Melissa Lu
Additional Major: Economics

Dannielle Lyerly
Additional Major: Psychology

Menatalla Khaled Mahmoud
Minor: Ethics

Roman Makarov **
Minor: Computer Science

Sarah Nasser M.A. Marafih
Minor: Economics

Jennifer J. Mayberger
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Anuja M. Menon **
Additional Major: Statistics

Madihi Menon
Minor: Economics

Stephen D. Mesh
Minor: Sociology

Thomas Samir Michael
Additional Major: Philosophy

Jwoun Min
Additional Major: Statistics

Faisal Rizwan Mir
Minor: Organizational Psychology (Student-Defined Minor)

Maxwell C. Mirho
Minor: Innovation and Entrepreneurship

Jose Mora
Minor: Philosophy

Nicholas A. Moreno
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Kevin A. Mortillaro **
Minor: Statistics

Aishah Ahmad Muhaidi
Minor: History

Allison Mui
Additional Major: Human-Computer Interaction

Anthony Norberto Neves
Additional Major: Statistics and Machine Learning

Adnan Salman Noorani
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Jaspreet S. Pannun
Minor: Economics

Thomas Maxwell Partlo
Minor: Mathematical Sciences

Jerry Peng
Minor: Computational Finance

Spencer Poon
Additional Major: Statistics

Kamari B. Purcell
Additional Major: Statistics

Nandini Radhakrishnan
Additional Major: Statistics

Sudeep V. Raj
Minor: Computer Science

Nishant R. Reniwal
Minor: Computer Science

Alyssa J. Rodriguez
Additional Major: Hispanic Studies

Arturo R. Rodriguez-Reyes **
Minor: Human-Computer Interaction

Daniel X. Rong
Minor: Engineering Studies

Ariana Rudina
Additional Major: Decision Science

Tyler Scanlon
Additional Major: Statistics

Frank Douglas Schenk
Additional Major: Statistics

Shahnoor Semy **
Minor: Global Systems and Management

Tzu-Yu Sheng
Additional Major: Statistics

Zachary M. Sikov
Minor: Decision Science

Jacqueline E. Singer
Additional Major: Social and Political History

Richa Singh
Additional Major: Statistics

Brad A. Steiner
Minor: Global Systems and Management

Haris Saad Syed
Minor: Economics

Patrick Tan
Minor: Media Design

Katie Tang
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Pauline Si Hui Ting
Minor: Chinese Studies

Eileen Jo Walstad
Minor: Biomedical Engineering

Bowen Wang
Minor: Computer Science

Elisa Wang
Additional Major: Statistics

Yi Wen
Additional Major: Statistics

Mingxuan Yi
Minor: Media Design

Amie Wong
Additional Major: Statistics

Samantha Wu
Minor: Psychology

Catherine Xu
Additional Major: Statistics

Grant Y. Xu
Additional Major: Statistics and Machine Learning

Dennis S. Yang
Additional Major: Computer Science

Stephen D. Mesh
Minor: Sociology

Thomas Samir Michael
Additional Major: Philosophy

Jwoun Min
Additional Major: Statistics

Faisal Rizwan Mir
Minor: Organizational Psychology (Student-Defined Minor)

Maxwell C. Mirho
Minor: Innovation and Entrepreneurship

Jose Mora
Minor: Philosophy

Nicholas A. Moreno
Minor: Decision Science

Kevin A. Mortillaro **
Minor: Statistics

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Additional Major: Human-Computer Interaction

Anthony Norberto Neves
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Alyssa J. Rodriguez
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Arturo R. Rodriguez-Reyes **
Minor: Human-Computer Interaction

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Additional Major: Decision Science

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Frank Douglas Schenk
Additional Major: Statistics

Shahnoor Semy **
Minor: Global Systems and Management

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Mingxuan Yi
Minor: Media Design

Amie Wong
Additional Major: Statistics

Samantha Wu
Minor: Psychology

Catherine Xu
Additional Major: Statistics

Grant Y. Xu
Additional Major: Statistics and Machine Learning

Dennis S. Yang
Additional Major: Computer Science

Stephen D. Mesh
Minor: Sociology

Thomas Samir Michael
Additional Major: Philosophy

Jwoun Min
Additional Major: Statistics

Faisal Rizwan Mir
Minor: Organizational Psychology (Student-Defined Minor)

Maxwell C. Mirho
Minor: Innovation and Entrepreneurship

Jose Mora
Minor: Philosophy

Nicholas A. Moreno
Minor: Decision Science

Kevin A. Mortillaro **
Minor: Statistics

Aishah Ahmad Muhaidi
Minor: History

Allison Mui
Additional Major: Human-Computer Interaction

Anthony Norberto Neves
Additional Major: Statistics and Machine Learning

Adnan Salman Noorani
Additional Major: Statistics

Jaspreet S. Pannun
Minor: Economics

Thomas Maxwell Partlo
Minor: Mathematical Sciences

Jerry Peng
Minor: Computational Finance

Spencer Poon
Additional Major: Statistics

Kamari B. Purcell
Additional Major: Statistics
Linda X. Yang  
Additional Major: Statistics and Machine Learning

Yi Yang  
Minor: Architecture

Jae Won Yoon  
Additional Major: Statistics

Zong Chu Austin Yu  
Additional Major: Statistics and Machine Learning

◆ Alvina Binru Zhang  
Minor: Human-Computer Interaction

◆ Karena T. Zhang  
Minor: Chinese Studies

◆ Yi (Jenny) Zhang  
Minor: Decision Science

Quinn R. Zsido  
Minor: Arabic Studies

**INDUSTRIAL ADMINISTRATION**

**MASTER OF BUSINESS ADMINISTRATION**

**Industrial Administration**

Ryan Aditya  
Andrew Adrian-Karlin  
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Rafiq Akhmedi  
Randa Alameh  
Bogdan Andrei Aldea  
Rafael Ivan Angeles Abanto  
Skyler Jans Ansel  
Radhika Arora  
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Cody Lee Beahm  
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Keri Chen  
Ruiqun Chen  
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Steven John Deane-Shinbrot  
David Jacob Deckelman  
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Deeona Deoki  
Robert Andrew Devito  
Sayan Dey  
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Dario Donatelli  
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Randall Jackson Dye  
Ian Michael Eckert *  
Bhanu Sekhar Edupuganti  
Jacqueline Terese Elliott  
Xiaowei Fan *  
Christopher Michael Fedishen  
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Alexander Livingston Fernandez  
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Chang Geng  
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Gabriel Lawrence Gerson  
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Brian Thomas Goveir *  
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Anand Gurumurthi  
Bradley James Gyngell
Mark Thomas Haakenstad
David Louis Hanley
Ryan Beedle Hays **
Yanhua He
Kathryn Leonard Heffernan *
Paul Gerard Heffernan
Kyle Robert Hedin
Gregory Heffernan Heisen
Andrew Kevin Heitmann
Bryan James Henchir
Maximilien Henkart
Kyle Kaku Hicks
Esther Yunling Ho *
Laura Marie Hoffmann
Dewey Karl Holland
Sarah Alexandra Holmes
Jose Ignacio Hortal Fontanet
Ryan Dennis Kumpfmiller
Takayuki Kuriyama
Michael Kurtz
Kenji Kusakawa
Michael Jonathan Lai
Rahul Lakhani
Kyle Langdell
William L. Lee
John Anthony Leon Jr.
Brandon Jeng Leung
Michael Levit
Kevin Li
Wei Lim
John Lin **
Zachary Michael Lippert
Binyi Liu
Jing Liu
Perry Edward Longacre
Victoria Eugenia Lopez
Benjamin Lors
Jia Yan Bryan Lum
Ayush Luthra
Jacob Joseph Mackey
Karina Zhang Magnolllay
Syed Rafay Mahmood
Ashish Maini
Lily Makaeva
Nilvea Odette Malave Torres
Daniel Steven Mark **
William Henry Maston
David Anthony Matthew
Justin Stumpe Mauter
Matthew Stepam McGann
Anuj Mehta
Lindsay Meier
Nunchanok Mekmasin
Kelly Ann Mercer
Daniel Robert Messina
Gregory Mitseas **
Jeffrey Michael Monson
Chi Hwan Moon
Eleanor Taft Mueller
Santanu Mukherjee
Luisa Muniz Felix De Souza
Shaun Michael Murray
Benjamin Daniel Narotsky
Jose Enrique Navas Pineros
Christopher Karl Neander *
Rachel Ann Neice
Bryan Gabriel Nifong
Hirokazu Nishiuchi
Keith Byrne Norman Jr.
Andika Putra Nugroho
Nalat Opasiamkajorn
Jesus Manuel Ortiz
Betty Cheng-Yu Ou
Nicole Elizabeth Paladino
Paul In-Soon Park
Thomas Maxwell Partlo
Sankeethana Pasupathi
Dipen Pravinbhai Patel **
Priya Patel
Puja Vihang Patel
Purvil C. Patel
Ravi Patel
Gabriel Eduardo Perez
Ehsan Pesaran Afsharian
Michael John Peterson IV *
Brandon Raymond Pochatila
Joseph M. Poerio
Aderemilekun Aisha Popoola
Daniel Marcus Poyer
Alia Rafiq
Yoganandan S. Rajan **
Arun Ramasami
Siddharth Ramkumar
Deepak Dhanavel Kumar Ravi Kumar
Thomas Mack Reeves
John Frederick Reim
Leland Louis Remson
Kevin Albert Rentler
Esme Marie Rhine
Rana Ashraf Riad
Reza Ahmed Ridwan
Brian Andrew Roberts
Jessica Shea Rodden
Larnelle Jacee Rogers
Matthew Ryan Romeike
Isabel A. Roscoe
Marc Jason Rosenberg
Henry Valentine Rossoff
Anushmita Roy Choudhury
John Michael Russo
Sang Yeob Ryu
Tilak Reddy Sagireddy **
Amit Kumar Sahu
Khushwant Saini
Kunal Sakhuja
Crystal Antoinette Sanchez
Keteki Saoji
Pallavi Saxena
Niraj Kamlesh Shah **
Kshitij Sharma
Sudeep Vinod Sharma
Peter C. Sheh **
Xin Shen
Chris Woo Yong Shin
Irfan Siddiqui
Brian David Sigal
Samik Nath Sil
### COLLEGE DEGREE LISTINGS

**MASTER OF SCIENCE**

**Economics**
- Majid Mahzoon
- Xuege Zhang

**Industrial Administration (Accounting)**
- Cagla Akin
- Zhaoru Wang

**Industrial Administration (Algorithms, Combinatorics and Optimization)**
- Su Jia
- Thomas Jose Lavastida

**Industrial Administration (Finance)**
- Zahra Ebrahimi
- Diana George Zaki Mikhail

**Industrial Administration (Operations Management)**
- Musa Eren Celdir

**Industrial Administration (Operations Research)**
- Xinying Chen
- Sagnik Das
- Ozgun Elci
- Jingyi (Kyra) Gan
- Zeynep Melda Korkut
- Yuyan Wang

### DOCTOR OF PHILOSOPHY

**Johannes Gerhardus Benade**
- Equity and Efficiency in Computational Social Choice
  Advisor(s): John Hooker, Ariel Procaccia

**Julian Louis Givi**
- Social Norms in Gift Giving: A Comprehensive Theory for Giver-Recipient Discrepancies in Gift Selection
  Advisor(s): Jeff Galak

**Nam Ho**
- Competition in the Market for Assurance Services
  Advisor(s): Thomas Ruchti, Jack Stecher

**Hung Nam Ho-Nguyen**
- Models and Efficient Algorithms for Convex Optimization under Uncertainty
  Advisor(s): Fatma Kilinc-Karzan

**Hyun Hwang**
- Essays on Corporate Disclosure and Organizational Structure
  Advisor(s): Carlos Corona, Pierre Jinghong Liang

**Yang Jiao**
- Algorithms for Ranking and Routing Problems
  Advisor(s): R. Ravi

**Eungik Kim**
- Three Essays in the Stochastic Overlapping Generations Models
  Advisor(s): Stephen Spear

**Ryo Kimura**
- Modern Methodologies for Practical Discrete Optimization
  Advisor(s): Willem-Jan van Hoeve

**Dabeen Lee**
- Cutting Planes and Integrality of Polyhedra: Structure and Complexity
  Advisor(s): Gerard Cornuejols

**Siyu Lu**
- Essays on Bank Competition and Regulation
  Advisor(s): Burton Hollifield, Stephen Karolyi

**Anna Theresa Mayo**
- Dynamic Teams: Exploring the Enabling Conditions and Outcomes of Coordination
  Advisor(s): Anita Woolley

**Megan O’Malley**
- Three Essays on Medicare Quality Initiatives
  Advisor(s): Karam Kang, Yaroslav Kryukov

**Minyoung Rho**
- Implementation of the Deferred Acceptance Algorithm in School Choice Application
  Advisor(s): Robert A. Miller

**Zijun Shi**
- Essays on Technology-Driven Marketing
  Advisor(s): Kannan Srinivasan

**Siddharth Prakash Singh**
- Regulation and Management of Innovative Technologies
  Advisor(s): Alan Andrew Scheller-Wolf

**Benjamin John Tengelsen**
- Essays on Credit Frictions, Market Expansion and Strategic Team Production
  Advisor(s): Sevin Yeltekin

**Phong Truong**
  Advisor(s): Stephen Karolyi

**Wenjie Xue**
- Essays on Mandatory Disclosure and Enforcement
  Advisor(s): Carlos Corona, Pierre Liang

**Shunyuan Zhang**
- A Structural Analysis of Sharing Economy Leveraging Location and Image Analytics Using Deep Learning
  Advisor(s): Param Singh, Kannan Srinivasan

### STUDENT-DEFINED MAJORS

**BACHELOR OF SCIENCE**

**Applied Technology Management**
- Roshan N. Sriram

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**GRADUATED 14-AUG-2018 ** GRADUATED 19-DEC-2018
University-Wide, Intercollege and Joint-Degree Programs

Carnegie Mellon University
ENTERTAINMENT TECHNOLOGY CENTER
Drew Davidson, Director

INTEGRATED INNOVATION INSTITUTE
Peter Boatwright, Director

College of Engineering and College of Fine Arts
ARCHITECTURE-ENGINEERING-CONSTRUCTION MANAGEMENT PROGRAM
Erica Cochran Hameen, Track Chair

College of Engineering and Tepper School of Business
SOFTWARE MANAGEMENT PROGRAM, SILICON VALLEY
Gladys Mercier, Director

College of Fine Arts and Dietrich College of Humanities and Social Sciences
HUMANITIES AND ARTS PROGRAM
M. Stephanie Murray, Director

College of Fine Arts and Heinz College of Information Systems and Public Policy
ARTS MANAGEMENT PROGRAM
Kathryn Heidemann, Director
ENTERTAINMENT INDUSTRY MANAGEMENT PROGRAM
Daniel Green, Director

College of Fine Arts and Mellon College of Science
SCIENCE AND ARTS PROGRAM
M. Stephanie Murray, Director

College of Fine Arts and School of Computer Science
COMPUTER SCIENCE AND ARTS PROGRAM
M. Stephanie Murray, Director

Dietrich College of Humanities and Social Sciences, Heinz College of Information Systems and Public Policy, Mellon College of Science and Tepper School of Business
COMPUTATIONAL FINANCE PROGRAM
Duane Seppi, Head
Richard L. Bryant, Executive Director

Dietrich College of Humanities and Social Sciences and Mellon College of Science
SCIENCE AND HUMANITIES SCHOLARS PROGRAM
William Alba, Director

Mellon College of Science and School of Computer Science
COMPUTATIONAL BIOLOGY PROGRAM
Christopher Langmead and C. Joel McManus, Co-Directors

School of Computer Science and Tepper School of Business
PRODUCT MANAGEMENT PROGRAM
Gregory Coticchia, Executive Director
Jason Hong, Faculty Advisor
Robert T. Monroe, Faculty Advisor

Carnegie Mellon University
ENTERTAINMENT TECHNOLOGY CENTER

MASTER OF ENTERTAINMENT TECHNOLOGY

Yujin Ariza
Axel Aaron Arth
Mohan Bai
Caleb Rogers Biasco
Naomi Samantha Burgess
Omar S. Cheikh-Ali
Cheung Tai Ching
Raisa Nazah Chowdhury
Joshua David Danzig
Jared Ettinger
Justin Fanzo
Qi Qi Feng
Matthew Eugene Floyd
Alexandra Zoe Gobeler
Atul Goel
Rajat Gupta
Yanran Han
Iris Hwang
Niharika Jain
Shan Jiang
Yein Jo
Srujani Kamineni
Sahar Kausar
Bryan Kim
Eunkyeol Kim
Wonjae Kim
Apoorva Kuduvalli Ramesh
Nisha Kunhikrishnan
Jie-Yu Lee
Kangyan Li
Yu Li
Yunhao Li
Danke Luo
Fangda Luo
Guande Lyu
Ke Ma
Ketul Nimesh Majmudar
Sudha Manigundam Raghavan
Qianye Mei
Vasant S. Menon
Thao Huong Nguyen
Euna Faith Park
Seon Woo Park
Erhan Qu
Bidima Ramesh
Miao Ren
Sijie Ren
Siyu Ren
Rachel Elise Rodgers
Jehan Singh Sandhu
Urvil Shah
Dustin Nicholas West Stephan
Trisha Pradeep Surve
Ruili Tang
Himanshu Anirudha Telkikar
Richard F. Tucker
Alan Thomas Turner
Meng Wan
Shuo Wang
Xuejun Wang
Jacob Kieran Wilson
Daniel Evan Wolpow
Hyun Jong Won
Mengqi Wu
Guanghao Yang
Victoria JaeWon Yom
Yuqiao Zeng
Yutong Zhang
Tianyi Zhao
Yifei Zhao
Yutian Zheng
Xuefan Zhou
Chaojie Zhu
Yidi Zhu
Zeynep Olcer
Kasandra Price
Sanjaykumar Ranganayakulu
Ryan D. Stinebaugh
Chun Wang

**MASTER OF INTEGRATED INNOVATION FOR PRODUCTS AND SERVICES - ADVANCED STUDY**

*Integrated Innovation for Products and Services*

Nandita Adityan **
Michael Brough **
Hongyu Chen **
Janice Chen **
Mark Estaban Davidson **
Xitong Deng **
Hua Fan **
Benjamin Evan Fisher **
Sarthak Giri
Xinyi Guo **
Shenghui Jia **
Hyung Woo Kim **
Anna Lawn **
Kashyap Nishtala **
Manchit Rajani **
Gokul Narasimhan Suryamurthy **
Cansu Tanatmis **
Vignesh Venkatachalam **
Xiaolin Yang **
Hanyuan Zhang **
Kedi Zhang **
Xi Zhang **

**MASTER OF SCIENCE**

*Software Management*

Rashmi Ashtaker
Kevin Charles Athey
Anamika Batra
Yi-Chih Chan *
I-Chao Chen *
Junhan Chen
Marina Cholakyan *
Karl Jason Enguerra
Liangyi Fan
Jiejun Gu **
Maria Patrice Hall *
Kai-Neng Hsu **
Xiaobo Jia **
Biju Joseph Jacob *
Sang Soo Jun **
Krishna Chakra Karanam *
Chen Li **
Xiangning Li **

**Technology Ventures**

Aamod Garg
Sarah Elsie Georges
Nicholas Latwis
Zhenyang Li
Dong Qin
Hanna Brooke Salis
Alexander Schindler
Yumin Yan
Shuhao Yang

**STUDENT-DEFINED MAJORS**

*BACHELOR OF SCIENCE*

*Product Realization*

Rachel Akiko Nakamura *
College of Engineering and College of Fine Arts

ARCHITECTURE-ENGINEERING-CONSTRUCTION MANAGEMENT PROGRAM

MASTER OF SCIENCE IN ARCHITECTURE-ENGINEERING-CONSTRUCTION MANAGEMENT

Patrick Byrne
Arnab Choudhry **
David Cleaves
Asli Selay Darga Ozutemiz **
Safiya Hodari **
Damini Mathur **
Julie Miller
Elif Deniz Oguz Erkal **
Ankita Patel **

College of Fine Arts and Dietrich College of Humanities and Social Sciences

HUMANITIES AND ARTS PROGRAM

BACHELOR OF HUMANITIES AND ARTS

Anna Jamieson Beck
Politics & Public Policy and Drama
Minor: Professional Writing

Brian Bizier
Creative Writing and Drama

Carolyn Chheath
Cognitive Science and Design

Anne Crumley
Statistics and Art
Additional Major: Social and Political History

Chloé Desaulles
Cognitive Neuroscience and Art
Minor: Intelligent Environments

Archana Goparaju
Ethics, History, & Public Policy and Art

Shuangni Huang
Decision Science and Art
Additional Major: Human-Computer Interaction

Grace Tegan Huddleston
Global Studies and Art
Minor: Hispanic Studies
Antonia A. James
Logic & Computation and Art

Bo Young Kim
Ethics, History, & Public Policy and Art
Additional Major: Human-Computer Interaction

Hilary Duany Lai
Psychology and Design

Kevin Lee **
Global Systems & Management and Music Performance
Minor: Human-Computer Interaction

Renee Marie Madrigal
Anthropology and Drama

Abby Nicole Mandracchia
Cognitive Neuroscience and Music Performance

Yoon Seo Mok **
Cognitive Science and Art
Minor: Animation and Special Effects

Gabriella M. Orbach **
Cognitive Neuroscience and Music Performance

Christine Jia En Phang
Psychology and Art
Minor: Religious Studies

Coby Antonio Rangel
Cognitive Neuroscience and Music Performance
Minor: Sound Design

Stefan Reid Romero
Social & Political History and Drama

Juliana Pinzon Schnerr
Creative Writing and Design

Yong Xin See
Decision Science and Art

Paloma Sierra Hernández
Creative Writing and Drama
Minor: Hispanic Studies

Soosin Sohn
Global Systems & Management and Art
Minor: Animation and Special Effects

Minjung Suh
Economics and Art

College of Fine Arts and Heinz College of Information Systems and Public Policy

ARTS MANAGEMENT PROGRAM

MASTER OF ARTS MANAGEMENT

Arts Management

Ashley Anderson Kowach
Len Ayers
Yu Cao
Adelina Teresa Chavez
Lauren Cornwell
Katherine Marie Culler
Jana Kay Fredricks **
Annessha Ganguy *
Karyme Garzon Mahmud

Rebekah Hope Geiselman
Olivia Jane Grabowsky **
Emily Rose Halpern
Kristin Eileen Helfrich
Qinglu Lu
Santiago Martinez Gonzalez
Lucy Mattout Mizrahi
Allison Anne Pichowicz
Robina Saha
Lauren Ashley Saunders
Christine Ann Senavsky
Tara Ashley Snyder
Jonathan David Spangler
Jennifer Lynn Wallisch
Yunzi Wang
Katina Phyllis White

MASTER OF ENTERTAINMENT INDUSTRY MANAGEMENT

Entertainment Industry Management

Laila Elizabeth Archuleta
Arzoo Bahl
Valentine O. Banor
Mingyu Bian
Abby Katherine Botnick
Carina Catherine Carbeta
Xueying Cheng
Olivia Catherine Green
Mengting Han
Emmalee Catherine Helms
Daniel Christopher Hoyt
Kristine Marie Klixbull
Ryan A. LaBarbera
Jingyuan Li
Chang-Hui Liu
Alyson Blaine Loutzenhisser
Paul Charles Luckenbaugh
Victoria Kaitlyn Martinez
Varnell Wendell Moffett II
Emily Ann Nees
Youqi Pu
Edmond Raymer
Joan Rodriguez
Mary Katherine Rousseau
Todd William-Holden Tuchek
Colin Shiro Vasick
Elaine Yiran Zhang
COLLEGE DEGREE LISTINGS

College of Fine Arts and Mellon College of Science

SCIENCE AND ARTS PROGRAM

BACHELOR OF SCIENCE AND ARTS

- Parley P. E. Belsey
  Neurobiology and Art
- Odelia A. Cheng
  Biological Sciences and Art
- Brandon G. Foster
  Biological Sciences and Music Performance
- Mauricio R. Gil-Silva
  Neurobiology and Music Technology
- Esther C. Lee
  Biological Sciences and Music Performance
- Shelby Zasacky
  Mathematical Sciences and Art
  Minor: Computer Science

College of Fine Arts and School of Computer Science

COMPUTER SCIENCE AND ARTS PROGRAM

BACHELOR OF COMPUTER SCIENCE AND ARTS

- Léann J. Bahi
  Computer Science and Art
  Minor: Human-Computer Interaction
- Rebecca A. Groves
  Computer Science and Art
- Dayoung Kwon
  Computer Science and Music Technology
  Minor: Physics
- Kearnie Lin
  Computer Science and Art
- Xinyi Wang
  Computer Science and Drama
- Kristin Yin
  Computer Science and Art

Dietrich College of Humanities and Social Sciences and Mellon College of Science

SCIENCE AND HUMANITIES SCHOLARS PROGRAM

BACHELOR OF ARTS

- Ambika Chetal
  Chemistry
  Minor: Business Administration
- Lisha Yin
  Economics
  Minor: Social and Political History

Kyle A. Beyer
Spyridon Chandrinos
Weiao Ding
Robin Dreizer
Yunan Duan
Lucas Duarte Bahia
Nicholas Eterovic
Nicholas Frost
Jordan Giebas
Zhihan Gu
Bochen Guo
Mingzhe Guo
Tushar Gupta
Xipu Han
Fengge Hu
Yang Hu
Xinhui Huang
Eric Jian
Yunqing Jin
Sail Kim
Eloy Lanau Rosello
Miaojuan Lang
Yunyao Li
Zhongyang Li
Haichuan Liang
Ka Iek Lin
Shiqi Lin
Guannan Liu
Ruochong Liu
Sidi Liu
Yundong Liu
Yuze Liu
Shangshang Long
Yingjie Lu
Zhou Lu
Yilie Ma
Zhusong Mei
Siliang Ni
Yuze Qiu
Haochen Rui
Daniel Camilo Rojas Coy
Xue Rong
Richard Martin Rosenbaum
Rui Shen
Zhongwei Shi
Justin Skillman
Skander Soltani
Haoze Song
Wen Shuo Song
Elizabeth Sumner
Bin Sun
Qi Sun
Hiroyuki Toda
Chi-Feng Tsai
Hanzhe Wan
Li Wang
Tianjiao Wang
Weizhou Wang
Xinran Wang
Ran Wei
Hao Wen
Ge Wu
Mingxuan Wu
Shuying Wu
Yurong Xia
Mengda Xu
Qiyang Xu
Li Yan
Linglong Yan
Haiyiin Yang
Wangshu Yang
Yang Yang
Ze Yang
Mengjia Yi
Kaile Yin
Yan Yu
Risheng Zeng
Welli Zhang
Xiao Zhang
Xingsi Zhang
Yixin Zhang
Yumeng Zhang
Yuyao Zhang
Zhaohui Zhang
Zhiyi Zhang
Lei Zhao
Yuting Zhao
Dayu Zhong
Fangjwu Zhou
Jianing Zhu

Dietrich College of Humanities and Social Sciences and Mellon College of Science

COMPUTATIONAL FINANCE PROGRAM

MASTER OF SCIENCE

Yue Ao
BACHELOR OF SCIENCE

Rebeka Csilla Almasi *
Cognitive Science
Minor: Philosophy
Matthew Lee Baek **
Policy and Management
Additional Bachelor of Science Degree: International Relations and Politics

Orchi Banerjee
Decision Science
Minor: Arabic Studies
Additional Bachelor of Science Degree: Business Administration

Eric B. Barrett
Mathematical Sciences
Dual Degree: Physics

Allison Abatelli Black
Mathematical Sciences (Computational and Applied Mathematics)
Additional Major: French and Francophone Studies
Minor: Statistics

Alisa Chang **
Mathematical Sciences (Computational and Applied Mathematics)
Minor: Computer Science

Jae Eun Choi
Statistics and Machine Learning

Audrey S. Cortes
Statistics
Additional Major: Decision Science

Hongyi Ding **
Mathematical Sciences (Operations Research and Statistics)
Additional Major: Computer Science

Wenyi Fei
Mathematical Sciences and Economics
Minor: Computational Finance

Holly Furnari
Neuroscience

Charlie H. Gu
Mathematics (Discrete Mathematics and Logic)

Alexandra L. Halberstadt
Biological Sciences and Psychology

Natalie Hearty
Cognitive Science

Irina R. Jawed **
Statistics and Machine Learning

Hadley R. Killen
Mathematical Sciences (Computational and Applied Mathematics)
Minor: Computer Science

Jane V. Kogan
Biological Sciences and Psychology

Hunter Chase Kready
Biological Sciences and Psychology

Stephanie Ying-Lei Kuang
Chemistry

Rissa Lee **
Cognitive Science

Andy Z. Lin
Statistics and Machine Learning

Roosha Mandal
Biological Sciences
Additional Major: Creative Writing

Maxwell F. Martin **
Biological Sciences
Additional Major: Social and Political History

Lauren Maria Nazzaro
Biological Sciences
Minor: Biomedical Engineering

Zachary A. Roop
Economics and Statistics
Minor: Social and Political History

Gabriela Salcedo **
Physics

Anoushka Saxena
Mathematical Sciences (Computational and Applied Mathematics)
Minor: Computer Science
Minor: Economics

Qian Sha
Economics and Statistics

Margaret D. Slevin
Social and Political History
Additional Major: Psychology

Wyatt Robert Swift-Ramirez
Chemistry

Victoria L. Van Benschoten
Chemistry/Biological Chemistry Track
Minor: Creative Writing

Harika C. Vedati *
Mathematical Sciences (Statistics)

Claire Wang **
Psychology

Shitian Wang
Statistics
Additional Major: Human-Computer Interaction
Minor: Design

Xinmi Wu
Mathematical Sciences and Economics
Minor: Business Administration
Minor: Statistics

Brenda Xiao
Computational Biology
Minor: Creative Writing

Jingjing Xu
Mathematical Sciences (Discrete Mathematics and Logic)
Additional Major: Computer Science

Shenheng Xu
Economics and Statistics
Minor: Business Administration

Ruichao Ye
Physics

Hyunho Yoon
Psychology
Additional Major: Creative Writing

Michael Young
Neuroscience
Minor: Biomedical Engineering

Nan Zhang
Biological Sciences
Minor: Computer Science
Minor: Neural Computation

Jennifer L. Zhuge **
Statistics and Machine Learning

Mellon College of Science and
School of Computer Science

COMPUTATIONAL BIOLOGY
PROGRAM

BACHELOR OF SCIENCE

Computational Biology

Youssef Kanbour

MASTER OF SCIENCE

Computational Biology

Xiaoyue Cui
Ziyi Cui
Xiaoqi Fang
Saiddeep Rao Gona
Sarah Hsu
Xinyu Huang
Meaghan Kennedy
Kwanho Kim
Deepank R. Korandla **
Mo Li
Xinling Li
Jiachen Liu
Jinke Liu
Sumin Wang **
Brendan Wee
Caryn Willis
Yuting Xiao
Yiwen Xu
Zhenyu Yang
Mengxin Zhang
Yuheng Zhang

Product Management

Zhiwei Cai **
Anshum Garg **
Morgan Nelson Greenleaf **
Vivek Kant Indrany **

School of Computer Science and
Tepper School of Business

PRODUCT MANAGEMENT
PROGRAM

MASTER OF SCIENCE

Product Management

Jennifer L. Zhuge **
Statistics and Machine Learning
**SPECIAL RECOGNITIONS**

**Honor Society Inductees and ROTC Officer Commissioning**

**ALPHA IOTA DELTA**

Alpha Iota Delta, the International Honor Society in Information Systems and Decision Sciences was founded in 1971. The purposes of Alpha Iota Delta are to confer distinction for academic excellence; to promote fellowship among students, faculty and administrators who share common professional interests; and to promote the application of the tools, concepts and methodologies of Information Systems and Decision Sciences toward the betterment of society. Alpha Iota Delta elects students to membership based on two key criteria: academic excellence and outstanding campus citizenship. The Carnegie Mellon University chapter was established in 2008.

Karan Bokil  
Christie Chang  
Tiffany Chen

**ANDREW CARNEGIE SOCIETY**

Andrew Carnegie Society (ACS) Scholars are selected each year by their deans and department heads to represent their class in service and leadership. These undergraduate seniors embody Carnegie Mellon's high standards of academic excellence, volunteerism, leadership, involvement in student organizations, athletics and the arts. Since its inception in 1975, the program has recognized over 1,000 students. Each ACS Scholar receives a monetary award — made possible by the generosity of ACS members — that supports their academic and personal growth. Additionally, they work together as a committee to present a gift back to the university community. Through this opportunity, the students experience the joy of philanthropy firsthand.

Michelle Bai  
Gaurav Balakrishnan  
Gabriel Bamforth  
Orchi Banerjee  
Christina Banuelos  
Eric Barrett  
Sarah Boyle  
Mari-Therese Burton  
He Jin Cha  
Wai Sing Ching  
Anne Crumley  
Jack Dangremond  
Yilin Dong  
October Donoghue  
Aisha Fakhroo  
Jack Forman  
Seth Henry  
Angela Huang  
Calvin Hubbard  
Grace Huddleston  
Anne Kohlbrenner  
Kimberly Lamberti  
Christopher Lee  
Jasmine Lesane  
Kelly Li  
Izabela Litwin  
Jeanne Luning Prak  
Margaret Sophia Mertz  
Valene Mezmin  
Mason Miles  
Lauren Mueller  
Sydney Rosin  
Zachary Snow  
Bridget Soderna  
John Verser  
Elisa Wang  
Serena Wang  
Yu Wu  
Moussa Zekak  
Quchen Zhou

**BETA GAMMA SIGMA**

Beta Gamma Sigma, the international business honor society, recognizes outstanding academic achievement. It was founded in 1913 and serves business programs accredited by AACSB International — the Association to Advance Collegiate Schools of Business. Membership in Beta Gamma Sigma provides graduates with opportunities to network with other outstanding business leaders throughout the nation. Carnegie Mellon's chapter was established in 1983.

Kathryn Anderson  
Carly Jordan  
Sarocoa Leelamanthep  
Izabela Litwin  
Anuja Menon  
Megan Seiler  
Elisa Wang  
Grant Xu

**PHI BETA KAPPA**

Founded in 1776, Phi Beta Kappa is the nation's oldest and largest academic honor society, recognizing outstanding achievement in the liberal arts and sciences. Carnegie Mellon's chapter was established in 1995.

Orchi Banerjee  
Eric Barrett  
Anna Jamieson Beck  
Sarah Boyle  
Alisa Chang  
Yi Chen  
Ricson Cheng  
Anne Crumley  
Forrest Cullings  
Chloé Desaulles  
Bryan Ding  
Yilin Dong  
Alex Fernex  
Emma Flickinger  
Brandon Foster  
Madeline Gardner  
Amelia Gilson  
Evon Glauberman  
Zachary Goldstein  
Alexandra L. Halberstadt  
Derek Hamersly  
Yutong Han  
Ian Holst  
Rebecca Jesurum  
Jessica Jue  
Yijin Kang  
Prerana Katiyar  
Eri Kavanagh  
Bo Kim  
Anne Kohlbrenner  
Stephanie Kuang  
Esther Lee  
Mengze Li  
Izabela Litwin  
Jason Ma  
René Madrigal  
Margaret Sophia Mertz  
Hera Miao  
Cameron Montag  
Amadou Ngom  
Gabriella Orbach  
Paige O’Riordan  
Jia En Phang  
Nadia Razek  
Margaret Reager  
Nicholas Roberts  
Stefan Romero  
Sydney Roslin  
Zachary Snow  
Bridget Soderna  
John Verser  
Elisa Wang  
Xini Wu  
Xinyu Wu  
Yu Wu  
Grant Xu  
Yue Xu  
Muyu Yang  
Hyunho Yoon  
Huiwen Zhang  
Katherine Zhang  
Nan Zhang  
Xiaorong Zhang  
Yixiu Zhao  
Emily Zhu

Matthew Salim  
Juliana Schnerr  
Yong Xin See  
Megan Seiler  
Qian Sha  
Sarah Simon  
Zachary Snow  
Isabella Starvaggi  
Victoria Van Benschoten  
John Verser  
Elisa Wang  
Xini Wu  
Xinyu Wu  
Yu Wu  
Grant Xu  
Yue Xu  
Muyu Yang  
Hyunho Yoon  
Huiwen Zhang  
Katherine Zhang  
Nan Zhang  
Xiaorong Zhang  
Yixiu Zhao  
Emily Zhu
PHI KAPPA PHI

Founded in 1897 at the University of Maine, Phi Kappa Phi is an honor society that draws its members from all academic disciplines. The society’s mission is “to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others.” Carnegie Mellon's chapter was established in 1933.

Zainab Akhtar
Mohammed Yusuf Ansari
Mahima Arya
Fahad Bahzad
Alexander Baikovitz
Gaurav Balakrishnan
Karan S. Bokil
Sarah Boyle
Victoria R. Brichter
Kaimeng Cao
Hanyue Chai
Christie Chang
Ambika Chetal
Sheril Christopher
Sihan Dong
Puja Dutta
Leah J. Ettenson
Michael Fernandez
Jack A. Forman
Brandon G. Foster
Angela Gao
Xining Gao
Caleb Glickman

Mohamed Abdelkader Hamdi
Rui Hu
Haoqian Huang
Prerana Katiyar
Muhammad N. Khan
Samantha J. Locraft
Michael Lohmeier
Richard J. Lozano
Tristan Marino
Parker Mellott
Margaret Sophia Mertz
Michael Messersmith
Xuanyu Leon Min
Syed R. Mohideen
Haider A. Nazir
Carolyn Neiderlander
Emma Nicklas-Morris
Anne Noonan
Olivia Olsheski
Emma Parks
Christine Jia En Phang
Krishna M. Raman
Andrew Rosenfeld
Aliya N. Saffran
Anna L. Schulz
Qian Sha
Margaret D. Slevin
Rachel R.
Sneeringer
Zachary Sussman
Mark Tamvakis
Alana Toy
Amy Tsai
Isabella J. Vendetti
Thomas Serban
Von Davier
Siyao Wang
Xinxi Wu
Yue Xu
Hyunho Yoon
Isabel C. Yoon
David L. Zhang
Zefeng Zhang

SIGMA XI

Sigma Xi is an international research society whose programs and activities promote the health of the scientific enterprise and honor scientific achievement. In addition to honoring scientific achievement, Sigma Xi also endeavors to encourage support of original work in science and technology, and to promote an appreciation within society at large for the role research has played in human progress.

Vineetha Bheemarasety
Akari Kumagai
Cameron Montag

Diamond Moody
Xiaofei Shi
Hannah Smith

TAU BETA PI

Founded in 1885, Tau Beta Pi is the nation’s second-oldest academic honor society and is the only honor society representing members of the entire engineering profession for distinguished scholarship and exemplary character. Carnegie Mellon’s chapter was established on February 19, 1916, at Carnegie Tech.

Michelle Bai
Gaurav Balakrishnan
Ronit Banerjee
Gabriel Bay
Victoria Brichter
Emily Broude
Mari-Therese Burton
Kevin Cai
Wenting Chang
Regine Choi
Theodore Chou
Kevin DeVincenitis
Jack Forman
Raymond Galeza
Angela Gao
Baunak Sanjay Gupta
Sunjeew Kale
James Kromka
Kimberly Lamberti
Nicholas Lamprinakos
Christopher Lee
G. Ping Lee
John Lenney
Christopher Littrell
Hannah Loy
Zack Masiopinto
Jack McCambridge
Michael Messersmith

George Miller
Leon Min
Mimi Nious
Anne Noonan
Alex Noring
Allison Scibisz
Grant Seastream
Morgan Stanley
Clement Wong
Samantha Wong
Stephanie Wong
Michael You
Boyao Yu
Justine Zeller
Zheyao Zhu

ROTTC OFFICER COMMISSIONING

U.S. Air Force
2LT Matteo Longo
2LT Isabela Murdock

U.S. Air Force
2LT Isabela Murdock

U.S. Marine Corps
2LT Evan Glauberman

U.S. Navy
Ens参赛 Cortelligens
Ensign Frank Schenk
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Ensarg Lawrence Wu
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