WPI

The One Hundred Fifty-Fourth

COMMENCEMENT

GRADUATE CEREMONY

Five O' Clock • Thursday the Eleventh of May
Two Thousand Twenty-Three

WPI Quadrangle

WORCESTER POLYTECHNIC INSTITUTE


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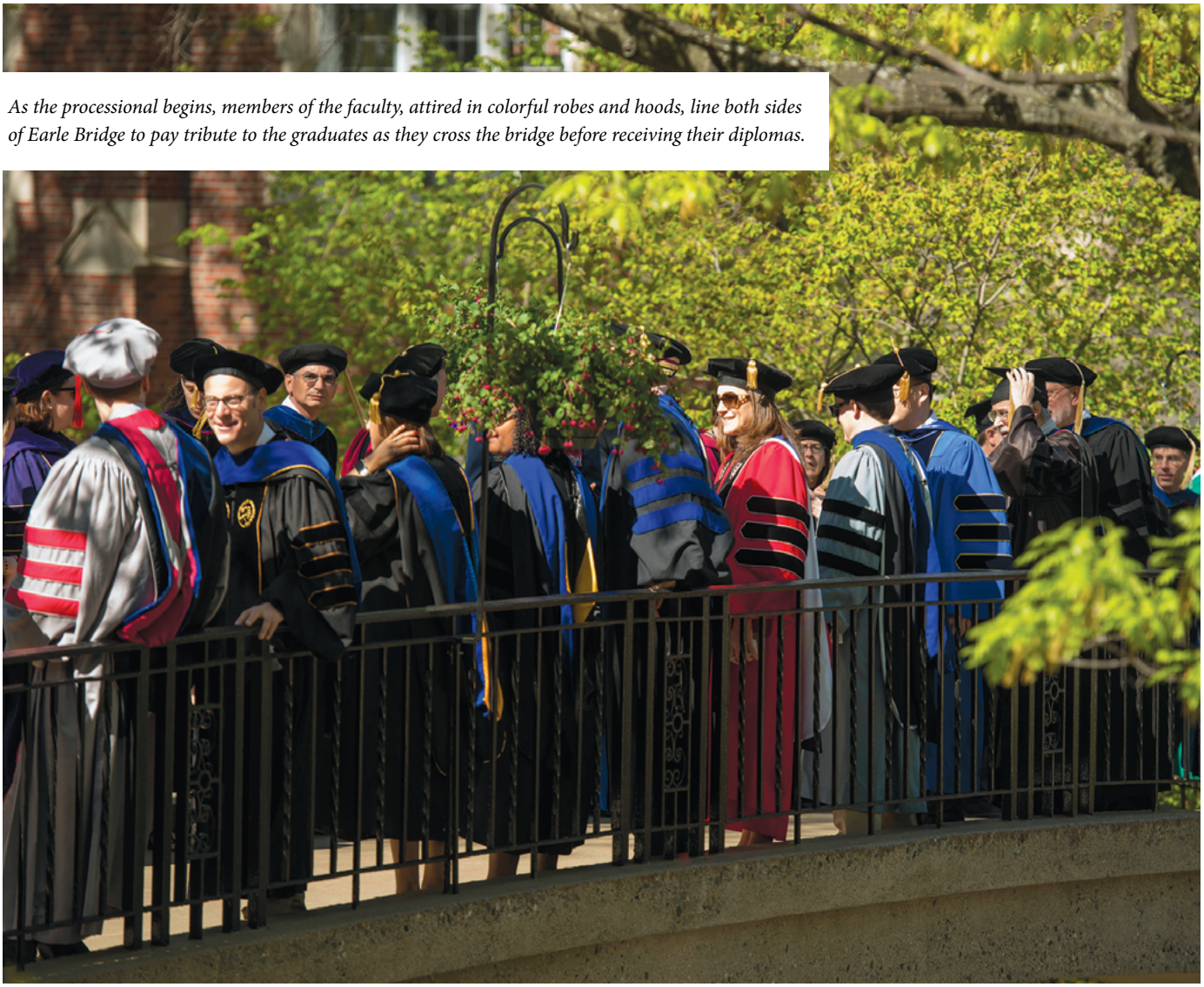
GRADUATE CEREMONY PROGRAM

Prelude	WPI Brass Ensemble, Douglas Olsen, Conductor
Processional	Led by the Honorary Marshal *Full details begin on page 5*
Call to Order Led	Jeanine Skorinko, Honorary Marshal
National Anthem	WPI Chorus Joshua W. Rohde, Conductor & Sophia Cheng, Student Conductor *The audience is invited to join in the singing*
Charge from the President	Grace Wang
Student Remarks	"Our WPI Graduate Degree: Story of Grit" Mahvash Jebeli
Recognition of Faculty Award Recipients	William A. Fitzgerald
Conferring of Honorary Degrees	President Wang
Commencement Address	Catherine Ball, PhD
Presentation of Candidates for Degrees	Terri A. Camesano, Dean of Graduate Studies
Conferring of Degrees	President Wang
Remarks from the Alumni Association	Paula Delaney '75, President
Recessional	WPI Brass Ensemble

The audience is requested to remain standing until the end of the national anthem.
At the conclusion of the Commencement exercises, the audience is requested to remain standing until the academic procession has left the Quadrangle.



As the processional begins, members of the faculty, attired in colorful robes and hoods, line both sides of Earle Bridge to pay tribute to the graduates as they cross the bridge before receiving their diplomas.

A FEW NOTES ABOUT THE COMMENCEMENT CEREMONIES

In a practice inaugurated in 2016, WPI is awarding undergraduate and graduate degrees at separate spring Commencement ceremonies. Master's and PhD degrees will be presented on Thursday evening, May 11; bachelor's degree recipients will receive their diplomas on Saturday morning, May 13.

Several longstanding campus traditions infuse the WPI spirit, two of which will be in evidence during today's Commencement ceremony. Crossing Earle Bridge is one of the oldest. To visitors, the bridge is a lovely pathway connecting the east and west sides of campus. For students, the span plays a symbolic role at the start and end of their WPI careers. Traditionally, students cross the bridge as an entire class at Convocation and at Commencement.

Another tradition involves the WPI seal in the center of the Quad. Throughout their time at WPI, students make a point of walking around the seal, for it is said that students who step directly on the landmark won't graduate on time. That this tradition is upheld is most evident during the snowy winter months. After years of avoidance (not to mention years of hard work and intense studying), each graduate will walk directly over the seal as part of their commencement ceremony.

PROCESSIONAL AND RECESSIONAL

Students begin lining up at 3:30 pm for the processional, which steps off at approximately 4:35 pm (the ceremony itself starts at 5:00 pm). Originating at Harrington Auditorium, the processional winds through the campus, crosses Earle Bridge, follows the sidewalk past Alden Memorial, moves onto the walkway behind Bartlett Center, turns at the Proud Goat statue, and proceeds up the center aisle under the tent.

At the conclusion of the ceremony, the marchers move down the center aisle and proceed as a group toward the Bartlett Center. Guests are asked not to block the progress of the processional or recessional. It is especially important to keep the center aisle clear so marchers may make their way to and from their seats.

Serving as honorary marshal for the Graduate Ceremony is Jeanine Skorinko, professor of social science and policy studies and winner of the 2023 Trustees' Award for Outstanding Research and Creative Scholarship. The baton she carries is the walking stick of WPI founder John Boynton.

President Wang wears the Presidential Medallion, with the WPI seal cast in silver and the names and years of service of all 16 presidents engraved on small silver plates that form links in the chain. Provost Soboyejo carries the Academic Mace, a 42-inch staff made from fluted cherrywood and topped with a circular silver pedestal on which sits a large silver medal with the WPI seal on each side.

PHOTOS AND VIDEOS

The pictures taken today will be treasured mementos. The following information should help our guests get the shots they want.

Photos during the ceremony: The area in front and to the side of the stage is reserved for official (badged) WPI photographers. Guests are not permitted in this area and may not stand in the aisles or around the stage area during any part of the ceremony (this will be strictly enforced). **Please do not stand in the aisles to take photographs as you will block the view of seated guests.**

Please note: We know that parents and guests want that perfect picture! WPI will provide each student a digital photo taken by a professional photographer (Island Photography) as they receive their diploma from President Wang. There is no cost for the downloadable photo. **For more information about the photo service**, you may call ***(516) 767-1234***, or check online at ***islandphoto.com***.

WPI records the entire ceremony from several vantage points. A live stream is available on the WPI Commencement website and the WPI mobile app (see next section) during the ceremony. A complete, high-quality video of the ceremony will be available for downloading within two weeks at ***wpi.edu/+Commencement***.

Photos after the ceremony: If you'd like to capture your happy graduate following the ceremony, we recommend the following locations:

- **The Stage Area:** After the procession has left the Quadrangle, guests are invited to take photos on or near the stage (with WPI banner and plantings in background).
- **Earle Bridge:** Spanning West Street, the footbridge is decorated with flowering plants. .
- **Boynton Hall:** WPI's first building, with its granite exterior and clock tower, is located just across the footbridge.
- **Higgins House:** This WPI mansion, located directly behind the Rubin Campus Center, is surrounded by plantings and formal gardens that are in full bloom at this time of year.

DISSEMINATING DIPLOMAS

After the Commencement ceremony ends, students will pick up diplomas from a designated location where faculty will be available for photo opportunities.

INFO AT YOUR FINGERTIPS

One of the best ways to get the information and news you're looking for about Commencement week is to download the **WPI Mobile App** to your smartphone or tablet. You will find items to help navigate the campus, including campus maps noting dining and more. You can get a front-row seat to the various ceremonies by watching our live video streams. After Commencement, use the WPI Mobile App to stay connected to all things WPI. The app is available on the iTunes Store and Google Play, or you can download it at ***wpi.edu/+mobile***.

WPI

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HONORARY DEGREE RECIPIENT

Catherine Ball, PhD

Scientific Futurist, Author, and Tech Influencer • Honorary Doctor of Science

Catherine Ball is a woman of many talents. In addition to being an honorary associate professor in the School of Cybernetics at the Australian National University, Dr. Catherine—as she likes to be called—is a global business pioneer, author, scientific futurist, and speaker. Her most recent book, *Converge: A futurist's insights into the potential of our world as technology and humanity collide*, explores how those of us alive today can effectively harness existing and future technology to save our planet and help humans thrive.

She has been asking important questions about the world since she was a little girl growing up in the United Kingdom. Seeing photos of the devastating famine in Ethiopia in the 1980s, she repeatedly asked her mother why people were letting others suffer so much. During the same period, the young Dr. Catherine was also deeply moved when she saw Live Aid benefit concerts on TV. As passionate celebrities from around the world came together to share songs and raise money for Ethiopians in need, she was moved by how much good could be done when people worked together. Both memories guide her work today.

She has combined her formal academic training in environmental protection, ecology, and statistics to forge a unique role in our rapidly changing and deeply connected world. Understanding how much potential power lies in technology today, Dr. Catherine works hard to inspire people to harness scientific advancements for the greater good. "Technology exists for us," she told *CEO Magazine*, adding that right now humans have a "chance to take everything we've learned from all the technologies we currently have and make tech work for the good of humanity and society."

A deep believer in paying it forward, Dr. Catherine is especially dedicated to inspiring girls and others who are traditionally underrepresented in STEM fields because she knows that diverse perspectives are needed in order to create solutions that will be effective and lasting in a changing world. She is a mentor and advisor to the CEO of Women Who Drone, as well as a proud #SheFlies ambassador for Girl Geek Academy. Named one of the World's 50 Most Renowned Women in Robotics by *Analytics Insight* in 2020, Dr. Catherine is also the only Australian on the International Advisory Board of the Schmidt Ocean Institute, which follows her work as a judge on the Ocean Discovery XPrize.

For her unwavering commitment to ensuring that both our planet and society are healthy for generations to come by connecting people from different backgrounds and inspiring and mentoring budding global STEM leaders to harness the power of technology to create innovative solutions for the most pressing humanitarian, educational, and environmental needs of today and tomorrow, WPI is pleased to confer on Catherine Ball the degree of Doctor of Science, *Honoris Causa.*

HONORARY DEGREE RECIPIENT

Professor Gebisa Ejeta

Executive Director, Purdue Center for Global Food Security, Purdue University • Honorary Doctor of Science

Growing up the son of poor tenant farmers in a one-room thatched hut in west central Ethiopia, Gebisa Ejeta walked more than 12 miles to school on Sunday evenings, and made the return trip on foot after school on Fridays.

The experience set him on a trajectory toward a better life, but his educational journey has also ultimately resulted in hunger relief for millions on the African continent when the renowned plant breeder and geneticist developed drought- and parasite-resistant sorghum hybrids.

Ejeta, executive director of Purdue University's Center for Global Food Security, received the World Food Prize in 2009 for his work developing sorghum varieties resistant to drought and to Striga, a parasitic weed. Sorghum is a major food crop for more than 500 million people on the African continent.

"The research breakthroughs and publications of results and so on are not an end by themselves," Ejeta said after receiving the prize, considered the Nobel Prize of agriculture. "Millions of dollars are being invested in various international research programs to serve a purpose, and that purpose is to serve humanity, eradicate hunger, and feed people."

Ejeta also had the honor of advising on science and policy at the highest level of several international development and U.S. government agencies, including a stint as a member of the United Nations Secretary-General Ban Ki-moon's Scientific Advisory Board.

After receiving his master's and doctorate from Purdue, Ejeta went to Sudan to begin his seminal sorghum research. In 1984, he returned to Purdue, where he has led a comprehensive agricultural educational and research program with a focus on Africa. In 2011, he helped create the Center for Global Food Security at Purdue; he is also the university's Presidential Fellow for Food Security and Sustainable Global Development.

For his decades-long efforts to improve lives through development of drought-resistant crop varieties, his steadfast advocacy for food security and sustainable development, and his role in shaping food policy around the world, WPI is pleased to confer on Gebisa Ejeta the degree of Doctor of Science, *Honoris Causa*.

HONORARY DEGREE RECIPIENT

David A. Lucht

Founding Director of WPI's Fire Protection Engineering Program • Honorary Doctor of Engineering

David A. Lucht is one of those people who can look back on a career that has made the world safer. From his service as a volunteer firefighter in his hometown of Middlefield, Ohio, to his pivotal role as founding director of WPI's internationally renowned graduate degree program in fire protection engineering (FPE), Lucht has dedicated his life to fire safety and educating generations of leaders in this critical field..

After earning a Bachelor of Science degree in fire protection and safety engineering from the Illinois Institute of Technology, Lucht wasted no time applying his education to the real-world challenges of fire protection. Early in his career at The Ohio State University Building Research Laboratory, he organized demonstration tests aimed at educating lawmakers and code officials about the effectiveness of home smoke detectors in actual dwellings. His career-long advocacy of home smoke detectors may be his greatest contribution to making individuals, families, and communities safer.

In 1972, Lucht began work in the Ohio Division of State Fire Marshal. Not long thereafter, Governor John Gilligan appointed him to serve as the State Fire Marshal, the top fire safety official in the state. During his tenure in that Division he launched construction of the Ohio Fire Academy and authored the Ohio Fire Code which was the first in the United States to mandate home smoke alarms on a statewide basis.

In 1975, Lucht was appointed by President Gerald Ford as deputy administrator of the United States Fire Administration. This newly created agency was charged with implementing America Burning, the 1973 landmark report by the National Commission on Fire Prevention and Control. He played a key role in implementing the mandates of the Fire Prevention and Control Act, including the National Fire Academy, the National Fire Incident Reporting System and fire research programs. The efficacy of home smoke alarms and residential sprinkler systems received heavy emphasis in public education programs developed for use by practitioners on the state and local level.

Lucht brought all this knowledge and experience to WPI in 1978, when he became the first director of the newly created Center for Firesafety Studies. During his 25 years as adjunct professor and founding director of the FPE program, WPI launched the nation's first master of science degree in FPE, a first-of-its-kind PhD program, and the first global distance learning FPE degree program. WPI is now known as a global leader in FPE, with graduates making significant contributions to government, business, and education around the world.

Lucht has also actively served in leadership positions in numerous professional societies. He is a Fellow of the Society of Fire Protection Engineers (SFPE). He received the Arthur B. Guise Medal and Prize from the SFPE Foundation, and the David Rasbash Memorial Medal from the Institution of Fire Engineers, London. In 2005, the SFPE established the David A. Lucht Lamp of Knowledge Award in his honor.

For his leadership in the field of fire protection engineering and significant contributions in the field and at the university that have led to a safer world, WPI is pleased to confer on David A. Lucht the degree of Doctor of Engineering, *Honoris Causa.*

2023 STUDENT SPEAKER

Mahvash Jebeli

PhD Biomedical Engineering

Mahvash Jebeli is receiving a PhD in biomedical engineering. Her diverse experience at WPI has prepared her well for a career in the biopharma industry, where she hopes to help increase the quality of people's lives. Her work at WPI focused in part on rigorously researching and evaluating the calcification of the aortic valve to better understand the disease and related cellular behavior.

Mahvash was a mentor for high school women of color through the Women's Research and Mentorship Program (WRAMP) at WPI, which empowers young women by pairing graduate, undergraduate, and high school students to conduct hands-on research. In fact, two of her mentees in WRAMP are now biomedical engineering undergraduate students here.

Prior to WPI, Mavash received master's degrees in biomedical engineering from both the University of Akron and Amirkabir University in Tehran; she received her bachelor's degree in mechanical engineering from the University of Tehran. Currently, she is a scientist at Seres Therapeutics, which recently secured the first and only FDA approval for its orally administered microbiota-based therapeutic for the prevention of recurrent C. *difficile* infection. She advocates for women in higher education and looks forward to a brighter future for humanity.

DOCTOR OF PHILOSOPHY DEGREES

SCHOOL OF ARTS & SCIENCES

BIOINFORMATICS AND COMPUTATIONAL BIOLOGY DEPARTMENT

Kevin Nelson Heath
Bioinformatics and Computational Biology
"Modeling Approaches to Understanding Bumblebee Behavior and Population Decline"
Advisor: Elizabeth Ryder
Awarded: August 30, 2022

Alicia Nadine Howell-Munson
Bioinformatics and Computational Biology
"Passive Brain-Computer Interfaces for Non-Medical Applications"
Advisor: Erin Solovey

Dayna Mercadante
Bioinformatics and Computational Biology
"Mathematical Modeling and Experimental Approaches Reveal Novel Roles of Cortical Dynein in Spindle Dynamics and Centrosome Clustering"
Advisors: Sarah Olson and Amity Manning
Awarded: August 30, 2022

BIOLOGY & BIOTECHNOLOGY DEPARTMENT

Elizabeth A. Crowley
Biology and Biotechnology
"Defining the Mechanisms Contributing to Genomic Instability Following RB Loss"
Advisor: Amity Manning
Awarded: December 30, 2022

Luis Gregory Gutierrez Zamalloa
Biology and Biotechnology
"Elucidating Mechanisms of Replication-Associated Synthetic Lethality with RB Loss and PARP Inhibition"
Advisor: Amity Manning

Bo Yang
Biology and Biotechnology
"Understanding and Managing Emerging Fungal Infectious Diseases-Virulence Mechanisms, Drug Resistance and Discovery of Novel Antifungal Agents"
Advisor: Reeta Rao
Awarded: December 30, 2022

CHEMISTRY & BIOCHEMISTRY DEPARTMENT

Tadas A. Buivydas
Chemistry
"I. Enantioselective Alkynylation of Challenging, Biologically Relevant Tertiary Ether Stereocenters II. Enantioselective Catalytic Alkynylation of Quinolones III. Benzopyrylium Ions as Highly Tunable Organic Photocatalysts"
Advisor: Anita Mattson

Lela Elizabeth Jackson
Biochemistry
"The Role of Gαq-Mediated Stress Granules in Neuron Function"
Advisor: Suzanne Scarlata
Awarded: August 30, 2022

Yuting Liu
Biochemistry
"Expression, Function and Oligomerization of the hZIP4 Membrane Domain"
Advisor: Robert Dempski
Awarded: August 30, 2022

Julia L. Martin
Chemistry
"Surface Science of Low-Dimensional Materials: Controlling Chemical and Optoelectronic Structure, Connecting Dissimilar Materials, and Improving Atmospheric Stability"
Advisor: Ronald Grimm

Andre Francisco de Castro Vieira
Biochemistry
"Dissecting Phospholipid Metabolism Pathways after Glucose Stress in *C. Elegans*"
Advisor: Carissa Olsen

COMPUTER SCIENCE DEPARTMENT

Noura Saeed Alghamdi
Computer Science
"Big Time Series Analytics Using a Distributed Infrastructure"
Advisor: Elke Rundensteiner
Awarded: August 30, 2022

Zeqian Li
Computer Science
"Compositional Embeddings and Their Applications in Speaker Diarization"
Advisor: Jacob Whitehill

Xika Lin
Computer Science
"Frequent Pattern Mining Analytics"
Advisor: Elke Rundensteiner
Awarded: December 30, 2022

Shengmei Liu
Computer Science
"The Impact of Latency on Players in First-person Shooter Games"
Advisor: Mark Claypool
Awarded: December 30, 2022

Ziyang Liu
Computer Science
"Neural Networks Models for Multi-Attribute Assessment of Fine-Grained Wound Images"
Advisor: Emmanuel Agu

Hamid Mansoor
Computer Science
"Visual Analytics for Smartphone Health Phenotyping"
Advisors: Emmanuel Agu and Elke Rundensteiner
Awarded: August 30, 2022

Samuel S. Ogden
Computer Science
"MiseEnPlace: Fine- and Coarse-grained Approaches for Mobile-Oriented Deep Learning Inference"
Advisor: Tian Guo
Awarded: December 30, 2022

DATA SCIENCE PROGRAM

Abdulaziz Saleh Alajaji
Data Science
"Robust Representation Learning for Context Recognition on Weakly-supervised Mobile Sensed Data with Covariate-shifts"
Advisors: Emmanuel Agu and Elke Rundensteiner

Geri Louise Dimas
Data Science
"Data Science for Improving Operations in Organizations that Serve Vulnerable Populations"
Advisor: Andrew Trapp

Han Jiang
Data Science
"Educational Data Mining Toward Personalized Tutoring: Exploration of Facial Behaviors, Thermal Comfort, and Relevant Content Search"
Advisor: Jacob Whitehill
Awarded: August 30, 2022

Rasika Shirish Karkare
Data Science
"Robust Generative Models for Deep Learning Applications"
Advisor: Randy Paffenroth
Awarded: August 30, 2022

Yingnan Liu
Data Science
"Ensemble CNNs in Transform Domains for Small Data Image Super-Resolution"
Advisor: Randy Paffenroth
Awarded: August 30, 2022

Ethan Benjamin Prihar
Data Science
"Integrating Personalized Learning into Online Education through Content Aggregation, Data Mining, and Reinforcement Learning"
Advisor: Neil Heffernan

Huimin Ren
Data Science
"Entity Identification Based on Human Mobility Data"
Advisor: Yanhua Li
Awarded: December 30, 2022

Jidapa Thadajarassiri
Data Science
"Knowledge Amalgamation from Heterogeneous Pre-Trained Models"
Advisor: Elke Rundensteiner

Huayi Zhang
Data Science
"Towards an End-to-End Training Data Management System for Machine Learning Models"
Advisor: Elke Rundensteiner

Xin Zhang
Data Science
"Human Behavior Analysis via Generative Adversarial Imitation Learning"
Advisor: Yanhua Li

LEARNING SCIENCES & TECHNOLOGY PROGRAM

Renah Razzaq
Learning Sciences and Technology
"The Effects of Immediate Feedback on Student Learning in Mathematics"
Advisor: Neil Heffernan

Hannah Catherine Smith
Learning Sciences and Technology
"Enhancing STEM Learning in Pre-K-12 Education: A Multifaceted Approach to Supporting Students and Training Teachers"
Advisor: Erin Ottmar

MATHEMATICAL SCIENCES DEPARTMENT

Ashley Nicole Lockwood
Statistics
"Bayesian Predictive Inference for a Study Variable Without Specifying a Link to the Covariates"
Advisor: Balgobin Nandram

Patchara Santawisook
Mathematical Sciences
"Price Impact in the VIX Futures Market and Mean-Field Games in Two Order Books"
Advisor: Stephan Sturm
Awarded: December 30, 2022

Riuji Ignacio Sato
Mathematical Sciences
"Analysis and Homogenization of Partial Differential Equations with Discontinuous Boundary Conditions"
Advisor: Bogdan Vernescu

Yanzhao Wang
Statistics
"New Developments in Sequential Change Point Detection for Time Series and Spatio-temporal Analysis"
Advisor: Jian Zou

Evan Connor Witz
Mathematical Sciences
"Mathematical Principles for Deconstructing Deep Learning: Theory and Application to Electromagnetic Signals"
Advisor: Randy Paffenroth
Awarded: August 30, 2022

Pooya Yousefi
Mathematical Sciences
"Quasi-Static Griffith Fracture Evolution with Boundary Loads"
Advisor: Christopher Larsen

PHYSICS DEPARTMENT

Teagan E. Bate
Physics
"Control and Characterization of Microtubule Kinesin Active Fluid Behavior"
Advisor: Kun-Ta Wu

Debanik Das
Physics
"Modeling Phononic Crystals and Acoustic Metamaterials to Control Elastic Waves: Self-Collimation, Bi-Refringence, Forward and Inverse Design"
Advisor: L. Ramdas Ram-Mohan
Awarded: August 30, 2022

SYSTEM DYNAMICS

Timothy Burke Clancy
System Dynamics
"The Lifecycle of Violence and Instability of Non-State Actors"
Advisor: Khalid Saeed

THE BUSINESS SCHOOL

Lojain Omar Alkhuzaim
Business Administration
"Emergy Analysis and Supply Chains - A Circular Economy Byproduct Supply Chain Case Study"
Advisor: Joseph Sarkis

Luis Arturo Jimenez Castillo
Business Administration
"Factors Influencing Family Firm Internationalization"
Advisor: Purvi Shah
Awarded: August 30, 2022

Basma Abubakr Khoja
Business Administration
"Family Influence, Entrepreneurial Passion and Gender: Multiple Case Studies of Saudi Family Businesses"
Advisor: Rosanna Garcia

Javad Norouzi Nia
Business Administration
"Eye Tracking and Wellness: The Quest for Unobtrusive Biomarkers for Designing Smart Neuro Information Systems"
Advisor: Soussan Djamasbi
Awarded: August 30, 2022

Scorpio Kevin Rogers
Business Administration
"Entrepreneurship-Educated Black Entrepreneurs and Their Impacts Provided to Black Communities"
Advisor: Rosanna Garcia

Yu Shi
Business Administration
"Modelling and Evaluating Financial Sustainability using Data Envelopment Analysis and Machine Learning Methods"
Advisor: Joe Zhu

SCHOOL OF ENGINEERING

BIOMEDICAL ENGINEERING DEPARTMENT

Mahvash Jebeli
Biomedical Engineering
"Investigating the Role of Apoptosis in Calcification of the Aortic Valvular Interstitial Cells"
Advisor: Kristen Billiar
Awarded: December 30, 2022

Shaoju Wu
Biomedical Engineering
"Applications of Deep Learning in Brain Injury Biomechanics and Spine Image Registration"
Advisor: Songbai Ji
Awarded: August 30, 2022

CHEMICAL ENGINEERING DEPARTMENT

Cameron David Armstrong
Chemical Engineering
"Dynamic Catalytic Microreactor Design and Operation in Overcoming Inherent Thermodynamic Limitations"
Advisor: Andrew Teixeira

Kevin William Keating
Chemical Engineering
"Domestication of Nonconventional Gram-negative Bacteria as Synthetic Biology Chassis"
Advisor: Eric Young

Heather Orise LeClerc
Chemical Engineering
"Molecular Pathway Analysis of Biocrude Formation in Hydrothermal Liquefaction"
Advisors: Andrew Teixeira and Michael Timko

CIVIL, ENVIRONMENTAL, AND ARCHITECTURAL ENGINEERING DEPARTMENT

Kaoutar Diouri
Civil Engineering
"A Study of the Dynamic Behavior of Asphalt Material Under Milling Conditions"
Advisor: Tahar El-Korchi

Jihan El Ouaragli
Civil Engineering
"Novel Smart Polymer – Sorbent-Based Thermal Battery for Low-Temperature Energy Storage Applications"
Advisor: Steven Van Dessel

Shuai Wang
Civil Engineering
"Engineered Biological Construction Material: Self-healing Concrete and Self-healing Carbon Negative Enzymatic Construction Materials (ECM)"
Advisor: Nima Rahbar

Mengxuan Zhao
Civil Engineering
"A Holistic Framework of Synthesis and Characterization of Waste-based Geopolymers for Civil Engineering Applications"
Advisor: Mingjiang Tao

ELECTRICAL & COMPUTER ENGINEERING DEPARTMENT

Hamza Issa Abujrida
Electrical and Computer Engineering
"Machine Learning Models for Parkinson's Disease Gait Assessment and Medication Adherence from Smartphone Sensor Data"
Advisor: Emmanuel Agu
Awarded: December 30, 2022

Johnathan Werber Adams
Electrical and Computer Engineering
"Dual-Antiphase Patch Antennas for Microwave Imaging and Osteoporosis Screening Results Based on Neural Networks: Theoretical and Experimental Results"
Advisor: Sergey Makaroff
Awarded: December 30, 2022

Mahdi Elhousni
Electrical and Computer Engineering
"Visual Cross-Modal Mapping, Labeling and Localization"
Advisor: Xinming Huang
Awarded: December 30, 2022

Pantea Kiaei
Electrical and Computer Engineering
"Cross-Layer Vulnerability Analysis of System-on-Chip against Physical Hardware Attacks"
Advisor: Patrick Schaumont
Awarded: December 30, 2022

Jianan Li
Electrical and Computer Engineering
"Advanced Control of Upper-Limb Prostheses with Time-Synchronized Distributed Wireless Electrodes"
Advisor: Ted Clancy
Awarded: December 30, 2022

Zhouchi Li
Electrical and Computer Engineering
"Safe Control of Cyber-Physical Systems Under False Data Injection Attacks"
Advisor: Andrew Clark

FIRE PROTECTION ENGINEERING DEPARTMENT

Hsin-Hsiu Ho
Fire Protection Engineering
"Heat Release Rate of Fires Using Point-Based Sampling"
Advisor: Ali Rangwala

SCHOOL OF ENGINEERING

Veronica M. Kimmerly
Fire Protection Engineering
"The Behavior of Pit Fires"
Advisor: Ali Rangwala
Awarded: August 30, 2022

Nathaniel Guild Sauer
Fire Protection Engineering
"Burning Behavior of Fuel on Water Under the Influence of Waves"
Advisor: Ali Rangwala

MECHANICAL AND MATERIALS ENGINEERING DEPARTMENT

Aref Aasi
Mechanical Engineering
"Early Detection of Disease Biomarkers in Exhaled Breath through Nanomaterials-Based Sensors: A Comprehensive Investigation"
Advisor: Balaji Panchapakesan

Munevver Elif Asar Sarikaya
Mechanical Engineering
"Fundamental and Applied Studies in Modular and System-Level Novel Drying Technologies"
Advisor: Jamal Yagoobi
Awarded: December 30, 2022

Jaya Cromwell
Mechanical Engineering
"Organic and Perovskite Light Emitting Devices: Effects of Interfacial and Layer Cracking on Device Performance and Failure Mechanisms"
Advisor: Winston Soboyejo

Maryam Masroor Shalmani
Mechanical Engineering
"Enhancing the Resolution of Inkjet Printing Through Modification of Ink/Substrate Interaction"
Advisor: Pratap Rao
Awarded: August 30, 2022

Ajit Ashokrao Mohekar
Mechanical Engineering
"Fundamental Mechanisms of Energy Transport in Layered Electromagnetic Heat Exchangers with Compressible and Incompressible Fluids"
Advisors: Burt Tilley and Vadim Yakovlev
Awarded: August 30, 2022

Zahra Noori O'Connor
Mechanical Engineering
"Fundamental Understanding of Removal of Water from a Moist Porous Medium in the Absence and Presence of Ultrasound Mechanism"
Advisor: Jamal Yagoobi

Ridwan Adesoye Ahmed
Materials Science and Engineering
"Interfacial Contact and Deformation: From All Solid State Li Batteries to the Cold Spray of Refractory Ta Powders"
Advisor: Winston Soboyejo
Awarded: August 30, 2022

Luqman Azhari
Materials Science and Engineering
"Modification, Design and Degradation Mechanisms of Nickel-Rich Layered Oxide Cathodes for High-Capacity Lithium-Ion Batteries"
Advisor: Yan Wang
Awarded: August 30, 2022

Chinenye Annexcel Chinwego
Materials Science and Engineering
"Metal Leaching and G-METS Distillation for Neodymium Magnet Scrap Recycling"
Advisor: Adam Powell

Qingli Ding
Materials Science and Engineering
"Microstructural, Corrosion and Mechanical Characterization of Friction-Stir Welded Joints Between Aluminum and Magnesium Alloys"
Advisor: Brajendra Mishra

Jack A. Grubbs
Materials Science and Engineering
"Exploring the Impact of Metallic Powder Quality on Cold Spray Processing and Consolidated Material Performance"
Advisor: Danielle Cote

Akanksha Gupta
Materials Science and Engineering
"Optimized Metals Separation for Remanufacturing of Product-Centric Recycled and Reclaimed Scrap"
Advisor: Brajendra Mishra

Hyunsoo Jin
Materials Science and Engineering
"Separation of Chemically-Bound Copper in Steel Scrap for Recycling"
Advisor: Brajendra Mishra
Awarded: December 30, 2022

Yangtao Liu
Materials Science and Engineering
"Novel Battery Systems with Advanced Manufacturing and Electrode Designs"
Advisor: Yan Wang
Awarded: December 30, 2022

Aditya Moudgal
Materials Science and Engineering
"Numerical Modelling and Experiments of Silicon Electrodeposition by Solid Oxide Membrane – Molten Salt Electrolysis"
Advisor: Adam Powell

Matthew Anthony Ryder
Materials Science and Engineering
"Design and Qualification of Wrought and Additively Manufactured 4340 Steels for Fatigue-Critical and Damage-Tolerant Applications"
Advisor: Diana Lados
Awarded: August 30, 2022

Christopher Michael Sample
Materials Science and Engineering
"Design of Cold Spray Aluminum Alloys for Structural Components, Coatings and Repairs: Fatigue Mechanisms, Novel Interfacial Evaluations and Methods for Material/Part Qualification"
Advisor: Diana Lados
Awarded: August 30, 2022

Mahya Shahabi
Materials Science and Engineering
"Design of a Molten Salt Metal-Air Battery with High-Energy Density – Proof of Concept, Modeling, and Recharging"
Advisor: Adam Powell

Rui Wang
Materials Science and Engineering
"Computationally Guided Design of Multiple Impurities Tolerant Cathode for Solid Oxide Fuel Cell Applications"
Advisor: Yu Zhong

Yutao Wang
Manufacturing Engineering
"Developing Smart Agile Manufacturing System for Improved Sustainability: From Waste Steel to Matériel"
Advisor: Jianyu Liang
Awarded: December 30, 2022

ROBOTICS ENGINEERING DEPARTMENT

Abudula Aihaitijiang
Robotics Engineering
"SoAR (Soft Aerial Robot) – Origami-Inspired Morphing Fuselage Extends Flight Capabilities"
Advisor: Cagdas Onal
Awarded: December 30, 2022

Lening Li
Robotics Engineering
"Optimal Control and Reinforcement Learning for Stochastic Systems under Temporal Logic Specifications"
Advisor: Jie Fu
Awarded: December 30, 2022

Tsung-Chi Lin
Robotics Engineering
"Human-Robot Interfaces to Enable Effective and Effortless Control for Remote Manipulation of Tele-nursing Robot"
Advisor: : Zhi Li

Yinan Sun
Robotics Engineering
"Modular Continuum Mobile Robot: Design, Modeling and Motion Planning"
Advisor: Cagdas Onal
Awarded: August 30, 2022

Zhanyue Zhao
Robotics Engineering
"MRI Compatible Piezoelectric Actuator Development and Towards Application Based Simulation"
Advisor: Gregory Fischer
Awarded: August 30, 2022

MASTER'S DEGREES

SCHOOL OF ARTS AND SCIENCES

BIOINFORMATICS & COMPUTATIONAL BIOLOGY PROGRAM

Justin Krittaponrattan Moy
Bioinformatics and Computational Biology

BIOLOGY & BIOTECHNOLOGY DEPARTMENT

Robert Lawrence Belmonte
Biotechnology

Fritz Gregory Cadet
Biotechnology

Yiannis Demetrios Dres
Biotechnology

Eugenia Valentina Fandunyan
Biotechnology

Sarah J. Koob
Biotechnology

Preston J. Lanier
Biotechnology

Alessandra Carmela Molinaro
Biotechnology

Gael Moncoeur
Biotechnology

Michael F. Ohrenberger
Biotechnology

Kinga Joanna Piskorz
Biotechnology

Ryan Michael Sullivan
Biotechnology

Amy Lee Tavares
Biotechnology

Rachael Elysse Utegg
Biotechnology

BIOSCIENCE MANAGEMENT PROGRAM

Christopher Samuel Croce
Bioscience Management

Danielle Marie Curran
Bioscience Management

Paul F. Henry
Bioscience Management

Margaret Ann LaRoche
Bioscience Management

Beth A. Leary
Bioscience Management

John M. McAuliffe
Bioscience Management

Guillermo A. Montoya
Bioscience Management

Martha Jackline Nattyaba
Bioscience Management

Ryan Nicholas OReilly
Bioscience Management

Urvi Rajyaguru
Bioscience Management

CHEMISTRY & BIOCHEMISTRY DEPARTMENT

Elina Aune Barrows
Chemistry

Shane Derek Dancer
Biochemistry

Angel David Fernandez Sorondo
Chemistry

Aubrey Elizabeth Graham
Chemistry

Anna Furey Hickman
Biochemistry

Jeffrey William Marsh
Biochemistry

Nathan Joseph Ouellet
Chemistry

Isabelle Simone Morris Rhodes
Chemistry

COMPUTER SCIENCE DEPARTMENT

Khatera Alizada
Computer Science

Jack Philip Ayvazian
Computer Science

Jake Backer
Computer Science

Denver Andrew Blake
Computer Science

Galen Isadore Lieberm Brown
Computer Science

Justin John Cabral
Computer Science

Daniel J. Caloia
Computer Science

Theodore Joseph Campbell
Computer Science

Anna Cherkinsky
Computer Science

Isha Chidrawar
Computer Science

Charlotte Clark
Computer Science

Nicole Conill
Computer Science

Peter Nicholas Cordone
Computer Science

Akhil Daphara
Computer Science

Luke Deratzou
Computer Science

Mason Thomas DiCicco
Computer Science

Shane Keenan Donahue
Computer Science

Jasmine Lili Duerk
Computer Science

Jonathan Duran
Computer Science

Jason Phillip Dykstra
Computer Science

Margaret Emily Earnest
Computer Science

Carlie Flanagan
Computer Science

Jessica M. Forrett
Computer Science

Alexa M. Freglette
Computer Science

Matthew T. Goldstein
Computer Science

Abhishek Kumar Reddy Gotike
Computer Science

Samantha S. Gould
Computer Science

Irakli Grigolia
Computer Science

Christopher Jeffrey Guerrette
Computer Science

Nikhil Gangadhar Gunale
Computer Science

Zeyu Hu
Computer Science

Bao Duy Huynh
Computer Science

Donghyuk Kim
Computer Science

Vinit Kothari
Computer Science

Harrison Michael Kyriacou
Computer Science

Mingzhi Li
Computer Science

Chang Liu
Computer Science

Shuwen Liu
Computer Science

Lorenzo Paul Lopez
Cyber Security

Ivan Martinovic
Computer Science

Spencer Todd McAvey
Computer Science

Conor Edward McDonough
Computer Science

Joshua Davis McKeen
Computer Science

Jonathan Evan Metcalf
Computer Science

Shreya Milind Mhalgi
Computer Science

Christopher J. Micek
Computer Science

Justin Minh Moczynski
Cyber Security

Sullivan James Mulhern
Computer Science

Yahel Nachum
Computer Science

Shradha Neupane
Computer Science

Cory R. Neville
Computer Science

Duy Nguyen
Computer Science

Brian James O'Day
Computer Science

João Victor Omena de Lucena
Computer Science

Trevor Mercer Paley
Computer Science

Pranjal Paliwal
Computer Science

Yash Patel
Computer Science

Noëlle Tiana Lilie Rakotondravony
Computer Science

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Computer Science

Sam Patrick Rowe
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Computer Science

Maria del Carmen Sacristan Benjet
Computer Science

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Computer Science

Mago Harley Sheehy
Computer Science

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Computer Science

Hilson Shrestha
Computer Science

Alexander Fisher Simoneau
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Tejbir Singh
Computer Science

Avery Smith
Computer Science

Jesse William Snydeman
Computer Science

Bailey Hayward Sostek
Computer Science

Adrianna Staszewska
Computer Science

Saniya Zareen Syeda
Computer Science

Yibo Teng
Computer Science

Riddhi Thakkar
Computer Science

Vedhas Vinjamuri
Computer Science

Nitaant Jay Vyas
Computer Science

Jiani Wang
Computer Science

Zhixang Wang
Computer Science

Roman Wicky van Doyer
Computer Science

Yichi Xu
Computer Science

Jin Yang
Computer Science

Haiyang Yun
Computer Science

Mingjie Zeng
Computer Science

Xueying Zeng
Computer Science

Weisi Zhan
Computer Science

Yan Zhang
Computer Science

Zihao Zhou
Computer Science

DATA SCIENCE PROGRAM

Ashay Laxman Aglawe
Data Science

Ardavasd Ardhaldjian
Data Science

Maria Barger
Data Science

Jeffrey M. Bloom
Data Science

Kimberly Victoria Brady
Data Science

William MacDonald Carr
Data Science

Ruofan Chen
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Jeffrey E. Crosby
Data Science

Russell M. Davis
Data Science

Benjamin Abraham Diamond
Data Science

Matthew Cameron Dzwil
Data Science

Sirshendu Ganguly
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Joseph P. Georger
Data Science

Edith Carolina Gomez Sanchez
Data Science

Ranier X. Gran
Data Science

Quincy B. Hershey
Data Science

Olajumoke Elizabeth Jackson
Data Science

Bhavin Vinod Jain
Data Science

Utsav Nandlal Jain
Data Science

Gauri Maheshkumar Jare
Data Science

Nicholas Joseph Josselyn
Data Science

Eri Kim
Data Science

Shreedhar Shreeshail Kodate
Data Science

Muralidhar Koripalli
Data Science

Anamika Kumari
Data Science

Uday Ekanath Kumbhar
Data Science

Truman Henry Larson
Data Science

Joshua Levy
Data Science

Hanmeng Liu
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Agustina Belén Maccio
Data Science

Eric David Mariasis
Data Science

Victoria Lynn Mirecki
Data Science

Kartik Nautiyal
Data Science

Lenore Ogren
Data Science

Matthew J. Pacenka
Data Science

Parth Dushyant Patel
Data Science

Whitney C. Pavlova
Data Science

Tess Victoria Royds
Data Science

Francesca Ona Sajedi
Data Science

Shrinivas Balasaheb Sanglikar
Data Science

Janani Sankarasubramanian
Data Science

Sahil Subhash Sawant
Data Science

Ridhima Saxena
Data Science

Rudy Ellyn Shayganfar
Data Science

Kratika Shetty
Data Science

Orion Stavre
Data Science

Peter Michael VanNostrand
Data Science

Eric Warnemunde Vertina
Data Science

Shanchao Wu
Data Science

Jiacong Xu
Data Science

Ziyang Xu
Data Science

Wenrui Zheng
Data Science

INTERACTIVE MEDIA & GAME DEVELOPMENT PROGRAM

Fangtai Bao
Interactive Media and Game Development

Alexis S. Boyle
Interactive Media and Game Development

Yingcheng Cai
Interactive Media and Game Development

Jingru Chen
Interactive Media and Game Development

Tian Dai
Interactive Media and Game Development

Timothy E. Drevitch
Interactive Media and Game Development

Qianlin Duanmu
Interactive Media and Game Development

McKenna Janeé Gameros
Interactive Media and Game Development

Mikel Matticoli
Interactive Media and Game Development

Laurie A. Mazza
Interactive Media and Game Design

Gaurav Nitin Randive
Interactive Media and Game Development

Karitta Christina (Kit) Grandin Zellerbach
Interactive Media and Game Development

LEARNING SCIENCES & TECHNOLOGY PROGRAM

Andrew Anthony McReynolds
Learning Sciences and Technology

Paul Alexandre Pacheco Jr.
Learning Sciences and Technologyt

MATHEMATICAL SCIENCES DEPARTMENT

Beth Arsenault
Master of Mathematics for Educators

Samuel Berbeco
Applied Statistics

Alexander Clopper
Applied Statistics

Joshua Michael John Coutu
Applied Statistics

Michael Casey Duva
Master of Mathematics for Educators

Anna K. Fitzpatrick
Applied Mathematics

Molly J. Folino
Applied Mathematics

Benjamin Lane Gobler
Applied Mathematics

Catherine Ann Harvey
Master of Mathematics for Educators

Nikolaos Kalampalikis
Applied Mathematics

Dermot Patrick Kendal
Master of Mathematics for Educators

Alison Rose Lambert
Applied Statistics

Kieran Lee
Financial Mathematics

Matthew Ari Levine
Applied Mathematics

Yifan Ma
Applied Statistics

Sheila R. Orlando
Master of Mathematics for Educators

Indika K. Ranasinghe
Applied Statistics

Elizabeth Nicole Raymond
Master of Mathematics for Educators

Catherine Elizabeth Rossi
Master of Mathematics for Educators

Gidraf Mbugua Ruo
Master of Mathematics for Educators

Elizabeth C. Schaffert
Master of Mathematics for Educators

Yueming Shi
Applied Statistics

Juliette Spitaels
Applied Mathematics

Kyle Edward Stinner
Master of Mathematics for Educators

Paul M. Tishue
Master of Mathematics for Educators

Ethan Francis Washock
Applied Mathematics

Zhi Zheng
Applied Statistics

NEUROSCIENCE PROGRAM

Lilly-Beth Dee Linnell
Neuroscience

Justin John Polcari
Neuroscience

PHYSICS DEPARTMENT

Evan Tyler Ruttan
Physics

Aidan H. Zlotak
Physics

SOCIAL SCIENCE AND POLICY STUDIES DEPARTMENT

Kennedy M. Damoah
Science and Technology for Innovation in Global Development

Julisse Sabater
Science and Technology for Innovation in Global Development

Rachel Anne Santarsiero
Science and Technology for Innovation in Global Development

Kelley Leeann Townley
Science and Technology for Innovation in Global Development

Kristophe Ngozi Zephyrin
Science and Technology for Innovation in Global Development

THE BUSINESS SCHOOL

Nnenna Jennifer Ajuzieogu
Information Technology

Zeñia Alarcon
Management

Jacquelyn V. Amico
Master of Business Administration

Sarah Annmarie Armstrong
Innovation with User Experience

Taylor Isabel Aschettino
Master of Business Administration

Jean-Luc C. Bellefleur
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Emily Robyn Bendremer
Management

Dipalkumari Bhatia
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Julia Rose Bryant
Management

Rui Cao
Business Analytics

Martin Babikian Carrau
Management

Yongyi Chen
Information Technology

Jillian Caroline Clemente
Master of Business Administration

Nadhykrishna Colocho Chacón
Operations and Supply Chain Analytics

Rachel L. Dancy
Management

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Sonya Riley DeLorie
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Malyssa Laura Deranian
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Adam Thomas Ferrarotti
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Dawn Madison Frederick
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Operations and Supply Chain Analytics

Cara Beth Goulding
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Mitchell Robert Greene
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Information Technology

Yuheng Guo
Management

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Reagan Marie Hajjar
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Innovation with User Experience

Sydney E. Hertel
Management

Katie Marie Houskeeper
Management

Joseph Cortland Howell
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Lauryn Rose Hubbard
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Business Analytics

Xiaolin Jiang
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Tyler Michael Kilkenny
Master of Business Administration

Nathan Kumar
Management

David Goncalves Leandres
Management

Zachary David Levy
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Xiangyu Liu
Operations and Supply Chain Analytics

Evan Martin MacGregor
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Katherine Matilda Marois
Operations and Supply Chain Analytics

Heather Elizabeth Rose McGlauflin
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Shruti Sreevalsan Menon
Information Technology

Jared B. Minnich
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Natalie Schubert Mohn
Innovation with User Experience

Jonathan Morales
Master of Business Administration

Samet Oksak
Business Analytics

Suzanne K. Opalka
Master of Business Administration

Maria del Milagro Ortiz-Rivera
Master of Business Administration

Meghan Jayne Pajonas
Master of Business Administration

Devang Hiralal Pawar
Information Technology

Abigail Fawn Perlee
Operations and Supply Chain Analytics

Nu Thanh Pham
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Master of Business Administration

Margaret Hayes Reiter
Operations and Supply Chain Analytics

Elizabeth Anne Rocco
Management

Catherine Ellen Salvaggio
Management

Mircalin Samedy
Master of Business Administration

Kenneth James Savage
Management

Nicholas J. Scrivanich
Master of Business Administration

Marilyn Eve Senger
Management

Kushal C. Shah
Information Technology

Hannah Claire Smith
Management

Lauren K. Sowerbutts
Management

Elitumaini S. Swai
Management

Steven Robert Tate
Master of Business Administration

Sanika Milind Thanekar
Information Technology

Michael Joseph Toner
Master of Business Administration

Andy Tran
Management

Hien Thi Thu Truong
Master of Business Administration

Joshua Harry Unger
Management

Amit Urs
Master of Business Administration

Joseph V. Vaglio
Master of Business Administration

Jeremiah W. Valero Araujo
Management

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Operations and Supply Chain Analytics

Jade Surya Veth
Management

Maye Walsh-Costello
Business Analytics

Yaofeng Wang
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Benjamin Richard Watkins
Management

Nicole Renee Whipkey
Operations and Supply Chain Analytics

Katherine Margaret Williamson
Master of Business Administration

Alex Joshua Witkin
Master of Business Administration

Oona Marguerite Stin Wood
Master of Business Administration

Xi Xi
Business Analytics

Alan Yim
Master of Business Administration

Yihong Yu
Information Technology

Dian Yuan
Business Analytics

Siyuan Zhao
Information Technology

Thaddaeus James Zuber
Management

SCHOOL OF ENGINEERING

AEROSPACE ENGINEERING DEPARTMENT

Reid Cobb Billings
Aerospace Engineering

Ethan Martin Buckley
Aerospace Engineering

Antonio Calcagni III
Aerospace Engineering

Jack A. Charbonneau
Aerospace Engineering

Paul Raymond Coccomo
Aerospace Engineering

Christopher R. Davenport
Aerospace Engineering

Amanda C. Dings
Aerospace Engineering

Phillip Richards Durgin
Aerospace Engineering

Cameron C. Henchy
Aerospace Engineering

Geneva Catherine Isaacson
Aerospace Engineering

Joshua John Martin
Aerospace Engineering

Harrison L. Mazur
Aerospace Engineering

Manish Mishra
Aerospace Engineering

Troy M Otter
Aerospace Engineering

Deep Patel
Aerospace Engineering

Yuvraj Pathania
Aerospace Engineering

Leah Elizabeth Pinner
Aerospace Engineering

Bethany Ramsbottom
Aerospace Engineering

Kevin Gerald Schultz
Aerospace Engineering

Zachary Sotland
Aerospace Engineering

Justin K. Tavares
Aerospace Engineering

Drake Patrick Tierney
Aerospace Engineering

Adam M. York
Aerospace Engineering

BIOMEDICAL ENGINEERING DEPARTMENT

Anthony R. Bozza
Biomedical Engineering

Hannah Jean Burke
Biomedical Engineering

Sean Carter Coughlan
Biomedical Engineering

Johanna Elizabeth Enzmann
Biomedical Engineering

Sawyer John Fenlon
Biomedical Engineering

Alexandra Michelle Gannon
Biomedical Engineering

Talya Goldman
Biomedical Engineering

Allison Kate Guthrie
Biomedical Engineering

Edward Noah Hay
Biomedical Engineering

Sydney Aiyana Hobson
Biomedical Engineering

Mervyn Larrier
Biomedical Engineering

Katelyn S. Mistretta
Biomedical Engineering

Olivia J. Petropulos
Biomedical Engineering

Sierra D. Raskevitz
Biomedical Engineering

Emily Lyn Calci Sansoucy
Biomedical Engineering

Tim Santos-Heiman
Biomedical Engineering

Zachary Thomas Siders
Biomedical Engineering

Camren Smith
Biomedical Engineering

Kirsten A. Stevens
Biomedical Engineering

CHEMICAL ENGINEERING DEPARTMENT

Kavim S. Bhatnagar
Chemical Engineering

Jason Bruno
Chemical Engineering

Gabriella Marie Cerbo
Chemical Engineering

Yihui Chen
Chemical Engineering

Gabriela A. Chong
Chemical Engineering

Benson Cody Colella
Chemical Engineering

Liam P. Cox
Chemical Engineering

Yiqun Duan
Chemical Engineering

Thomas Michael Dziechciarz
Chemical Engineering

Jay Gandhi
Chemical Engineering

Emily M. Gonzales
Chemical Engineering

Rebecca Jane Hapgood
Chemical Engineering

Rayna Lynn Harter
Chemical Engineering

Kyle Joyce
Chemical Engineering

John F. Laukaitis
Chemical Engineering

Kim Z. Mori
Chemical Engineering

Marina M. Petrillo
Chemical Engineering

Isabella M. Piccione
Chemical Engineering

Charles Anthony Edwards Pottow
Chemical Engineering

Caroline Valeska Rauber
Chemical Engineering

Margaret Ann Russell
Chemical Engineering

Jared Bruin Santerre
Chemical Engineering

Ronish M. Shrestha
Chemical Engineering

Adam John Strohm
Chemical Engineering

Timothy Michael Woodard
Chemical Engineering

CIVIL, ENVIRONMENTAL, AND ARCHITECTURAL ENGINEERING DEPARTMENT

Natalie Louise Cohn
Construction Project Management

William J. Crist
Civil Engineering

Lisa Marie Cristiano
Environmental Engineering

Dylan Robert Felty
Civil Engineering

Clint R. Fogg
Construction Project Management

Drew Joseph Grenier
Civil Engineering

Jesse Daniel Herman
Environmental Engineering

Brian K. Kirkwood II
Construction Project Management

Kevin E. Mahoney
Environmental Engineering

Isabelle H. Mellor
Civil Engineering

Enxhi Merjemaj
Construction Project Management

Julie D. Pham
Civil Engineering

Rajul Deelip Raka
Construction Project Management

Jane T. Richardson
Civil Engineering

Andrew Wesley Salvatori
Civil Engineering

Jonathan Walter Scribner
Civil Engineering

Shuai Wang
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Nazih E. Yazbeck
Construction Project Management

ELECTRICAL & COMPUTER ENGINEERING DEPARTMENT

Sahar Abed
Power Systems Engineering

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Gabriela Alatorre
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Zaid Abulsalam Isma Alqaisi
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Lindsay Anne Ambrosino
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Power Systems Management

Kenneth Franklin Armijo
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Power Systems Engineering

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Systems Engineering

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Systems Engineering

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Electrical and Computer Engineering

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Power Systems Engineering

Peter B. Chlastawa
Systems Engineering Leadership

Corey James Coogan
Electrical and Computer Engineering

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Power Systems Management

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Stephanie Marie DeLisi
Systems Engineering

Toly Marcell Diana Cintrón
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Jordan A. DiBona
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Mingxun Du
Electrical and Computer Engineering

Andrew Michael Duncan
Electrical and Computer Engineering

Bela Zoltan Elekes
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Coleman Ellis
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Electrical and Computer Engineering

Ford James Ennis
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Mehdi Faddi
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Power Systems Engineering

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Jose L. Figueroa
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Adam Garner Garcia
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Joshua Michael Geyster
Electrical and Computer Engineering

Jonathan Charles Gravelin
Power Systems Management

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Electrical and Computer Engineering

Abdul-Hadi Ali Hassan
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Craig Benjamin Huffnagle
Electrical and Computer Engineering

Elizabeth Mary Inger
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Mitchell Jacobs
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Spandana Janga
Power Systems Management

Christopher Neves Jarrett
Power Systems Management

Burak Kahraman
Electrical and Computer Engineering

Abdulrahman Dan Kargbo
Power Systems Engineering

Daniel Jaeyong Kim
Power Systems Engineering

Nagasai Asritha Kodumuru
Electrical and Computer Engineering

Wing Tak Kong
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Power Systems Management

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Systems Engineering

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Power Systems Management

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Power Systems Engineering

Charles Malcolm Lind
Systems Engineering

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Electrical and Computer Engineering

Philip W. Luetchford
Systems Engineering

Brian Stephen Mahan Jr.
Electrical and Computer Engineering

Mark Andrew McGovern
Systems Engineering

Jacob David McKinnon
Power Systems Engineering

Maxwell McNally
Electrical and Computer Engineering

Victor Simon Mercola
Electrical and Computer Engineering

Faith Morgan
Electrical and Computer Engineering

Joseph Ryan Murphy
Electrical and Computer Engineering

Joseph Francis Murray Jr.
Electrical and Computer Engineering

Syed Ayaz Naeem
Electrical and Computer Engineering

Hung Quoc Ngo
Power Systems Engineering

Moses Ipamu Okokuro
Power Systems Engineering

Silas A. Osobajo
Electrical and Computer Engineering

Hayley Marie Patton
Systems Engineering

Jason A. Ploof
Power Systems Management.

Emma Doksum Pruitt
Electrical and Computer Engineering

John James Puksta
Electrical and Computer Engineering

Matteo Puzella
Power Systems Engineering

Zachary Alexander Rattet
Electrical and Computer Engineering

Louis Albert Reid
Systems Engineering

Keryn Stephenie Reno
Systems Engineering

Angelo S. Rivera
Systems Engineering

Larri Ann Rosser
Systems Engineering

Christopher James Ryan
Systems Engineering

Sean Peter Ryan-Kut
Systems Engineering

Evan Emil Sauter
Electrical and Computer Engineering

Wudu Seidu
Power Systems Engineering

Yu-ping Shao
Electrical and Computer Engineering

Anna Shi
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Sabriya Zaynab Silva
Systems Engineering

Marissa Simonelli
Power Systems Engineering

Peter John Smith
Electrical and Computer Engineering

Tyler Sean Sniezek
Systems Engineering

Robert M. Starr
Electrical and Computer Engineering

Troy W. Strassburg
Electrical and Computer Engineering

Donovan J. Tames
Electrical and Computer Engineering

Gregory G. Tighe
Electrical and Compu.ter Engineering

Sylvain William Timagni Koagne
Systems Engineering

Max Chak Ming To
Electrical and Computer Engineering

Tuna Berk Tufan
Electrical and Computer Engineering

Isaac Allan Tufts
Electrical and Computer Engineering

Surya Teja Vadlamani
Electrical and Computer Engineering

Zachery R. Van Ness
Electrical and Computer Engineering

Alexander Richard Vesey
Systems Engineering

Joseph Quay Williams
Systems Engineering

Helen Wu
Power Systems Engineering

Shangjin Zhong
Electrical and Computer Engineering

FIRE PROTECTION ENGINEERING DEPARTMENT

Michael J. Biando
Fire Protection Engineering

Karen Kitahara Bouchard
Fire Protection Engineering

Sullivan Varon Boyd
Fire Protection Engineering

Frederick Mallory Brokaw
Fire Protection Engineering

Anna Christine Correia
Fire Protection Engineering

Nathan J. Crock
Fire Protection Engineering

Amanda R. DaCosta
Fire Protection Engineering

Madison Lindsay Di Vico
Fire Protection Engineering

Morgan M. Emery
Fire Protection Engineering

Weixuan Gong
Fire Protection Engineering

Mahesh Shankar Kottalgi
Fire Protection Engineering

Chew Ming Clayton Lim
Fire Protection Engineering

Hannah Elizabeth Murray
Fire Protection Engineering

Gillian Therese Nadeau
Fire Protection Engineering

H. Jacob Nunnemacher
Fire Protection Engineering

Nihal Patel
Fire Protection Engineering

Steven D. Peterman
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Sofia Reyes Castillo
Fire Protection Engineering

Alexandra Gladys Scariati
Fire Protection Engineering

Joshua D. Thomas
Fire Protection Engineering

Samantha L. Wile
Fire Protection Engineering

Nadeem Hashem Jabr Zaid Alkeelani
Fire Protection Engineering

MECHANICAL AND MATERIALS ENGINEERING DEPARTMENT

Matheus Abreu Amaro
Mechanical Engineering

Anthony Michael Arace
Mechanical Engineering

Michael James Arbore
Mechanical Engineering

Alexandria Rose Baker
Mechanical Engineering

Abbey Lynn Blauser
Mechanical Engineering

Matthew Joseph Braccio
Mechanical Engineering

Elliana Budri
Mechanical Engineering

Patrick Nicholas Chernjavsky
Mechanical Engineering

Conner Duncan Christensen
Mechanical Engineering

Gabrielle Clarke
Mechanical Engineering

Kathleen Danielle Kerr Cochran
Mechanical Engineering

Emily Madison Coughlin
Mechanical Engineering

Siddhant S. Damle
Mechanical Engineering

Rajkumar Sherring Dandekar
Mechanical Engineering

Robert Lamont Belknap Duff
Mechanical Engineering

Claudia Rose Dufour
Mechanical Engineering

Peter Carl Fagerholm
Mechanical Engineering

Gehn D. Ferguson
Materials Science and Engineering

Grace M. Fitzpatrick-Schmidt
Materials Science and Engineering

Amanda Marie Forgione
Mechanical Engineering

Emily Ann Giancola
Mechanical Engineering

Jordan Obre Gomes
Manufacturing Engineering

Brendan P. Green
Mechanical Engineering

Alana Tuyen Guilbault
Mechanical Engineering

Evan Christian Hallberg
Mechanical Engineering

Sarah Fadi Homsy
Mechanical Engineering

William Laydon Hopkins
Mechanical Engineering

Nathaniel Douglas Hudson
Manufacturing Engineering

Alexander J. Jensen
Mechanical Engineering

Caitlin Mary Kean
Mechanical Engineering

Rowan A. Labaugh
Mechanical Engineering

Danielle Christen LaBlanc
Mechanical Engineering

Alexander A. Laprade
Mechanical Engineering

Anthony Mark Leno
Mechanical Engineering

Chuhao Li
Materials Science and Engineering

Hannah Mei Yao Lindsey
Mechanical Engineering

Ashton Hunter Lyon
Mechanical Engineering

Tessa Quinn Lytle
Mechanical Engineering

Jared Paul Majcher
Materials Science and Engineering

Rebecca Jo Marion
Mechanical Engineering

Christopher Michael Martenson
Mechanical Engineering

Macey Christina McEnaney
Mechanical Engineering

Fiona D. McEvilly
Mechanical Engineering

Brandon Ward McLaughlin
Materials Science and Engineering

Ningran Meng
Manufacturing Engineering

Kelly Alexis Miller
Mechanical Engineering

Nicolo Toma Miragliotta
Mechanical Engineering

Katherine Renee Morissette
Mechanical Engineering

Evan Muzilla
Mechanical Engineering

Ross Ian Myerson
Mechanical Engineering

Nathan Chun-Tin Ng
Mechanical Engineering

Lauren Elizabeth Paul
Mechanical Engineering

Everest Jordan Peacock
Materials Science and Engineering

Zhenyu Peng
Mechanical Engineering

Eileen Marie Piombino
Materials Science and Engineering

Jason Elliot Porter
Materials Science and Engineering

Nicholas Christopher Poulos
Materials Science and Engineering

Mitch Nolan Read
Mechanical Engineering

John Reh Riley
Mechanical Engineering

Chaitanya Ruhatiya
Materials Science and Engineering

Adam Christopher Saar
Manufacturing Engineering

Dawson Baker Scheid
Mechanical Engineering

Julia Irene Sheats
Mechanical Engineering

Kazimir Donald Sheputa
Mechanical Engineering

Trevor Alexander Shrady
Mechanical Engineering

Harrison Kaspern Smith
Mechanical Engineering

Jane Margaret Spear
Mechanical Engineering

Liam Alexander Spence
Mechanical Engineering

Benjamin Marshall Spooner
Mechanical Engineering

Marisa Nicole Sposato
Manufacturing Engineering

David Russell Stephens
Mechanical Engineering

Thomas A. Sterrett
Mechanical Engineering

Molly Ellen Sykes
Mechanical Engineering

Alyssa Rose Tepe
Mechanical Engineering

Calvin Robert Thomas
Mechanical Engineering

Kaitlin Rose Tripi
Mechanical Engineering

Dylan Atar Turetsky
Mechanical Engineering

Valentina Vacarez Restrepo
Mechanical Engineering

Dineille K. Villaroel
Manufacturing Engineering

Martin H. Wadzinski
Mechanical Engineering

Chaoran Wang
Materials Science and Engineering

Nicholas James Watkins
Materials Science and Engineering

Marc Wicky van Doyer
Mechanical Engineering

Brian Kenneth Wilkinson
Manufacturing Engineering

Kelsey May Wilkinson
Mechanical Engineering

Yash Yadati
Mechanical Engineering

Jason M. Yanaros
Mechanical Engineering

ROBOTICS ENGINEERING DEPARTMENT

Arsalan Akhter
Robotics Engineering

Ravi Teja Alapati
Robotics Engineering

Fadi Alladkani
Robotics Engineering

Rahul Allam
Robotics Engineering

Brandon C. Asencio
Robotics Engineering

Youness Bani
Robotics Engineering

Sushmitha Belede
Robotics Engineering

Prathamesh Kiran Bhamare
Robotics Engineering

Hitesh Bhojwani
Robotics Engineering

Gaurav Rajendra Bhosale
Robotics Engineering

Denny Boby
Robotics Engineering

Chaithanya Krishna Bodduluri
Robotics Engineering

Rutwik Rajesh Bonde
Robotics Engineering

Matthew Boudreau
Robotics Engineering

Michael John Browne
Robotics Engineering

Yihao Cai
Robotics Engineering

Gabrielle Grace Conard
Robotics Engineering

Winston Lamar Crosby
Robotics Engineering

Harshavardhan Dammalapati
Robotics Engineering

Devesh Bharat Datwani
Robotics Engineering

Peter Jonathan Dentch
Robotics Engineering

Fenil Desai
Robotics Engineering

Rushikesh Pramod Deshmukh
Robotics Engineering

Amey Anil Deshpande
Robotics Engineering

Tanmay Rajendra Dhasade
Robotics Engineering

Jorge Abraham Díaz Barreto
Robotics Engineering

Christopher James Dickson
Robotics Engineering

Krishna Sathwik Durgaraju
Robotics Engineering

Gary G. Encinas
Robotics Engineering

Andrew G. Euredjian
Robotics Engineering

Tian Yu Fan
Robotics Engineering

Yiran Fang
Robotics Engineering

Dominic Robert Ferro
Robotics Engineering

James Edward Flaherty
Robotics Engineering

Ezekiel Fitzpatrick Flaton
Robotics Engineering

Eleanor Delia Foltan
Robotics Engineering

Justin Carl Fossum
Robotics Engineering

Febin Fredi
Robotics Engineering

Gage Emerson Froelich
Robotics Engineering

Alexander Demetrius Galván
Robotics Engineering

Kishor Sabarish Ganapathy Subramanian
Robotics Engineering

Tianyang Gao
Robotics Engineering

Yash Ajay Garje
Robotics Engineering

Himanshu Gautam
Robotics Engineering

Vaishnavi Vivek Gejji
Robotics Engineering

Lorena Maria Genua
Robotics Engineering

Demargio D. Glanville
Robotics Engineering

Shreyansh Goyal
Robotics Engineering

Verónica Patricia Grefa Aguinda
Robotics Engineering

Spencer Orion Gregg
Robotics Engineering

Tahir Can Gungor
Robotics Engineering

Avnish Gupta
Robotics Engineering

Justin R. Hall
Robotics Engineering

Aislin Jace Hanscom
Robotics Engineering

Akshay Kumar Harikrishnan
Robotics Engineering

Zhanhong Huang
Robotics Engineering

Aditya Rameshbhai Jagani
Robotics Engineering

Ritik Alpesh Jain
Robotics Engineering

Pinak Hitesh Jani
Robotics Engineering

Pratik Jawahar
Robotics Engineering

Ajith Kumar Jayamoorthy
Robotics Engineering

Emmanuel Jayaraju
Robotics Engineering

Kohmei Kadoya
Robotics Engineering

Shreyas M. Kanjalkar
Robotics Engineering

Abhay Chhagan Karade
Robotics Engineering

Durga Prakash Karuppannan
Robotics Engineering

Chinmay Sunil Kate
Robotics Engineering

Brian Joshua Katz
Robotics Engineering

Chinmaya Khamesra
Robotics Engineering

Charles Van Kittler
Robotics Engineering

Phillip U Konyeaso
Robotics Engineering

Karter Krueger
Robotics Engineering

Nithin Senthur Kumar
Robotics Engineering

Pratik Surendra Kumbhare
Robotics Engineering

Ashwij Kumbla
Robotics Engineering

Wen-Yi Kuo
Robotics Engineering

Akshay Mahesh Laddha
Robotics Engineering

Marissa Elizabeth Langille
Robotics Engineering

Matthew K. Langkamp
Robotics Engineering

Derek Bjorn Larson
Robotics Engineering

Curtis K. Lee
Robotics Engineering

Tyler Christopher Looney
Robotics Engineering

Krishna Satyanarayan Madhurkar
Robotics Engineering

Atharva Ajay Mahindrakar
Robotics Engineering

Shubham Malhotra
Robotics Engineering

Sameer Malik
Robotics Engineering

Piyush Pravin Malpure
Robotics Engineering

Antoinette Grace Mavrotheris
Robotics Engineering

Benjamin James Mayeux
Robotics Engineering

Jash J. Mehta
Robotics Engineering

Neet Mehulkumar Mehta
Robotics Engineering

Archie Gibson Milligan
Robotics Engineering

Pranav Moorthy
Robotics Engineering

Jesse Elia Morzel
Robotics Engineering

Apratim Mukherjee
Robotics Engineering

Jason Paul Munger
Robotics Engineering

Dante Alexander Muzila
Robotics Engineering

Monika Sri Vyshnavi Nagalla
Robotics Engineering

Kunal Gajanan Nandawar
Robotics Engineering

Jasman Deep Singh Narnag
Robotics Engineering

Sagarkumar Jagdishbhai Panchal
Robotics Engineering

Ritwik Pandey
Robotics Engineering

Suketu Parekh
Robotics Engineering

Nikunj Arvindbhai Parmar
Robotics Engineering

Dhruv Shaileshbhai Patel
Robotics Engineering

Prasham Patel
Robotics Engineering

Purna Raxit Manisha Patel
Robotics Engineering

Purvang Prakashbhai Patel
Robotics Engineering

Aditya Dilip Patil
Robotics Engineering

Jidnyesha Vijaykumar Patil
Robotics Engineering

Yash Rajendra Patil
Robotics Engineering

Sumanth Varma Pericherla
Robotics Engineering

Knut A. Peterson
Robotics Engineering

Prajwal Giriya Poojari
Robotics Engineering

Christopher Harrison Poole
Robotics Engineering

Jatin Prabhakar
Robotics Engineering

Sailesh Rajagopalan
Robotics Engineering

Harishkumar Ramadhas
Robotics Engineering

Anagha Ramaswamy
Robotics Engineering

Bharath Kumar Ramesh Babu
Robotics Engineering

Bhushan Ashok Rane
Robotics Engineering

Parthsarthi Rawat
Robotics Engineering

Alfredo Rodríguez Díaz
Robotics Engineering

Aakash Rohra
Robotics Engineering

Pratyush Kumar Sahoo
Robotics Engineering

Shawn Salvatto
Robotics Engineering

Javier Alonso Sanguinetti
Robotics Engineering

Nachiket Yogesh Sant
Robotics Engineering

Ghokulji Selvaraj
Robotics Engineering

Aadiv Shah
Robotics Engineering

Keval Tushar Shah
Robotics Engineering

Samarth Shah
Robotics Engineering

Kshitij Sharma
Robotics Engineering

Abhishek Ulhas Shivdeo
Robotics Engineering

Sumukh Sreenivasarao Balakrishna
Robotics Engineering

Dharshun Sridharan
Robotics Engineering

Shivaram Srikanth
Robotics Engineering

Gokul Srinivasan
Robotics Engineering

Lauren Elise Stanley
Robotics Engineering

Andrew A. Strauss
Robotics Engineering

S. Adam Stringham
Robotics Engineering

Nihal Suneel Navale
Robotics Engineering

Shiva Kumar Tekumatla
Robotics Engineering

Augustus Taylor Teran
Robotics Engineering

Akash Ashok Thorat
Robotics Engineering

Chinmay Madhukar Todankar
Robotics Engineering

Krutarth Ambarish Trivedi
Robotics Engineering

Puru Upadhyay
Robotics Engineering

Brian Valentino
Robotics Engineering

Akaash Varatharajan
Robotics Engineering

Harin Vashi
Robotics Engineering

Ankit Vijay Vedak
Robotics Engineering

Rohith Venkataramanan
Robotics Engineering

Sairam Venkataramani
Robotics Engineering

Nathanael James Vickery
Robotics Engineering

Rohan Walia
Robotics Engineering

Varun Ajay Walimbe
Robotics Engineering

Ethan Robert Wilke
Robotics Engineering

Kehan Yang
Robotics Engineering

The names published in this Commencement program were determined from information available at the time of creation, which preceded the faculty vote on degrees. Inclusion of a name in the program is not testimony to completion of WPI's degree requirements and does not commit WPI to award a degree.

GRADUATE HONORS & AWARDS

SIGMA XI GRADUATE RESEARCH AWARDS

Outstanding Doctoral Dissertations

Devdip Sen, *Ph.D. in Electrical and Computer Engineering*
"Mixed Analog-Digital Signal Techniques for Wearable Medical Sensors in Healthcare Applications." "
Advisors: John McNeill and Ulkuhan Guler

This award, established in 1983, is presented for outstanding research by students at the doctoral and master's levels and is sponsored jointly by the Society of the Sigma Xi and the Committee on Graduate Studies and Research.

GRADUATE RESEARCH INNOVATION EXCHANGE FIRST PLACE AWARDS

AEROSPACE, MANUFACTURING, MECHANICAL, CIVIL & ENVIRONMENTAL, AND FIRE-PROTECTION ENGINEERING

Zahra Noori O'Connor, *Mechanical Engineering*
"CFD Simulation of the Onset of Ultrasonic Atomization and Resultant Droplet Size"
Advisors: Aswin Gnanaskandan, Jamal Yagoobi

BUSINESS AND SOCIAL SCIENCE

Varun Bhat, *Social Science*
"Worcester Area Green Online Network: Supporting the Green Worcester Plan with Digital Tools"
Advisor: Sarah Strauss

Gaayathri Sankar, *Business Administration*
"Developing and Automating Personas for Designing Personalized Health Interventions"
Advisors: Soussan Djamasbi, Yunis Telliel

CHEMICAL ENGINEERING AND MATERIAL SCIENCES

Lily Gaudreau, *Chemical Engineering*
"Development of a Staphylococcal Biofilm Infection Model for Evaluating Biofilm Formation at the Host- Pathogen Interface"
Advisor: Elizabeth Stewart

Munstasir Shahabuddin, *Chemical Engineering*
"Making the Non-Conductive Conductive: Lifting Chemical Barriers in Flow Batteries with Conductive Particles"
Advisors: Andrew Teixeira, Xiaowei Teng

DATA SCIENCE, CYBERSECURITY, AND COMPUTER SCIENCE

Marcela Vasconcellos, *Data Science*
"Matching Refugees to Employment Opportunities via Many-to-Many Optimization"
Advisor: Andrew Trapp

LIFE SCIENCES AND BIOENGINEERING

Bryanna Samolyk, *Biomedical Engineering*
"Fibrin Scaffolds with Tunable Anisotropic Porosity Direct Myoblast Orientation"
Advisors: George Pins, Catherine Whittington

Hamilton White, *Biomedical Engineering*
"Impact of Traumatic Brain Injury on Sensory Neural Function, Behavior, and Neural Structure in C. elegans"
Advisor: Dirk Albrecht

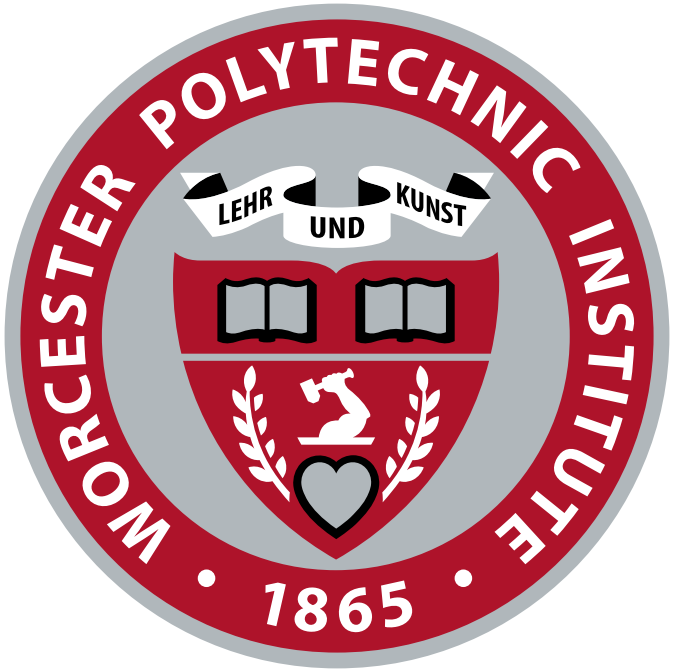
MATHEMATICAL, CHEMICAL, AND PHYSICAL SCIENCES

Joshua Dickie, *Physics*
"Active Fluid in a Confined Moving Boundary"
Advisor: Kun-Ta Wu

Derek Drumm, *Applied Mathematics*
"Determining Flow Obstacles from Lagrangian Coherent Structures"
Advisor: Sarah Olsen

ROBOTICS, CYBERPHYSICAL SYSTEMS, ELECTRICAL & COMPUTER ENGINEERING

Ryo Murakami, *Robotics Engineering*
"MRI-compatible Photoacoustic/Ultrasound Device for Three-Dimensional Tri-modal Imaging"
Advisor: Haichong Zhang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