

The One Hundred Fifty-Third

COMMENCEMENT CEREMONIES

------GRADUATE CEREMONY -----

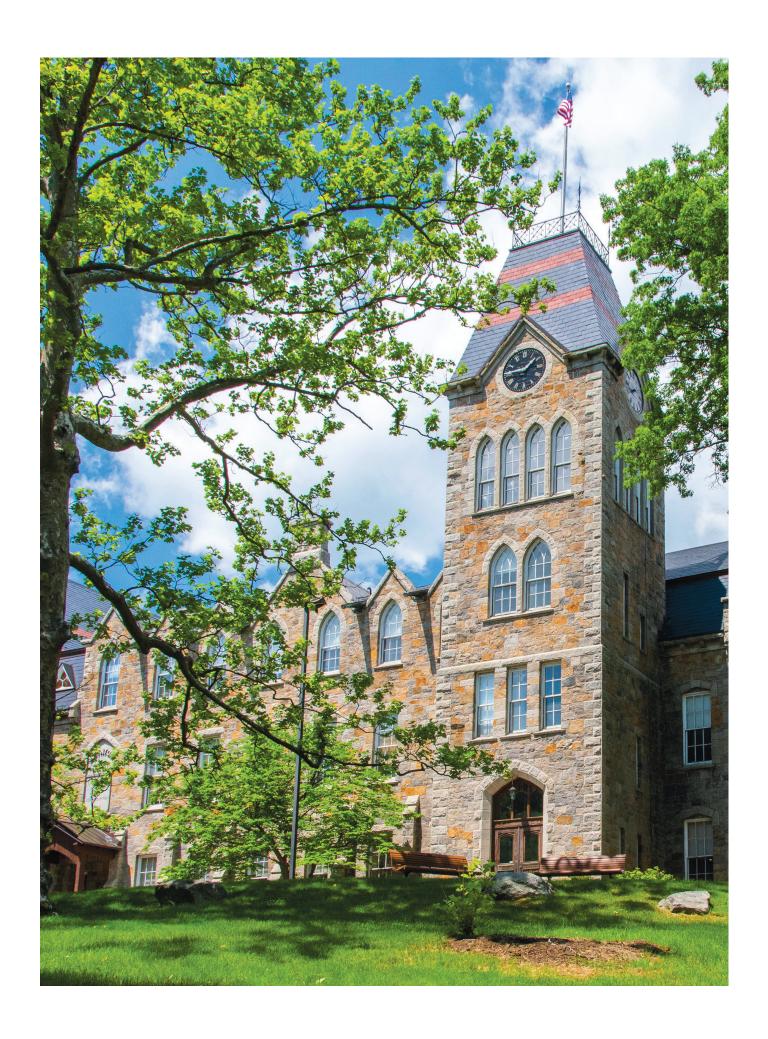
Five O'Clock • Thursday the Twelfth of May
Two Thousand Twenty-Two

— UNDERGRADUATE CEREMONY ——

Ten O' Clock • Saturday the Fourteenth of May Two Thousand Twenty-Two

WPI Quadrangle

WORCESTER POLYTECHNIC INSTITUTE





GRADUATE CEREMONY PROGRAM

Prelude WPI Brass Ensemble

Douglas Olsen, Conductor

Processional Led by the Respective Honorary Marshal

Full details begin on page 4

Call to Order William A. Fitzgerald

Chairman, WPI Board of Trustees

National Anthem WPI Chorus

Joshua W. Rohde, Conductor

The audience is invited to join in the singing

Charge from the President Laurie A. Leshin

Student Remarks "Resilience"

Merzia Naeem Adamjee (MS) '22

Recognition of Faculty Award Recipients William A. Fitzgerald

Conferring of Honorary Degrees President Leshin

Commencement Address Sethuraman Panchanathan, PhD

Director, National Science Foundation (NSF)

Presentation of Candidates for Degrees Terri A. Camesano, Dean of Graduate Studies

Conferring of Degrees President Leshin

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.



UNDERGRADUATE CEREMONY PROGRAM

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Charge from the President Laurie A. Leshin

Student Remarks "Reflect on the past. Celebrate the present.

Focus on the future." Nicole Conill '22

Presentation of Senior Class Gift Tyreese James

Eliza Smith

Recognition of ROTC Graduates President Leshin

Recognition of Faculty Award Recipients Winston Soboyejo, Provost

Conferring of Honorary Degrees President Leshin

Commencement Address Rochelle Walensky, MD, MPH

Director, Centers for Disease Control and Prevention (CDC)

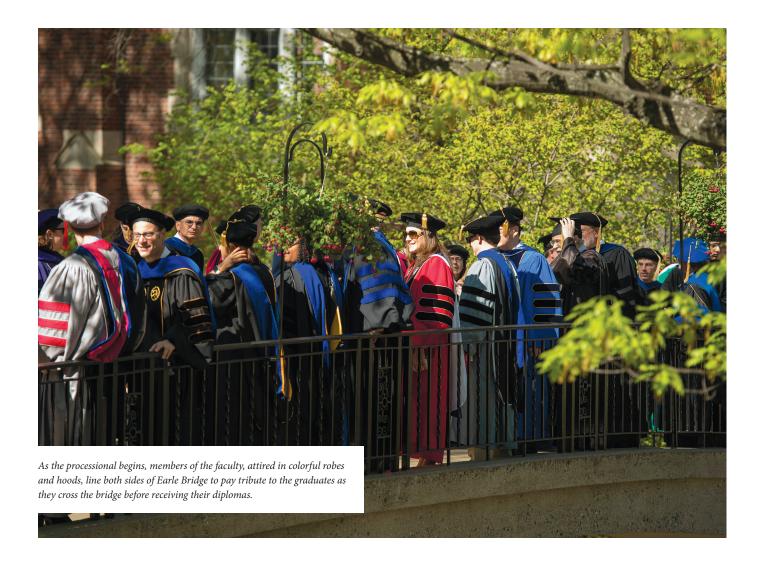
Presentation of Candidates for Degrees Arthur C. Heinricher, Dean of Undergraduate Studies

Conferring of Degrees President Leshin

Remarks from the Alumni Association Paula Delaney '75, President

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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 12; bachelor's degree recipients will receive their diplomas on Saturday morning, May 14.

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.

The Undergraduate Senior Class Gift is presented by gift committee chairs Eliza Smith and Tyreese James. The Senior Class raised more than \$17,000 with 18 percent participation from the class. This year's gift will create a hammocking space near the Rubin Campus Center. The aim is to promote a positive campus atmosphere by providing a space for students to spend time and meet with friends and classmates outside of an academic setting. We have enduring gratitude for the generosity of Win Piem, Class of 1959, and his wife, Susan, who established the Susan S. and Windle B. Priem '59 Senior Class Gift Challenge to inspire senior class giving and participation. Win passed away in August 2020 but his legacy will live on at WPI.

PROCESSIONAL AND RECESSIONAL

Graduate 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). Undergraduate students begin lining up at 8:30 am for the processional, which steps off at approximately 9:35 am (the ceremony itself starts at 10:00 am). 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 Sports and Recreation 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 **Dmitry Korkin**, professor of computer science and winner of the 2022 Trustees' Award for Outstanding Research and Creative Scholarship. Serving as honorary marshal for the Undergraduate Ceremony is **Alexander M. Wyglinski**, professor and associate dean of Graduate Studies and winner of the 2022 Trustees' Award for Outstanding Advising. **George Heineman**, teaching professor in Undergraduate Studies is the winner of the 2022 Trustees' Award for Outstanding Teaching. The baton they carry is the walking stick of WPI founder John Boynton.

President Leshin 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 the parents and guests want that perfect picture! WPI will be providing each student two digital photos taken by a professional photographer (GradImages). One will be taken when they receive their diploma from President Leshin, and

the second one will be take at Stage Right, where students will pose with their diploma. There is no cost for these downloadable photos. **For more information about the photo service**, you may call 1-800-261-2576, email *giservice@gradeimages.net*, or check online at *gradimages.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 Commencement ceremonies 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 may even 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 may download it at *wpi.edu/+mobile*.







CHAIRMAN'S PRIZE RECIPIENT Michael B. Elmes

The 2022 Board of Trustees Chair's Exemplary Faculty Award is presented to a colleague whose creative, conscientious, and deeply human approach to research and teaching and whose longstanding commitment through service to WPI mark him as a true exemplar of WPI's highest aspirations and most important qualities.

Professor Michael Elmes, Professor of Organizational Behavior and Change in The Business School at WPI, is known to his students as thoughtful, engaging, and profound—whether by encouraging their honest

reflections on their moral values or by facilitating lively class-room experiments to reveal and understand group dynamics. Former students credit him with helping them make principled decisions after starting their own careers, and with instilling in them an ethical framework that endures.

With over 4,000 citations, Professor Elmes's scholarship on narrative and the social construction of knowledge has been widely influential both in theory and in practice with lasting impact. From his classic 1997 paper on using narrative to understand the construction of strategy in organizations, to his many research projects that seek to understand and interpret human and organizational behaviors, Professor Elmes's work is relevant to such serious global challenges as climate change, hunger, and economic inequality.

A dedicated contributor to campus life through his extensive involvement on faculty governance committees, faculty task forces, search committees, and curriculum committees, Professor Elmes has devoted not only time but deep thought to the purpose of his service—to support WPI and its Business School with developing globally responsible leaders and to use education to make communities around the world more aware, ethical, capable, and kind.



Professor Elmes is an exemplar of the WPI faculty, precisely because his professional activities cannot be neatly separated from one another. His integrative and boundary-spanning approach to scholarship, teaching, and service is most clearly illustrated in his 17-year involvement with New Zealand, beginning with his 2005 Fulbright work studying narratives about genetic engineering research and deepening when he co-founded WPI's Wellington, New Zealand Project Center in 2011.

In his 12 years as Director, the Wellington Project Center has shaped Professor Elmes as

he has shaped it, bringing his focus on social justice to the global problems associated with food supply and food insecurity, the modern phenomena of social innovation and entrepreneurship, the challenges of addressing climate change and conservation, and, most recently, the concerns of New Zealand's Māori natives.

The Executive Director of Fulbright New Zealand has described Professor Elmes as one of their most successful Fulbright Scholars for maximizing the opportunities of the award, using it for its greatest purpose, and demonstrating for others what a Fulbright scholar should be: daring and creative in their academic endeavors, engaging and embracing of the broadest aspects of the award, and serving as a global ambassador of the US to increase vital understandings between nations.

For his devotion to all the activities that define the role of a faculty member, for his actions to advance social justice and social innovation, and for his ability to integrate his activities and actions to support and strengthen the others, and for a career of near-perfect balance, WPI is proud to recognize Professor Michael Elmes as the recipient of the 2022 Board of Trustees Chair's Exemplary Faculty Award.

-William A. Fitzgerald, Chairman, WPI Board of Trustees

The Chair's Exemplary Faculty was established in 2007 through the personal philanthropy of Donald K. Peterson '71, former chair of the WPI Board of Trustees. Current Board Chair William A. Fitzgerald is proud to continue the tradition established by Mr. Peterson.

GRADUATE CEREMONY HONORARY DEGREE RECIPIENT -

Sethuraman Panchanathan, PhD

Director, National Science Foundation • Honorary Doctor of Science

Sethuraman Panchanathan—or Dr. Panch—was named the 15th director of the National Science Foundation in 2020—just months after analysts were reporting a 100-year low in US productivity and that future growth would require new and different ways of translating science into innovations

and inventions. He has taken on the challenge. Two months ago, the NSF launched the first new directorate in 30 years—Technology, Innovation, and Partnerships—and its goal is to help research get turned into products. For those who know Dr. Panch, neither this concept nor this speed of innovation is surprising; it's what's expected of him.

A computer scientist and engineer, Dr. Panch has built a distinguished career in both higher education and government. He adamantly believes in the power of curiosity and that "... the innovative spirit, the exploratory spirit ... this mindset is in everyone." And he has made it part of his purpose to open doors for all those minds, focusing on the importance of making inclusive investments in STEM education to address the "missing millions"—those who are capable of succeeding as scientists and engineers, but do not have access With such a profound absence leaving a critical gap for our nation, he sees diversity and inclusion as a key step toward enabling the country's STEM enterprise to thrive in the coming decades.

Dr. Panch points to his "scientist explorer" father as having led him to see and feel the possibilities that are borne when science, technology, and the human innovative spirit come together. He believes that intention unleashes the power of innovation, that we must create environments where people can fail and fail fast, ecosystems where scientists, engineers, and their partners are challenged to unleash their innovative abilities to solve problems that matter.



This belief seems to have fueled his many accomplishments; starting his career at Arizona State University, he founded the Center for Cognitive Ubiquitous Computing, he founded and led the School of Computing and Informatics and the Department of Biomedical Informatics, and he was

appointed ASU's Chief of Research and Innovation. During his tenure, ASU's research volume quintupled, and *U.S. News and World Report* named it Most Innovative University for five consecutive years.

Throughout his career, Dr. Panch designed and built knowledge enterprises to advance research innovation, strategic partnerships, entrepreneurship, global development, and economic growth. His scientific contributions have advanced the areas of human-centered multimedia computing, haptic user interfaces, person-centered tools, and ubiquitous computing technologies for enhancing the quality of life for individuals with different abilities; machine learning for multimedia applications; medical image processing; and media processor designs.

Considered a transformational leader whose human-centered efforts have led to positive changes on a global scale, he considers challenges to be opportunities to rethink and find new ways to contribute. Not surprisingly, Dr. Panch sees partnerships and innovation as the key factors to the NSF's—and the nation's—success.

For his exceptional contributions to science, engineering, innovation, entrepreneurship, and eduction; his ceaseless quest for partnership and inclusion; his stewardship for this nation's research enterprise; and his dedication to sparking STEM engagement, creative power, and innovative mindsets of young people everywhere, WPI is proud to confer on Sethuraman Panchanathan the degree of Doctor of Science, *Honoris Causa*.

UNDERGRADUATE CEREMONY HONORARY DEGREE RECIPIENT -

Harriette L. Chandler, PhD, MBA

Massachusetts State Senator • Honorary Doctor of Humane Letters

From the beginning of her 27-year tenure in the Massachusetts Legislature, Chandler has been a friend to education at all levels and a stalwart supporter of the Massachusetts Academy of Math and Science at WPI. Early on, she recognized the unique value the Mass Academy brought to

the region and the commonwealth, and she became one of the school's most stalwart champions. Her effective advocacy and skillful legislative action helped ensure critical support for the Mass Academy, enabling it to achieve and maintain national and state recognition for its programs.

She organized listening sessions for her State House peers and legislative leaders at the Mass Academy so they could better appreciate how graduates of the school contribute to the commonwealth's economy, and she hosted our students and faculty at the State House so those in influence could learn about their many achievements.

Chandler is an unwavering champion for STEM program funding—especially programs for young women interested in STEM careers. She supported critically important funding for



programs such as the Massachusetts Life Sciences Center and the Massachusetts Manufacturing Innovation Initiative (M2I2), which opened up new opportunities for funding WPI research initiatives—in particular, significant funding for Practice Point and the Lab for Education and

Application Prototypes (LEAP).

The first woman from Worcester elected to the Massachusetts State Senate, Chandler is a remarkable role model for young women interested in public or community service. She was awarded the Arthur E. Chase Award in 2008 to recognize her outstanding service to the students of the Massachusetts Academy of Math & Science at WPI.

Today, as the Academy is about to recognize its 30th anniversary, for its distinguished leadership of a vital Worcester institution, its passion for making miracles happen in the lives of others, and its inspiring example to generations of WPI students, faculty, and staff, it is WPI's honor to confer on Senator Harriette L. Chandler the Degree of Doctor of Humane Letters, *Honoris Causa*.

UNDERGRADUATE CEREMONY HONORARY DEGREE RECIPIENT -

Rochelle P. Walensky, MD, MPH

Director, Centers for Disease Control and Prevention • Honorary Doctor of Science

Dr. Rochelle Walensky is director of the U.S. Centers for Disease Control and Prevention, the national public agency that works to protect America from foreign and domestic health, safety, and security threats,; she is also administrator of the Agency for Toxic Substances and Disease Reg-

istry. She was appointed by President Joe Biden and began her tenure in January 2021, in the middle of an historic health crisis, the COVID-19 pandemic.

Dr. Walensky brought a unique blend of clinical and scientific expertise to the challenge of leading CDC. A physician, she was chief of infectious diseases at Massachusetts General Hospital from 2017 through 2020. She served as a professor of medicine at Harvard Medical School from 2012 to 2020 and conducted pioneering research that helped advance the national and global response to HIV and AIDS. She is a well-respected expert on deadly viruses and an author of nearly 300 scientific publications.

Before joining CDC, Dr. Walensky served as a member of a COVID-19 Advisory Board guiding the Commonwealth of Massachusetts in its pandemic responses. At WPI, we know her as a trusted adviser who served on the university's Medical Advisory Board early in the pandemic to help guide our efforts to keep our community together.

Her colleagues have described her as a spectacular scientist who understands equity and is deeply committed to improving public health and the kind of person whose presence fills a room. She grew up in Potomac, Maryland, with a talent for math and received her Bachelor of Arts from Washington University in St. Louis, her Doctor of Medicine from the Johns Hopkins School of Medicine, and her Masters of Public Health from the Harvard School of Public Health.

She is a past chair of the Office of AIDS Research Advisory Council at the National Institutes of Health and has served as an advisor to both the World Health Organization and the Joint United Nations Program on HIV/AIDS.

Her accomplishments are significant, but Dr. Walensky acknowledges that she has also, at times, fallen short, and her response to failure offers today's WPI degree candidates an important lesson. "My CV makes it look easy, but it hasn't always been," Dr. Walensky told Vogue in 2021. "For every paper or grant I have submitted, 80 to 90 percent of them have been rejected, which is why I tell my students they have to love the pursuit of the question."

For her exceptional contributions to science, research, medicine, and public health; her belief in the power of mentorship and the importance of paying it forward to the next generation; her unceasing commitment to using her knowledge and humanity—and gathering and collaborating with other great minds and talents—to address some of the most timely and important challenges facing the health and well-being of human kind; and her deep commitment to advocating and caring for the most vulnerable and underserved communities, WPI is proud to confer on Dr. Rochelle Walensky the degree of Doctor of Science, *Honoris Causa*.

UNDERGRADUATE CEREMONY PRESIDENTIAL MEDAL RECIPIENT

Lesley Small Zorabedian

Sometimes, someone needs to be the first—someone needs to be braver and stronger and more willing to take a risk, so that others may follow more easily in the path they forge

Lesley Small Zorabedian is one of those people. In 1968, she came to WPI as one of the first

undergraduate women to attend the university. She was one of two women students in a campus full of men, studying subjects believed by some to be unfit for women, preparing for careers in fields in which women were few and far between. Housing was not available to the first women students in 1968, nor was the rest of the physical campus generally accommodating to these new members of the student population. Yet, these obstacles were overcome and Leslie Small persevered, finding supportive faculty and fellow students to accompany her on her pioneering WPI journey.

The idea of women undergraduates at WPI seemed impossible to many in the WPI community at that time—the all-male undergraduate alumni, the current students, the faculty and ad-

ministration—not to all, but to many. She helped envision how the impossible could be made possible. That is what a trailblazer does—knowingly or not. She makes the impossible that much more attainable.

For proof, all you need to do is look at today's WPI. More than 40 percent of our undergraduate student body is women—and we strive to make that number even higher because we know that diverse teams create the best solutions. Our Women's Impact Network, a group of alumnae and friends focused on advancing women in STEM, has fundraised and distributed \$1.3 million in grants to faculty and students who are working to support women in STEM. And this is all because one person had the courage to be the first, to help the rest of us envision a different reality, one in which women have become such an integral part of the WPI community that this university could be led by a woman president.

For her historic impact on this university, WPI is pleased to confer upon Lesley Small Zorabedian the Presidential Medal.

GRADUATE CEREMONY 2022 STUDENT SPEAKER —

Merzia Naeem Adamjee

Computer Science MS '22

Merzia Naeem Adamjee received the Fulbright scholarship and joined WPI in the fall of 2020. Her diverse experiences at WPI have prepared her well for a career in tech and equipped her to leverage her knowledge of computer science. Her professors and peers know her as a student who conducts herself with poise and confidence, in addition to bringing new and challenging ideas to the conversation. Adamjee was an active member of the Graduate Student Government (GSG), and



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As part of her thesis at WPI, she rigorously researched and evaluated approaches to better predict hospital readmission of a patient previously admitted.

She worked for Colgate Palmolive Pakistan Limited for four years as an analyst in Trade Marketing. After graduation, she plans to return to Pakistan and direct her efforts in building Pakistan's emerging digital landscape. She enjoys being in the company of diverse and multi-cul-

tural individuals and looks forward to tackling the challenges of tomorrow with an open mind.

worked to transform the graduate experience by championing support for inclusivity and visibility of fellow graduate peers.

UNDERGRADUATE CEREMONY 2022 STUDENT SPEAKER -

Nicole Conill Computer Science '22

Nicole Conill is the recipient of a full scholarship through the federal CyberCorps: Scholarship for Service program and is dedicated to furthering the national cybersecurity mission. While serving as an executive member of the Cyber Security Club, she co-founded a student chapter of Women in Cyber Security at WPI. Her scholastic success includes multiple Dean's List honors, induction into Upsilon Pi Epsilon (the computer science honor society), and internships with The MITRE Cor-



poration and the U.S. Air Force. Nicole has supported the WPI Wrestling Team as a manager for three years and actively races motocross around New England. This summer and in her post-graduate employment after receiving her M.S. degree, Conhill will pursue her passion for cybersecurity in avionics. She is a proud member of the growing cybersecurity community and is thankful for her experiences and education at WPI.



DOCTOR OF PHILOSOPHY DEGREES

SCHOOL OF ARTS & SCIENCES

BIOLOGY & BIOTECHNOLOGY DEPARTMENT

Ying Zhou

Biology and Biotechnology

"The Role of RNase E in

Mycolicibacterium Smegmatis"

Advisor: Scarlet Shell

CHEMISTRY & BIOCHEMISTRY DEPARTMENT

Alexandria Nicole Leveille *Chemistry*

"Reactions of Sulfoxonium Ylides and Chromenones in Natural Product Synthesis and Drug Development" Advisor: Anita Mattson

Katherine M. Pearce *Chemistry*

"Effect of Extended Neurotransmitter Stimulation on Neuronal Stability"

Advisor: Suzanne Scarlata Awarded: August 30, 2021

Androniqi Qifti Biochemistry

"Caveolae Allow Smooth Muscles Cells to Adapt to Stress through the

Gαq/PLCβ Pathway" Advisor: Suzanne Scarlata

COMPUTER SCIENCE DEPARTMENT

Xin Dai

Computer Science

"Redesigning Deep Neural Networks for

Resource-Efficient Inference" Co-Advisors: Xiangnan Kong

and Tian Guo

Yu Liu

Computer Science

"Residential Network Security: Using Software-defined Networking to Inspect and Label Traffic"

Advisor: Craig Shue Awarded: December 30, 2021

Oleksandr Narykov Computer Science

"Modern Computer Science Approaches in Biology: From Predicting Molecular Functions to Modeling Protein

Structure"

Advisor: Dmitry Korkin

Sarun Paisarnsrisomsuk Computer Science

"Understanding Internal Feature Development in Deep Convolutional Neural Networks for Time Series"

Advisor: Carolina Ruiz Awarded: August 30, 2021

DATA SCIENCE PROGRAM

Narges Ahani Data Science

"Analytics for Refugee Resettlement"

Advisor: Andrew C. Trapp

Nitish Bahadur Data Science

"Dimension Estimation and Application

in Finance"

Advisor: Randy Paffenroth Awarded: December 30, 2021 Thomas William Hartvigsen

Data Science

"Prediction and Observation Timing in

Time Series Classification"

Co-Advisors: Elke Rundensteiner and

Xiangnan Kong

Awarded: December 30, 2021

Suhas Srinivasan Data Science

"Biological Discovery via Data Science: Multigranular Artificial Intelligence Approaches for Cells, Cerebra and

Cruise Ships"

Advisor: Dmitry Korkin

ML Tlachac Data Science

"Improving Mental Health Screening with Predictive and Generative Modeling of Text Messages" Advisor: Elke Rudensteiner

Pitchaya Wiratchotisatian

Data Science

"Essays in Mixed-Integer Nonlinear

Optimization for Matching

Applications"

Advisor: Andrew C. Trapp Awarded: August 30, 2021

Guojun Wu Data Science

"Complex Sequential Modeling"

Advisor: Yanhua Li Awarded: December 30, 2021

Hang Yin
Data Science

"Sparse Learning in Brain Networks and Brain-like Artificial Intelligence"

Advisor: Xiangnan Kong

Liang Zhang
Data Science
"Scalable Similarity Search over
Big Data Series"
Advisor: Mohamed Eltabakh

Yingxue Zhang

Data Science
"Spatial-Temporal Generative

Adversarial Learning"

Advisor: Yanhua Li

LEARNING SCIENCES & TECHNOLOGY PROGRAM

Avery Harrison Closser

Learning Sciences and Technology

"The Effects of Perceptual and
Embodied Features on Student Learning
and Performance in Online Platforms"

Advisor: Erin Ottmar

MATHEMATICAL SCIENCES DEPARTMENT

Xinvu Chen

Statistics
"Constraint Bayesian Inference
for Count Data from Small Areas"
Advisor: Balgobin Nandram
Awarded: December 30, 2021

Elisa Negrini
Mathematical Sciences
"Robust Deep Learning Algorithms for System Identification"
Advisor: Luca Capogna

Jiaxuan Ye

Mathematical Sciences

"Stochastic Controls in Competitions and Mean Field Games"

Advisor: Gu Wang and Stephan Sturm

Yi Yu
Mathematical Sciences
"Non-overlapping Spectral
Additive Schwarz Methods"
Advisor: Marcus Sarkis-Martins
Awarded: August 30, 2021

PHYSICS DEPARTMENT

Kateryna Kushnir Friedman *Physics*"Microscopic Conductivity and Ultrafast Photocurrents in Chalcogenides from 2D to 3D and Beyond"
Advisor: Lyubov Titova
Awarded: August 30, 2021

Guangjiang Li

Physics

"2D MXenes in the THz Range:
From Optical Conductivity to
THz Devices"

Advisor: Lyubov Titova

Awarded: August 30, 2021

THE BUSINESS SCHOOL

Shima Azizi
Business Administration
"Mixed Integer Linear and Nonlinear
Optimization for Disadvantaged
Populations with Accents of
Fairness and Balance"
Advisor: Andrew C. Trapp

Shiya Cao
Business Administration
"Examining Information SystemsEnabled Workplace Inclusion for
Disabled Employees"
Advisor: Eleanor Loiacono

Mahtab Kouhizadeh Business Administration "Blockchain Technology for Sustainable Supply Chain" Co-Advisors: Joseph Sarkis and Sara Saberi Awarded: August 30, 2021

SCHOOL OF ENGINEERING

AEROSPACE ENGINEERING DEPARTMENT

Xin Tian

Aerospace Engineering
"A Heterogeneous Non-Overlapping
Domain Decomposition Explicit
Finite Volume Method for Real-Time
Estimation of 3D Advection-Diffusion
Fields with a Sensing Aerial Vehicle"

Advisor: Nikolaos Gatsonis Awarded: August 30, 2021

BIOMEDICAL ENGINEERING DEPARTMENT

Alycia Anne Abbott

Biomedical Engineering

"Characterization and
Functionalization of Lyophilize
Silk Scaffolds for Use in 3D In
Vitro Disease Modeling"

Advisor: Jeannine Coburn

Awarded: August 30, 2021

Kianoosh Ghazi Biomedical Engineering "Applications of Machine Learning in Real-time Brain Tissue Strain Estimation"

Advisor: Songbai Ji Awarded: August 30, 2022

Jonian Grosha
Biomedical Engineering
"Generation and Dissemination of
a Mesenchymal Stem Cell-Derived
Functional Smooth Muscle Tissue"
Advisor: Marsha Rolle
Awarded: August 30, 2021

Emily Rose Robbins

Biomedical Engineering

"Creating a Functional Cardiac Patch
from Decellularized Spinach Leaves"
Advisor: Glenn Gaudette

Awarded: August 30, 2021

CHEMICAL ENGINEERING DEPARTMENT

Yuhan Mei

Chemical Engineering
"Atomistic Modeling of Key Factors
in Catalytic Ethanol Oxidation"
Advisor: N Aaron Deskins
Awarded: August 30, 2021

Ziyang Zhang
Chemical Engineering
"Colloidal Interaction of Cellulose
with Solid-Acid Catalyst and Its
Implications for Hydrolysis"
Advisor: Michael Timko
Awarded: December 30, 2021

Zhiru Zhou

Chemical Engineering

"Microfluidic Biosensor Devices for
Disease Monitoring and Cancer Study"

Advisor: H. Susan Zhou

CIVIL ENGINEERING DEPARTMENT

Yinduo Chen

Civil Engineering

"Identification and Quantification of
Inorganic Nanoparticles in Wastewater"

Advisor: John Bergendahl

Arvand MH Navabi

Civil Engineering

"Interfacial Adhesion and Deformation

Mechanisms in Hard and Soft Materials

using Molecular Dynamics"

Advisor: Nima Rahbar

ELECTRICAL & COMPUTER ENGINEERING DEPARTMENT

Lin Ba

Electrical and Computer Engineering "Autonomous Driving Perception System on FPGA" Advisor: Xinming Huang

Awarded: December 30, 2021

Raunak Mukund Borwankar Electrical and Computer Engineering "NDTNet: An End-to-End Design of an Optical Nondestructive Evaluation System for Metallic Objects on FPGA" Advisor: Reinhold Ludwig

Ian Matthew Costanzo
Electrical and Computer Engineering
"Analog/Mixed-Signal Techniques for
Luminescent Lifetime Estimation with
Applications in Transcutaneous Oxygen
Measurements"
Advisor: Ulkuhan Guler

Advisor: Ulkuhan Guler Kuldeep Singh Gill

Electrical and Computer Engineering
"Enhancing Vehicular Networking
Using Bumblebee Foraging Theory and
Signals of Opportunity"

Advisor: Alexander Wyglinski

Saad Islam

Electrical and Computer Engineering "Software-Induced Fault Attacks on Post-Quantum Signature Schemes" Advisor: Berk Sunar

Rahul Krishnan

Systems Engineering

"An Integrated System Design and
Safety Framework for Model-based
Safety Assessment"

Advisor: Shamsnaz Bhada

Awarded: December 30, 2021

Yecheng Lyu

Electrical and Computer Engineering

"2D Representation Learning of 3D

"2D Representation Learning of 3D Point Clouds in Segmentation and Localization for Autonomous Driving" Advisor: Xinming Huang

Awarded: December 30, 2021

Kyle William McClintick
Electrical and Computer Engineering
"Securing Physical Layer Passband
Signals via Machine Learning"
Advisor: Alexander Wyglinski

Luyao Niu

Electrical and Computer Engineering "Secure Control for Autonomous Cyber-Physical Systems Under Temporal Logic Constraints"

Advisor: Andrew Clark

Devdip Sen

Electrical and Computer Engineering "Mixed Analog-Digital Signal Techniques for Wearable Medical Sensors in Healthcare Applications" Co-Advisors: John McNeill and Ulkuhan Guler

Awarded: December 30, 2021

Yiming Zhao

Electrical and Computer Engineering
"Empowering Computer Vision Models
with Deep Learning for Robotic
Perception and Drone Geolocation"
Advisor: Xinming Huang
Awarded: December 30, 2021

FIRE PROTECTION ENGINEERING DEPARTMENT

Li Chang

Fire Protection Engineering
"The Influence of Turbulence on
Fuel Slick Fires with an Immersed
Conductive Object"
Advisor: Ali Rangwala
Awarded: December 30, 2021

Xiaoyue Pi
Fire Protection Engineering
"Pool Fire Burning Facilitated by
Subcooled Nucleate Boiling Heat
and Mass Transfer Processes"
Advisor: Ali Rangwala

MECHANICAL ENGINEERING DEPARTMENT

Ashley Chu

Mechanical Engineering

"Soft Robotic Gripper with Integrated
Perception and Autonomous
Classification"

Advisor: Cagdas Onal

Farzaneh Farhadi

Materials Science and Engineering
"New Methods to Deposit NickelAluminide Alloys as High Temperature
Protective Coatings on Stainless Steel"

Advisor: Richard Sisson Awarded: December 30, 2021

Reisya Ichwani

Materials Science and Engineering "New Frontiers for Perovskite Solar Cells: From Adhesion to Interfacial Fracture and Processing Effects on Device Performances"

Advisor: Winston Soboyejo

Xiaotu Ma

Materials Science and Engineering "Materials Recovery and Upgrade from Spent Lithium-ion Batteries"

Advisor: Yan Wang Awarded: August 30, 2021

Christopher Jeffrey Massar Materials Science and Engineering "A Comprehensive Feasibility Study on Gas-Atomized Feedstock Generated From Reclaimed Materials for Rapid Repair Applications"

Advisor: Danielle Cote

Bryer Casey Sousa

Materials Science and Engineering "Multiscale Indentation Mechanics for Advanced and Heterogenous Metallurgical Materials Processing-Structure-Properties-Performance (PSPP) Relations"

Advisor: Danielle Cote

Chase Logan St. Laurent Mechanical Engineering "Coupled Sensor Configuration and Path-Planning in Uncertain Environments Using Multimodal Sensors"

Advisor: Raghvendra Cowlagi

Michal Talmor

Mechanical Engineering

"Study of Small Scale EHD Driven
Flow Distribution Control and
Understanding of the Effect of
Temperature on EHD Conduction
Pumping Performance"
Advisor: Jamal Yagoobi

Haimi Tang

Mechanical Engineering
"High-Speed Shape and Displacement
Measurements by Holography and
Applications in Middle Ear Research"
Advisor: Cosme Furlong-Vazquez

Vanessa Obiageli Uzonwanne Materials Science and Engineering "New Frontiers for Triple Negative Breast Cancer Detection and Treatment: From Mechanical Biomarkers to Specific Nanoparticle Entry for Robotically Controlled Laser-Induced Hyperthermia"

Advisor: Winston Soboyejo

Panawan Vanaphuti

Materials Science and Engineering

"High Energy Manganese-Based
Layered Oxide Cathodes for LithiumIon and Sodium-Ion Batteries"

Advisor: Yan Wang

Xiangbin Wang

Materials Science and Engineering
"Understanding the Material Flow
Mechanisms, Microstructure Evolution,
and Mechanical Properties in Friction
Stir Welding of Dissimilar Metal Alloys"
Advisor: Diana Lados

Awarded: December 30, 2021

Yao Xi

Materials Science and Engineering
"Thermal Management for in-situ
Heat Treatment and Defects Mitigation
in Wire Arc Additive Manufacturing of
Maraging 250-Grade steel
Advisor: Brajenendra Mishra
and Sneha P. Narra

Mengqiao Yang
Mechanical Engineering
"Drying of Moist Porous Media
with Electrohydrodynamics and
Development of Novel Atomizer
for Spray Drying"
Advisor: Jamal Yagoobi

Songge Yang

Materials Science and Engineering
"The Novel Hybrid Model for the
Design of Al-Co-Cr-Ni-Fe High
Entropy Alloys (HEAs)"
Advisor: Yu Zhong

Zhaotong Yang
Manufacturing Engineering
"Developing Machine Learning
Models to Predict Influence of Heat
Treatments on the Tensile Properties
of Ti6Al4V Parts Prepared by
Selective Laser Melting"
Advisor: Jianyu Liang
Awarded: August 30, 2021

ROBOTICS ENGINEERING DEPARTMENT

Nathaniel Aaron Goldfarb Robotics Engineering "Development of a Lower Limb Exoskeleton and Application of Learning from Demonstrations for Controllers" Advisor: Gregory Fischer Kenechukwu Churchill Mbanisi Robotics Engineering "Towards Human-Centered Haptic Shared Autonomy for Assisted Driving Systems" Advisor: Michael Gennert







MASTER'S DEGREES

SCHOOL OF ARTS AND SCIENCES

BIOINFORMATICS & COMPUTATIONAL BIOLOGY PROGRAM

Jules Cazaubiel Bioinformatics and Computational Biology

Michael L. Corace Bioinformatics and Computational Biology

Nicholas Tourtillott Bioinformatics and Computational Biology

BIOLOGY & BIOTECHNOLOGY DEPARTMENT

Uwaifo Matthew Asemota *Biotechnology*

Daniel Bereznyakov *Biotechnology*

Gabrielle Jean Bitzas *Biotechnology*

Nick Bizios Biotechnology

Nicholas Christopher Brock

Biotechnology

Matthew A. Bruno Biology and Biotechnology

Samantha Lillian Carroll

Biotechnology

Serena Shivon David *Biotechnology*

Brianna Bridget Donnelly

Biotechnology
Elizabeth Ebitson
Biotechnology

Kristin R. Gothier *Biotechnology*

Amanda Rose Iandoli

Biotechnology

Hieu Trung La Biotechnology

Preston J. Lanier *Biotechnology*

Kim Thien Thuy Le *Biotechnology*

Monica Maria Lence

Biotechnology

Boyuan Liu

Biology and Biotechnology

Jiahao (Jacky) Lixue *Biotechnology*

Christopher Angevine McGillicuddy

Biotechnology

Daniele Lowell Menard

Biotechnology

Abigayle Christine Mrozinski

Biotechnology

Hammed Opeyemi Oseni

Biotechnology

Tyler A. Pearson Biotechnology Katerina Pela Biotechnology

Gregory A. Porter Biotechnology

Solimar Ramis de Ayreflor Reyes Biology and Biotechnology

Victoria Ashley Scott

Biotechnology

Daniel Adam Terry *Biotechnology*

Christopher Lealand Welsh

Biotechnology

Krista Westermayer *Biotechnology*

BIOSCIENCE MANAGEMENT PROGRAM

Mustaf Dhere Abdulkadir Bioscience Management

Paulina N. Andzie-Quainoo *Bioscience Management*

Luis Ariel Avila

Bioscience Management

Andres Felipe Berrio *Bioscience Management*

Richard Gabriel

Bioscience Management

Ronn C. Gerra

Bioscience Management

Andrene Gordon

Bioscience Management

Susan Guerette

Bioscience Management

David Felipe Gutiérrez Varón *Bioscience Management*

Patrick Jarred Knapp

Bioscience Management

Jessica M. Lievre *Bioscience Management*

Marci Murray

Bioscience Management

Caroline Nelson

Bioscience Management

Sherman Jafri Peoples *Bioscience Management*

Jessica A. Poisson Bioscience Management

Michael A. Prata Bioscience Management

Andrew Thomas Roberts *Bioscience Management*

Ashley L. Roulx Bioscience Management

Anne Lorey Rusk *Bioscience Management*

Cazim Saracevic Bioscience Management

Megan Joanna Sogard Bioscience Management

Victor WingTai Szeto Bioscience Management

Paul Edward Wasserzieher Bioscience Management

Benjamin Joseph Weirich *Bioscience Management*

Jason F. Wentworth *Bioscience Management*

CHEMISTRY & BIOCHEMISTRY DEPARTMENT

Leila Renee Camplese *Biochemistry*

Tristan B. Cano Biochemistry

Roy Stoflet Jr. *Chemistry*

Jordan Jane Wynn *Biochemistry*

Cheng Xu *Biochemistry*

COMPUTER SCIENCE DEPARTMENT

Merzia Naee Adamjee Computer Science

Justin William Aquilante Computer Science

Sami Baral
Computer Science

John Stanley Bernard Computer Science

Nikita B. Boguslavskii Computer Science

William Scott Campbell Computer Science

Noah Preston Capucilli-Shatan

Computer Science

Edward Kazuya Carlson Computer Science

John Christopher Carroll

Computer Science
Michael J. Clements
Computer Science
Samantha L. Crepeau
Computer Science

Joseph Cybul Computer Science

Nicholas Andrew Delli Carpini

Computer Science

Xuhui Fan
Computer Science

Janette Lee Fong

Computer Science

Kevin Richard Fortier

Computer Science

Thomas Graham Cyber Security

Alketa Guxha Computer Science Elie Menachen Hess Computer Science

Noble M. F. Kalish Computer Science

Aaron Dante Krueger Computer Science

Aritra Kundu Computer Science

Junying Li Computer Science

Zilin Li

Computer Science

Pichayut Liamthong Computer Science

Baoxin Liu Computer Science

Shary Johana Llanos Antonio

Computer Science

Timothy James Loughlin Computer Science

James Lee MacDonald Jr.

Computer Science

Robear K. Mankaryous Computer Science

Katherine Grace Martin
Computer Science

Laurie A. Mazza Computer Science

Brian Christopher McKay

Computer Science

Connor Joseph Mclaughlin

Computer Science
Manas Mehta
Computer Science

Felipe Alberto Mejias Loria

Computer Science

Veronica Rose. Melican Computer Science

Cameron Miles Mitchell Computer Science Isabel Morales Sirgo

Computer Science

Noah Vrooman Olson

Computer Science

Pooja A. Patel Computer Science

Carly Rose-Marie Pereira

Cyber Security

Jean-Philippe Anthony Pierre

Computer Science

Jean-Luc Delerne Pierre-Louis Jr.

Computer Science James Willia Plante Computer Science

Anand Ramakrishnan Computer Science

Tyler Helmut Reiser Computer Science Daniel Ribaudo Computer Science

Raysa M. Rivera-Bergollo

Computer Science
Renee St Louis
Computer Science
Vlad Gabriel Stelea

Computer Science
Shannon Truong
Computer Science

Freddy E. Veloz Baez Computer Science

Roger Davis Wirkala Computer Science

Samantha LaurenWoodland

Computer Science

Yunyao Wu Computer Science William Bo Yang Computer Science

Ilir Zela

Computer Science

DATA SCIENCE PROGRAM

Jorge Antonio Aguirre Gaitan

Data Science

Marwan Abdullah H. Alsaedi

Data Science

Akshaj Balasubramanian

Data Science

Palawat Busaranuvong

Data Science
Kathleen Cachel
Data Science

Daniel Sergei Cher Data Science

Imogen Cleaver-Stigu

Data Science

Karthikeyan Deiveegarajan

Data Science

Adam Joseph DiChiara

Data Science

Vincent J. Filardi Data Science Matthew J. Finn Data Science

Jose Raul Gamez Carias

Data Science

Mohammad Ghanbari

Data Science

Miranda Hernandez-Reisch

Data Science
Brendan D. Jacques
Data Science

Rahul Jakhmola Data Science

Robert George Johnson

Data Science

Madyson Paige Jia Kelly

Data Science
Xiuhan Li
Data Science
Yueqin Liang
Data Science
Yufei Lin

Si Liu *Data Science* Jianjun Luo *Data Science*

Data Science

Leah McNally Mitchell

Data Science
Farah Mohsin
Data Science

Prathyush Sumana Parvatharaju

Data Science

Siddhi Pramod Patil *Data Science*

Philip Alexander Rago

Data Science

Aishwarya Ramakrishnan

Data Science

Sitanshu Nitin Rupani

Data Science

Mircalin Samedy Data Science

Ronak Sankaranarayanan

Data Science

Ashley Marie Schuliger

Data Science

Laura C. Staugler
Data Science
Scott Wing Tang
Data Science
Merve K. Turgut
Data Science

Jingfeng Xia
Data Science
Shijing Yang
Data Science
Jinhong Yu
Data Science

Yu Zhai
Data Science
Xiaofeng Zhang
Data Science
Wentao Zhao

Data Science

INTERACTIVE MEDIA & GAME DEVELOPMENT PROGRAM

Qihuan Aixinjueluo

Media and Game Development

Josiah Daniel Boucher

Media and Game Development

Hongyuan Shano Liang

Media and Game Development

Andrew C.E. Nichols-Melton *Media and Game Development*

Chinmay Pai

Media and Game Development

Miquel Sans Cornet

Media and Game Development

Abdah A. St. Fleur

Media and Game Development

LEARNING SCIENCES & TECHNOLOGY PROGRAM

Vy Vo Hoang Ngo

Learning Sciences and Technology

Luisa M. Perez Lacera

Learning Sciences and Technology

MATHEMATICAL SCIENCES DEPARTMENT

Kayleigh Campbell Industrial Mathematics

Ryan Essig Candy Applied Statistics

David Anthony Cavallaro Jr.

Applied Statistics
Timothy George Day
Industrial Mathematics

Sara Egan

Master of Mathematics for Educators

Charles H. Eppinger Jr.

Master of Mathematics for Educators

Ashley Elizabeth Fagan

Master of Mathematics for Educators

Sean William Fraser Applied Mathematics

Kimberly Elisabeth Hilton *Mathematics for Educators*

Zhangying Huang Applied Statistics

Zhengdao Jiao *Applied Statistics*

Nikolaos Kalampalikis Applied Mathematics

Kathleen Harkey Kenney

Master of Mathematics for Educators

Jacob James Pardue Applied Statistics Kerrie Alinda Pratt

Master of Mathematics for Educators

Enbo Tian

Applied Statistics

Diyu Yang

Applied Statistics

Bauyrzhan Yerzhigit Applied Mathematics

Victoria A. Zamarra

Master of Mathematics for Educators

NEUROSCIENCE PROGRAM

Kathryn E. Nippert *Neuroscience*

Benjamin William Roop

Neuroscience

PHYSICS DEPARTMENT

Richard Cohen

Physics for Educators

Edward Jarvis *Physics*

Eric Lopes *Physics*

Kevin Edward Stern

Physics

Megan Elise Varney

Physics

THE BUSINESS SCHOOL

Ellen Abayo Management

MushtaqAhmed

 $Master\ of\ Business\ Administration$

Nicholas John Aleles

Operations Analytics and Management

Eli E. Alvarez

Master of Business Administration

Kenneth B. Amaral

Master of Business Administration

Emma Elizabeth Bailey

Management

Priyanka Balasaheb Bangar

Business Analytics

Shreya Bhattacharjee

Operations Analytics and Management

Sharada Bhavana

Master of Business Administration

Madeline Jo Blake *Management*

Caitlin Nicole Boermeester

Management

Camille Bouchard-Chhoeuk

Management

MacKenzie Elizabeth Brandes
Master of Business Administration

Eva Bruklich Management Anna Grace Catlett

Management

Zehua Chen

Business Analytics

Isabelle Chi *Management*

Ruchita Yatin Choksey

Management

Michael G. Clark

Master of Business Administration

Isabelle Claude Management

Makayla J. DAmore Management Anne Florence Davis

Operations Analytics and Management

Berkan Delareyna

Operations Analytics and Management

Justin Stephen Deveau

Master of Business Administration

Ethan Louis DiRenzo Information Technology

Andrew D. Doucette

Master of Business Administration

Kahleb Elijah Downing

Management

Meaghan R. Downing

Management

Christopher Granaudo Dunn Master of Business Administration

Kimberly Elizabeth Elloian *Marketing and Innovation*

Timothy John Ellsworth

Master of Business Administration

Pavel Eroshenko

Operations Analytics and Management

Kayla Ann Fabry

Operations Analytics and Management

Jiahui Fan

Business Analytics

Gregory William Farrell

Master of Business Administration

Santiago Fernandez Moreno Master of Business Administration

Meredith Mary Forcier

Management

Hannah Rosa Gelman

Management

Tyler Joseph Gibbs

Master of Business Administration

Lindsey Mae Giorgi Management

Casey Robert Godzyk

Master of Business Administration

Lauren Olivia Gonynor

Master of Business Administration

Nicholas Leo Granata-Cappabianca

Master of Business Administration

Matthew Greenough

Master of Business Administration

Oliver David Hasson

Management

Emily Anne Hickey

Master of Business Administration

David Hinckley Jr.

Management

Xavier Alexander Hines-Coombs

Management

Jenna Rose Hirshfeld

Management

Jie Hu

Business Analytics

Tianze Huang

Information Technology

Michael A. Ilic *Management*

Zoe Januszewski

Management
Jonathan Jironvil

Management

Ian W. Jolin

Master of Business Administration

Srinivas Reddy Julakanti

Master of Business Administration

Akshata Anil Karekar Information Technology

Alana Noreen Keating

Management

Aaron Edward Kelley

Master of Business Administration

Ahmad Hassan Khan

Operations Analytics and Management

Denisa Kim *Management*

Venkata Prashant Kompella

Business Analytics

Georgia Koulikas Management

Charles Martin Koutsogiane Jr.

Master of Business Administration

Devon Z. Kovaci

Master of Business Administration

Kelsey Ann Lamoureux

Master of Business Administration

Dennis John Leary Management

Natasha Wendy Levey

Management

Rusi Li

Marketing and Innovation

Andrew H. Lubin

Master of Business Administration

Raffi Ohannes Mangoyan

Master of Business Administration

Courtney Dyan Murphy

Master of Business Administration

Edi Naco

Master of Business Administration

Jake Alexander Needleman

Operations Analytics and Management

Brianna Marie Newton

Master of Business Administration

Celeste Lillian Nicoletti

Operations Analytics and Management

Adenike O. Obayemi
Supply Chain Management

Heath Patrick Oikle

Master of Business Administration

Mairéad Elizabeth O'Neill

Management

Anthony Michael Orfitelli

Master of Business Administration

Sofia A. Orrico Management

Michael Osei

Innovation with User Experience

Kyle M. Pacheco *Management*

Brooklynn Lee Paris

Management

Evan Steven Paskalis

Master of Business Administration

Celina Alejandra Perino

. Management

Mark Polonskiy

Innovation with User Experience

David Polson Management Kevin A. Ramos Management

Harold F. Reader III

Master of Business Administration

Timothy A. Roberts

Master of Business Administration

Evan P. Robertson

Operations Analytics and Management

Tyler Jason Roth

Master of Business Administration

Pamela S. Roy

Information Technology

Sebastian Royo Management Gentian Rrudho

Master of Business Administration

Matthew Charles Sanford

Management

Michelle Dorothy Marie Santacreu Innovation with User Experience

Theona Kalikolehua Pao Scola Master of Business Administration

Kayla Anne Carroll Shippee Master of Business Administration

Matthew Devlin Shriner

Management

Nadia Govita Singh Management Abdah A. St. Fleur

Innovation with User Experience

Lingqing Su

Operations Analytics and Management

Kathryn Ann Tarantino

Management

Nikita Dilip Vadhani

Operations and Supply Chain Analytics

Daniel Warren Walker Business Analytics

Chenguang Wang Business Analytics
Amanda Wetmore

Management

Michael James Wheaton

Master of Business Administration

Julia Halannah White

Master of Business Administration

Kade Erik Woolverton

Management

Ziming Ye

Marketing and Innovation

Hongzhen Yu

Supply Chain Management

Jonathan Jerome Zwirko

Master of Business Administration

SCHOOL OF ENGINEERING

AEROSPACE ENGINEERING DEPARTMENT

Sophie Riviera Balkind Aerospace Engineering

Leila Grace Card Aerospace Engineering

Thierry Lyle Champion de Crespigny *Aerospace Engineering*

Olivia Anne Chiasson Aerospace Engineering Abigail Lynn Collins Aerospace Engineering

William Cooley
Aerospace Engineering
Terrance Lee Cooper Jr.
Aerospace Engineering
Rebecca Claire Debski

Aerospace Engineering

Matthew T. Greenlaw *Aerospace Engineering*

Jessica Elisabeth Holland Aerospace Engineering Alyssa Nicole Hollander

Aerospace Engineering

Kiernan Christopher Joyce Aerospace Engineering

Matthew Dean Karns Aerospace Engineering

Veronika D. Karshina Aerospace Engineering Alexander D. Klenk

Aerospace Engineering

Meenakshi Kodali Aerospace Engineering

Caroline Ann Kuhnle Aerospace Engineering Chin Ngai Mike Lam Aerospace Engineering

Elijah Benjamin Levi Aerospace Engineering

Ian Anthony Mayer Aerospace Engineering

John A. McCarthy Aerospace Engineering

Sydney Elizabeth Messey Aerospace Engineering Samuel Elliot Pitkowsky Aerospace Engineering Allison Leigh Robatzek

Aerospace Engineering

Nathaniel Gregory Rutkowski

Aerospace Engineering Nicholas T. Sackos Aerospace Engineering Kamyar Sajjadi Aerospace Engineering

Theresa Anne Sandbrook *Aerospace Engineering*

Eric Scholz

Aerospace Engineering

Christian Maximilian Schrader Aerospace Engineering

Aaron Matthew Smith Aerospace Engineering

Jack G. Tulloch
Aerospace Engineering

BIOMEDICAL ENGINEERING DEPARTMENT

Ramona Bianca Bago Biomedical Engineering

Fabian Eduardo Bonilla Sabillon Biomedical Engineering

Julianna K. Cognetta *Biomedical Engineering*

Colin William Coutts Biomedical Engineering

Logan Walter Gaudette Biomedical Engineering

Lyra Huynh Biomedical Engineering

Enxhi Jaupi

Biomedical Engineering

Jordan D. Jones

Biomedical Engineering

Hanson Seunghyun Lee Biomedical Engineering

Zhijie McClintick Biomedical Engineering

Karina Mirochnik Biomedical Engineering

Paige Elise O'Gorman Biomedical Engineering

Jordan Lee Rosenfeld Biomedical Engineering

Alyssa J. Soares Sousa *Biomedical Engineering*

Talia L. Vaughn Biomedical Engineering Bryce Luke Wade Biomedical Engineering

CHEMICAL ENGINEERING DEPARTMENT

Katherine Elizabeth Amrein *Chemical Engineering*

Ryan C. Bowe

Chemical Engineering

Marissa Patrice Breeden *Chemical Engineering*

Connor Buek

Chemical Engineering

Antonia T. Dinicu *Chemical Engineering*

Nicholas Whitney Fleury Chemical Engineering

Jacob Edward Goodwin *Chemical Engineering*

Devin A. Hainsworth *Chemical Engineering*

Eric Thomas Himebaugh *Chemical Engineering*

Katy Elizabeth Jessop Chemical Engineering

Max G. Moran

Chemical Engineering

Shelby Page Morrison *Chemical Engineering*

Matthew Peter Rando *Chemical Engineering*

Madison Rose Reed Chemical Engineering

Muntasir Shahabuddin *Chemical Engineering*

Trey C. Sheridan Chemical Engineering

Philip Smolitsky Chemical Engineering

Sylvia Ann Thomas *Chemical Engineering*

Yi Jie Wu

Chemical Engineering

CIVIL ENGINEERING DEPARTMENT

Abigail Lyn Brakenwagen Environmental Engineering

Brielle C. Cash

Environmental Engineering

Evelyn Marie Choudhary Environmental Engineering

Shannon Dasilva

Environmental Engineering

Kelsey Donnel Ouellette Environmental Engineering

Bryan Joseph Sadowski Environmental Engineering

Bruno Barros Scherrer Civil Engineering

Lora Schilling

Environmental Engineering

Sebastian Kyle Stypulkowski Environmental Engineering

Joseph Peter Tzanetos Civil Engineering

Jacquelyn Taylor Valsamis Environmental Engineering

Colleen Grace Wyatt Environmental Engineering

ELECTRICAL & COMPUTER ENGINEERING DEPARTMENT

Gabriela Alatorre Systems Engineering

Mawuli Stephen Karl Allorbi Electrical and Computer Engineering

Samuel James Almeida

Systems Engineering Leadership

Sideris Angelou

Electrical and Computer Engineering

Alexandra Auteri Systems Engineering

Man Michael Au-Yeung Systems Engineering

Blaine L. Baker

Power Systems Engineering

Steven Baker
Systems Engineering

Nachiket Uday Bapat

Electrical and Computer Engineering

Joseph Scott Bartenstein

Power Systems Engineering

Franco Agustin Baudino

Electrical and Computer Engineering

Ronita Bose

Power Systems Engineering

Vienna Luna Bowen

Power Systems Engineering

Thomas Boynton

Systems Engineering

Peter Matthew Campellone

Electrical and Computer Engineering

Aatreya Chakravarti

Electrical and Computer Engineering

Shiyu Cheng

Electrical and Computer Engineering

Zachary Stone Clapper

Electrical and Computer Engineering

Lauren Elizabeth Xiaowen Conroy

Systems Engineering

William Anthony Crafa

Electrical and Computer Engineering

Rachel Elizabeth Danz

Power Systems Engineering

Matthew P. DiPlacido

Electrical and Computer Engineering

Kafoumba Doumbia

Power Systems Engineering

Michaela K. Dowling

Systems Engineering

Dun Dun

Electrical and Computer Engineering

Edward Pancratius Dunn IV

Electrical and Computer Engineering

Christian J. Emerson

Electrical and Computer Engineering

Ramazan Kaan Eren

Electrical and Computer Engineering

Matthew Samir Farah

Electrical and Computer Engineering

Jared C. Farley

Power Systems Engineering

Stephanie Ferrandino

Power Systems Management

Maya Elizabeth Flores

Electrical and Computer Engineering

Andrew Francis Flynn

Power Systems Engineering

Benjamin Alexander Franco Power Systems Engineering

Benjamin Grace

Power Systems Engineering

Hector Duglas Granados

Power Systems Engineering

Jonathan Charles Griffin

Systems Engineering

Caitlin Gusk

Power Systems Engineering

Bowen Han

Electrical and Computer Engineering

Austin Joshua Hartshorn

Electrical and Computer Engineering

Jolene W. Hills

Systems Engineering

Linda Thi Hoang

Systems Engineering

Redon Hoxha

Electrical and Computer Engineering

Kevin J. Huang

Electrical and Computer Engineering

Imam Hasan Imran

Electrical and Computer Engineering

Saad Islam

Electrical and Computer Engineering

Phanuphanh Jimmy Kingphilavanh

Systems Engineering

Ravi S. Kirschner

Electrical and Computer Engineering

Jamison R. LaRoche

Power Systems Engineering

Benjamin Eugene Leary

Electrical and Computer Engineering

Zheng Liang

Electrical and Computer Engineering

Brandt James Lomen

Electrical and Computer Engineering

Brandon Lopes

Power Systems Engineering

Evan A. Magno

Electrical and Computer Engineering

Brian Frederick Majerowicz

Power Systems Engineering

Daniel J. Mantoni

Electrical and Computer Engineering

Dario Martinovic

Electrical and Computer Engineering

Michael Steven Massar

Systems Engineering

Roger Matos

Power Systems Engineering

William Daniel McGugan

Power Systems Engineering

Matthew Granville Miller

Electrical and Computer Engineering

Albert V. Nguyen

Electrical and Computer Engineering

David Ludwig Oles

Electrical and Computer Engineering

Nicholas Paul Olgado

Electrical and Computer Engineering

Dominic Palermo

Systems Engineering

Rahul Ramesh Parwani

Systems Engineering

Jacqueline D. Pedo

Systems Engineering

Josiah Tyler Perrin

Electrical and Computer Engineering

Thomas Mitchell Pyle Jr.

Systems Engineering

LeeAnn Bernice Loretta Raczkowski

Systems Engineering

Serena Marie Raso

Electrical and Computer Engineering

Christopher E. Schram

Power Systems Engineering

Mirco Sciulli

Electrical and Computer Engineering

James Matthew Scott

Power Systems Engineering

Oleksandr Semenov

Electrical and Computer Engineering

Ameen Shakir

Power Systems Management

Matthew James Simpson *Systems Engineering*

Richa Singh

Electrical and Computer Engineering

Tony Lee Smith Systems Engineering

Basak Soylu

Systems Engineering

Neal Francis Staco

Power Systems Engineering

Alexander E. Sullivan Power Systems Engineering

Thomas Paul Sullivan

Electrical and Computer Engineering

Annika Isaac Swaim Systems Engineering

Kimberly Karen Sward *Systems Engineering*

Myo Min Thein

Electrical and Computer Engineering

Alexander C. Thurley

Electrical and Computer Engineering

Muttalip Caner Tol

Electrical and Computer Engineering

Jeffrey Tolbert

Electrical and Computer Engineering

Holden Ashby Turner *Systems Engineering*

Kristen Ann Veyna Systems Engineering

Steven R. Wall
Systems Engineering

Julie Ann WalshPower Systems Engineering

Xinguang Wang

Electrical and Computer Engineering

Rachel Lindsay Wardwell Systems Engineering

Daniel Wasson

Electrical and Computer Engineering

Richard Matthew Wilbur Power Systems Engineering

Eric Richard Wittenmeier

Systems Engineering

Derek S. Wung Systems Engineering

Adam Robert Zak
Systems Engineering

Haoqi Zhang

Electrical and Computer Engineering

Xinyuan Simon Zhang

Electrical and Computer Engineering

Xiaomeng Zhou-Carr Systems Engineering

FIRE PROTECTION ENGINEERING DEPARTMENT

Gabriel Paul Bitzer Fire Protection Engineering

William Frank Calcagno IV Fire Protection Engineering

Victoria A. Cunningham *Fire Protection Engineering*

Christopher Lee Cyr Fire Protection Engineering

Jeffrey Marquez Gonzales Fire Protection Engineering

Adam M. Gribb

Fire Protection Engineering

Cameron Joseph Labbree *Fire Protection Engineering*

Hung-En Li

Fire Protection Engineering

Sara Marie Lyons

Fire Protection Engineering

Maiya Joycelynn Mitchell Fire Protection Engineering

Christopher David Nelson *Fire Protection Engineering*

Matthew Tyler Odom *Fire Protection Engineering*

Nicholas Joseph Ostrowski Fire Protection Engineering

Dylan Parrow

Fire Protection Engineering

Benjamin Thomas Seeto Fire Protection Engineering

Mary Elizabeth Sheehan Fire Protection Engineering

Jake Connor Smith

Fire Protection Engineering

Matthew Kenneth Stroebel Fire Protection Engineering

Juan Jesus Vargas

Fire Protection Engineering

Kyle Patrick Wood

Fire Protection Engineering

Jae Wook Yu

Fire Protection Engineering

Jonathan Zimak

Fire Protection Engineering

MECHANICAL ENGINEERING DEPARTMENT

Walid Alomari

Mechanical Engineering

Joseph Alejandro Alvarado Mechanical Engineering

Winston Chadwick Averill

Materials Science and Engineering

Justin Barnes

Mechanical Engineering

Skylar Barthelmes

Mechanical Engineering

Lorenzo Bilbao

Mechanical Engineering

Nolan John Birtwell

Mechanical Engineering

Andrew C. Black

Mechanical Engineering

Sydney Nicole Borrello *Mechanical Engineering*

Shadd A. Bradshaw *Mechanical Engineering*

Meghan J. Brady

Mechanical Engineering

Grete Belle Bressner

Mechanical Engineering

Federico Jose Caba

Mechanical Engineering

Owen Michael Carlstrom Mechanical Engineering Kyle Glendon Carmichael Mechanical Engineering

Yen-Chen Chen
Mechanical Engineering
Derek Michael Chhiv
Mechanical Engineering

Christopher Gardner Clark Materials Process Engineering

Kweku Sam Colecraft Materials Science and Engineering

Michael Nathan Cross Mechanical Engineering

Michael James Cuddy

Materials Science and Engineering

Justine Alana Davids

Materials Science and Engineering

Igor Castilho De Moraes Mechanical Engineering

Ella Jessica Deane Mechanical Engineering

Sarah Jean DeMaio Mechanical Engineering

Alyssa V. Denno

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Edward Doonan *Mechanical Engineering*

Louis Patrick Duh Mechanical Engineering

Charles Robert Dursin Mechanical Engineering

Calvin Matthew Earp
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Daniel Felix

Materials Process Engineering

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Michael Gobran

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Matthew John Goddard

Manufacturing Engineering

Dominick Joseph Gravante Mechanical Engineering

Mattea Elizabeth Gravina

Materials Science and Engineering

Andrew Thomas Gray Mechanical Engineering Austin Joshua Higgins Mechanical Engineering

Colin Hiscox

Mechanical Engineering

Jaryd Ian Hobbs

Mechanical Engineering
Nicholas Richard Houghton
Mechanical Engineering

Tyler Robert Hunt Mechanical Engineering Anh Quang Huynh

Mechanical Engineering
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Nicholas Karatzas

Manufacturing Engineering

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Manufacturing Engineering Michael William Keable Jr.

Mechanical Engineering Malick D. Kelly III Mechanical Engineering

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Mateusz Klimkiewicz *Mechanical Engineering* Douglas Clayton Koethe

Mechanical Engineering Agafiya Konnova Mechanical Engineering

Timothy James Lanoue *Mechanical Engineering*

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Alexandria L. Lehman
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Mechanical Engineering Xinxiao Li

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Yingbing Lu

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Helena Ann Petroff Mechanical Engineering

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Steven A. Pickering
Manufacturing Engineering

Brian Christopher Preiss Mechanical Engineering

Katherine Louise Ralph *Mechanical Engineering*

Brianna Juslyne Raphino Mechanical Engineering

Colin Joseph Reynolds *Mechanical Engineering*

Anxhelo Ripa

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Gabriela De Jesus Rovi Ortega Manufacturing Engineering

Kwesi Asare Sakyi Mechanical Engineering Kellsey Lynne Schaffer

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Noah Thomas Shoer Mechanical Engineering Meghan Alyssa Slaney Mechanical Engineering

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Oliver Minh Thomas

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Kyle Drew Trube Mechanical Engineering

Kara P. Upton

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Kassidy Paige Utheim Mechanical Engineering Diego Gustavo Vaca Revelo Mechanical Engineering

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Calvin Zhang

Mechanical Engineering

Howard Z. Zheng *Mechanical Engineering*

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James Akl

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Robotics Engineering
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Robotics Engineering

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Ryan Carnemolla Robotics Engineering Chintan Mukesh Desai Robotics Engineering

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Robotics Engineering

John Dong

Robotics Engineering

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Peter C. Guglielmino
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Dhruv Kool Rajamani Robotics Engineering

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Robotics Engineering

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Robotics Engineering

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Sabhari Natarajan Robotics Engineering Nghia Trong Nguyen Robotics Engineering

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Robotics Engineering

Avnish Sachar

Robotics Engineering

Marlon Omar Scott Robotics Engineering

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Abedin Sherifi

Robotics Engineering

Trevor William Sherrard Robotics Engineering

Justin R. Smith Robotics Engineering

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Yang Wang

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Brian K. Wells

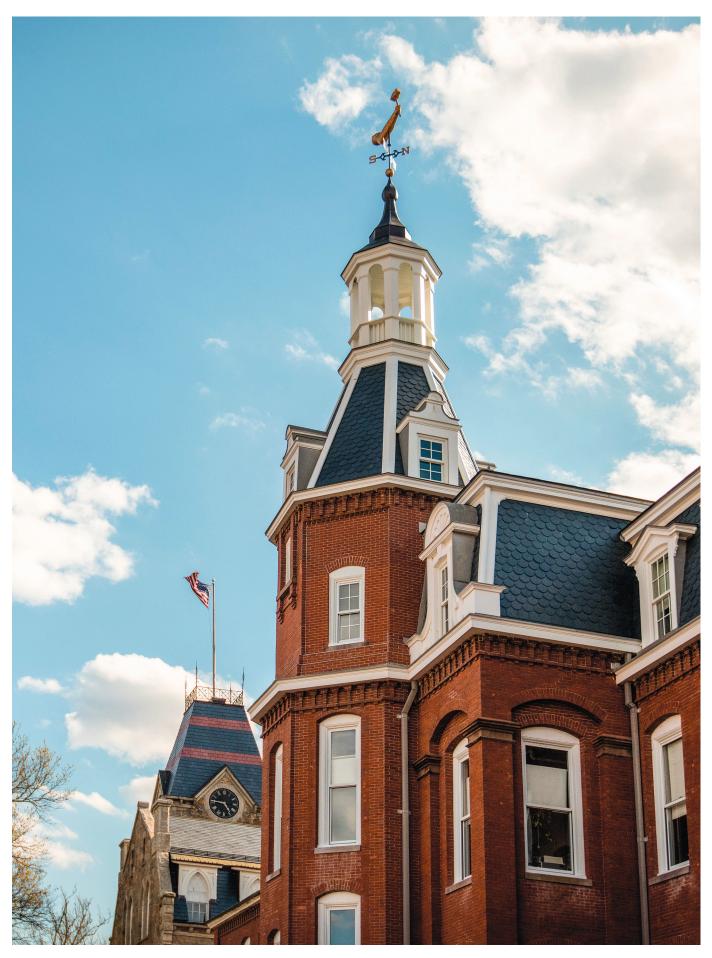
Robotics Engineering

Ryley Ian Wheelock Robotics Engineering

Hao Yang

Robotics Engineering







BACHELOR'S DEGREES

SCHOOL OF ARTS AND SCIENCES

BIOINFORMATICS & COMPUTATIONAL BIOLOGY PROGRAM

Emily Ottilia Baker Bioinformatics and Computational Biology and International and Global Studies

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Maia Grant Bioinformatics and Computational Biology

Jordan Flores Hollands Bioinformatics and Computational Biology

Samantha Alyssa Mora Bioinformatics and Computational Biology

Justin Krittaponrattana Moy Bioinformatics and Computational Biology

Aidan L Pecorale Bioinformatics and Computational Biology and Computer Science

Parker Jahmil Simpson Bioinformatics and Computational Biology

Mir Sultan Bioinformatics and Computational Biology

Julia Rose Tatone Bioinformatics and Computational Biology

Nicholas Tourtillott Bioinformatics and Computational Biology

Stokley Christian Voltmer Bioinformatics and Computational Biology

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Biology and Biotechnology

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Sarah Rose Brown Biology and Biotechnology

Erin Jane Bryan Biology and Biotechnology

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Emily Frances Cecilia DeBeradinis *Biology and Biotechnology*

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Van Le

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Kailana Wang

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Praise Eteng

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Shundong Li Computer Science Bryan Pereira Lima Computer Science

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Interactive Media and Game

Development
Sadie Lombardi
Computer Science
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Computer Science
Stephen Robert Lucas

Computer Science
Winnie S. Ly

Computer Science Yang Lyu

Computer Science
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Computer Science

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Computer Science

Matthew P. Malone

Computer Science

Robear K. Mankaryous Computer Science

David Lloyd Martindale Computer Science Sarah McCarthy

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Computer Science

Rose Alice McGovern Interdisciplinary in

Human-Computer Interaction

Joshua Davis McKeen Computer Science

Connor Joseph Mclaughlin

Computer Science

Veronica Rose Melican Computer Science Kyle John Mikolajczyk Computer Science

Justin P. Mitchell Computer Science Electrical and Computer

Engineering

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Computer Science
Matthew Steven Olson
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Noah Vrooman Olson
Computer Science

Mairéad Elizabeth O'Neill

Computer Science

Gwyneth Carney Ormes Computer Science Mathematical Sciences

Amy Fernanda Orozco Flores

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Michael Osei
Computer Science

Baian Ou

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Hezekiah Kinda Owuor *Computer Science*

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Trevor Mercer Paley
Computer Science
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Madeline Martin Perry

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Hoang Phan Pham Computer Science Data Science

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Computer Science
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Computer Science
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Jonathan L Rosenbaum Computer Science

Michael Frederick Paul Rossetti

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Computer Science
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Mathematical Sciences

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Ashley Marie. Schuliger Computer Science

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Alexander Fisher Simoneau

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Lindberg Kipling Simpson

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Kate Alexandra Sincaglia

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Data Science
Avery Smith
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Adrianna Staszewska
Computer Science
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Ryan J. Stebe

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Daniel Stusalitus
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Oliver Maxwell Thode Computer Science Robotics Engineering Jarius Elijah Thomas Computer Science

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Robotics Engineering

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Computer Science

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Electrical and Computer Engineering

Michael D. Wenning Computer Science Ryan Duane Wheeler Computer Science Andrew J. Whitney

Computer Science

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Adraesteia Wong Computer Science Humanities and Arts

Nicholas J. Wood Computer Science

Matthew Gruber Worzala

Computer Science
William Bo Yang
Computer Science

Wenjing Ying Computer Science

Ziqian Zeng Computer Science

Ke Zhao

Computer Science
Zaiyang Zhong
Computer Science

DATA SCIENCE PROGRAM

Ardavasd Ardhaldjian

Data Science

Jacob R Bissonette

Data Science

Kyle A. Costello Data Science

Olajumoke Elizabeth Jackson

Data Science

Kaustubh Vivek Pandit

Data Science

Brian Robert Phillips

Data Science

Philip Alexander Rago

Data Science

Bailey R Schmidt Data Science

River Yan Data Science

Xizhao Zhang *Data Science*

HUMANITIES & ARTS DEPARTMENT

Noah Charles Brennick Professional Writing

Cameron MacLeod Fiddes Professional Writing

Mason Kaye Humanities and Arts

INTERACTIVE MEDIA & GAME DEVELOPMENT PROGRAM

Owen Z. Aguirre Interactive Media and Game Development

Charles Glendon Baldwin Interactive Media and Game Development

Hannah M. Belan Interactive Media and Game Development

Duncan D. Bertetti Interactive Media and

Game Development-Technology

Stanley Robert Grayson Cliché Interactive Media and

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Terry Deng Interactive Media and Game Development

Mariko Yan Endo Interactive Media and

Game Development-Technology

Daniel Joseph Enriquez Interactive Media and Game Development

Nicolas R. Fish Interactive Media and Game Development-Technology James Peter Flynn III Interactive Media and

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Hannah Louise Goodsell Interactive Media and Game Development

Caroline Irene Grella Interactive Media and Game Development

Anne Datlan Higgins Interactive Media and Game Development

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Computer Science

Janelle Knight Interactive Media and Game Development

Sophia Marcus Interactive Media and Game Development

Hannah I. Miller Interactive Media and Game Development

Oliver H. J. Rayner Interactive Media and Game Development

Katrina Marie Rifenburgh Interactive Media and Game Development

Aidan L. Sensiba Interactive Media and Game Development

ZheCheng Song Interactive Media and Game Development-Technology Computer Science Tyler Sprowl

Interactive Media and Game Development-Technology

Joy Tartaglia

Interactive Media and

Game Development-Technology

Dylan A. Valev Interactive Media and Game Development

William A. White Interactive Media and Game Development-Technology

Jingyu Xie Interactive Media and Game Development-Technology Computer Science

MATHEMATICAL SCIENCES DEPARTMENT

Kwabena A. Adwetewa-Badu *Mathematical Sciences*

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Actuarial Mathematics

Em M. Beeler Mathematical Sciences

Jane Cohen

Actuarial Mathematics

Kayla Ann Fabry Mathematical Sciences

Lexi Ferrini

Actuarial Mathematics

Anna K. Fitzpatrick

Mathematical Sciences

Sarah Jayne Fleck Mathematical Sciences

Molly J. Folino

Mathematical Sciences

Alison Rose Lambert Actuarial Mathematics

Agathe Emily Lasnier *Mathematical Sciences*

Kieran Lee

Actuarial Mathematics

Matthew Ari Levine
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Claire Elise Lungwitz

Mathematical Sciences

Zhifei Ma

Mathematical Sciences Computer Science

Grace Malabanti Mathematical Sciences

Victoria Lynn Mirecki Mathematical Sciences Computer Science

Larson Ost

Mathematical Sciences

Emma Susanne Pollock Mathematical Sciences

Angela M. Quackenbos *Actuarial Mathematics*

Georgina I. Koppelman Quin Mathematical Sciences

Donovan Paul Robillard Actuarial Mathematics

Ally Marie Salvino Mathematical Sciences

Juliette Spitaels Mathematical Sciences

Laura C. Staugler
Mathematical Sciences

Thomas Strow

Mathematical Sciences
Daniil Volkov

Mathematical Sciences

Physics

Ethan Francis Washock Mathematical Sciences

Physics

Wenrui Zheng

Actuarial Mathematics

Yuanchen Zhou Mathematical Sciences

PHYSICS DEPARTMENT

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Physics

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Maranda Murphy Allen

Physics

Ana Gabriela Cano

Physics

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Jacob Joseph Casey

Physics

Nicole M. Garay

Physics

Nickolas John Gardner

Physics
Yifan Gu
Physics

Ryan James Hanna

Physics

Allison Paige Hershoff

Physics

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Mingsi Hu
Applied Physics

Mechanical Engineering

Caroline Olivia Jaeger

Physics

Environmental and Sustainability Studies

Bhanuj Jain *Physics*

Mathematical Sciences

Brady B. Jeong

Physics

Brock William Jolicoeur

Physics

Morgan Nicole Kaler

Physics

Michael Scott Laemmle Jr.

Applied Physics
Brigitte Lefebvre

Physics
Eric Lopes
Physics

Benjamin R. Lunden

Physics -

Javery Axel Mann

Physics

Kaitlin Elizabeth Mary Ann Mason

Physics

Kaitlyn Taylor Morrison

Physics

Amelia Nishimura

Physics

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Physics

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Alexander Henry Puhalski

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Mechanical Engineering

Corinne Elizabeth Rywalt

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Samuel Peregrine Skinner

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Holden Snyder
Physics

Brian Daniel Zawacki

Physics

Yonglong Zhan

Physics

SOCIAL SCIENCE & POLICY STUDIES DEPARTMENT

Rafaello Adler-Abramo Society, Technology and Policy

Rosalyn Ophelia Bates *Economic Science*

Isabela Joselene Chachapoyas Ortiz Environmental and Sustainability

Studies

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Society, Technology and Policy

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Hailey Jordan Hurrell
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Dalila I. Jarvis
Psychological Science

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Elizabeth Koptsev *Psychological Science*

Lilly-beth Dee Linnell *Psychological Science*

Anish Nakahara Psychological Science

Paul Alexandre Pacheco Jr. *Psychological Science*

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THE BUSINESS SCHOOL

SOCIAL SCIENCE & POLICY STUDIES DEPARTMENT

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Tyreese J. James

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Zoe Januszewski Industrial Engineering Vignesh Vasudevarao Kadarabad

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Lauren Rose Wach Robotics Engineering

Yonatan E. Weiner *Robotics Engineering*

Kate Rose Wheeler Robotics Engineering Mechanical Engineering

Ryley Ian Wheelock Robotics Engineering

Sawyer Quinn Wofford Robotics Engineering

Jiyang Jeffrey Wu 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

Zachary Goldblatt, *Biomedical Engineering* "Mechanical Regulation of Cell Death"

Advisor: Kristen Billiar

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

Meenakshi Kodali, *Aerospace Engineering*"A methodology to determine crystal/binder interface adhesion in polymer-bonded explosives"

Advisor: Nikhil Karanjgaokar

Zahra Noori, Mechanical Engineering "Experimental Study of Drying of Paper with Ultrasound Mechanism" Advisor: Jamal Yagoobi

BUSINESS AND SOCIAL SCIENCE

Vy Ngo, *Learning Sciences & Technologies*"The Effects of Superfluous Brackets on Solution Processes and Performance during Math Problem-Solving" Advisor: Erin Ottmar

CHEMICAL ENGINEERING AND MATERIAL SCIENCES

Fatou Diop, *Chemical Engineering*"Continuous Liquid-Liquid Extraction of Salicylic Acid with Integrated Membrane Separation"

Advisor: Andrew Teixeira

DATA SCIENCE, CYBERSECURITY, AND COMPUTER SCIENCE

Walter Gerych, *Data Science*"Recurrent Bayesian Classifier Chains for Multi-Label Classification"
Advisor: Elke Rundensteiner

Shruti Mahajan, Computer Science

"BlankieChat: For co-located Parent-Child quality time in an augmented reality world with soft knitted sensors" Advisor: Erin Solovey

DATA SCIENCE

Isha Chidrawar, Matthew Finn, Farah Mohsin, Saniya Syeda, *Data Science* "Harlan Lab Pancreatic Islet Database Design and Data Mining"

LIFE SCIENCES AND BIOENGINEERING

Shang Gao, Robotics Engineering
"In-Vivo Demonstration of Photoacoustic
Necrotic Region Mapping for Radiofrequency
Cardiac Ablation Guidance"
Advisor: Haichong Zhang

MATHEMATICAL, CHEMICAL, AND PHYSICAL SCIENCES

Elisa Negrini, *Applied Mathematics*"A Neural Network Ensemble Approach to System Identification"
Advisor: Luca Capogna

ROBOTICS, CYBERPHYSICAL SYSTEMS, ELECTRICAL & COMPUTER ENGINEERING

Yichuan Tang, Robotics Engineering "Mirror-Integrated Ultrasound Image-Guided Percutaneous Needle Intervention" Advisor: Haichong Zhang

THREE MINUTE THESIS COMPETITION WINNER

Jihan El Ouaragli, Civil Engineering
"Smart Battery for Thermal Energy Storage and
Thermal Comfort: Storing heat until needed with
just moist air around you!"
Advisor: Steven Van Dessel

UNDERGRADUATE HONORS & AWARDS

SALISBURY PRIZE

Sydney Borrello, Mechanical Engineering

Kirsten Bowers, Aerospace Engineering

Sean Burns, Chemistry

Camila Cavalcanti B. M. Carvalho, Biomedical Engineering

Gabriela Chong, Chemical Engineering

Maria Decelles, Biomedical Engineering

Anna Eng, Mechanical Engineering

Maya Flores, Electrical & Computer Engineering

Braden Foley, Humanities & Arts / Mechanical Engineering

Meenakshi Kodali, Aerospace Engineering

Kaamil Lokhandwala, Interactive Media & Game Development / Computer Science

Darius Luo, Architectural Engineering

Rachel Maurice, Professional Writing / Chemistry & Biochemistry

Natalie Mohn, Management / Information Systems

Alyssa Moore, Robotics Engineering

Callan Moriarty, Business

Justin Moy, Bioinformatics & Computational Biology

Rose Noggle, Civil Engineering

Patrick O'Mullan, Physics / Computer Science

Adrian Orzsulak, Bioinformatics & Computational Biology / Biology & Biotechnology

Trevor Paley, Computer Science

Brandon Persons, Robotics Engineering

Madison Rutherford, Environmental Engineering

Adrianna Staszewska, Data Science / Computer Science

Laura Staugler, Mathematical Sciences

Adraesteia Wong, Humanities / Computer Science

This award is made to the most meritorious seniors at the university. It was established by Stephen Salisbury II, a WPI founder and the first president of the Board of Trustees.

TWO TOWERS PRIZE

Stephen Price, Computer Science

(In keeping with the original purposes of the founders of WPI, the Two Towers Prize is awarded to students who, through general academic competence, campus leadership, regular course work, and special work in research and projects, best exemplify a combined proficiency in the theoretical and practical union that is at the heart of the WPI educational tradition. This prize was established by Mildred M. Tymeson Petrie, author of TWO Towers, WPI's centennial history, published in 1965.

WILMER L. AND MARGARET M. KRANICH PRIZE

Caitlin Kuzma, Industrial Engineering

This award was established in 1994 by Margaret Kranich to honor WPI students majoring in engineering or science who best exemplify excellence in the humanities and arts and the full integration of these disciplines into their undergraduate experience. Wilmer Kranich, her husband, was dean of graduate studies at WPI. Margaret Kranich taught a variety of courses at WPI over the years and, as an artist, painted portraits of four WPI presidents and of Robert H. Goddard, Class of 1908.

CLASS OF 1879 PRIZE FOR OUTSTANDING PROJECTS IN THE HUMANITIES

Paul A. Pacheco Jr. and **Vanessa Van DeMark**, "Addressing the Gender Gap in STEM Education with Classroom Interventions"

Advisor: Kristin Boudreau

All WPI undergraduates must complete the Humanities and Arts Requirement, which introduces them to the breadth, diversity, and creativity of the human experience. Through a self-selected sequence of courses, each student explores the humanities and arts broadly and dives more deeply into one theme. The exploration concludes with an Inquiry Seminar or Practicum. This award is given to students for excellent work that demonstrate exceptional creativity and skill in conceiving, developing, and expressing their chosen theme.

UNDERGRADUATE HONORS AND AWARDS

PROVOST MQP AWARD

ACTUARIAL MATHEMATICS

Lexi Ferrini, Allison Lambert, Donovan Robilard:

"Copula Modeling: "An Application to Workers' Compensation Claims" Advisors: Jon Abraham, Barry Posterro

AEROSPACE ENGINEERING

Tyler Lizotte and Harrison Smith:

"Design of a 6U Cubesat for an Ionospheric Mission" Advisor: Nikolaos A. Gatsonis

ARCHITECTURAL ENGINEERING

Darius Luo, Erin Venard, and Hannah Whitney:

"WPI Campus Center Feasibility Study for LEED O+M Certification"
Advisors: Leonard Albano, Soroush Farzin,

and Shichao Liu.

BIOCHEMISTRY

Silvana Reid:

"Assessment of Nucleotide Labeling to Determine Organization of DNA Replication"

Advisor: Destin Heilman

BIOLOGY & BIOTECHNOLOGY

Kylie Belanger:

"Metaphase Chromosome Alignment is Sensitive to Dynein-Dependent Forces at the Cell Cortex" Advisor: Amity Manning

BIOINFORMATICS & COMPUTATIONAL BIOLOGY

Justin Mov:

"Predicting Becker and Duchenne Muscular Dystrophy Progression through the Neuromuscular Observational Datahub"

Advisor: Liz Ryder

BIOMEDICAL ENGINEERING

Hannah Borges, Alexis Nichols, Shreya Puttagunta, Meghan Slaney, Chris Son:

"Feeding Device for Premature Infants in Low Middle-Income Countries" Advisors: Solomon Mensah, Dirk Albrecht

CHEMICAL ENGINEERING

Patrick Roche, Ciara Young:

"Promoting Batch to Continuous Processing for Pharmaceutical Manufacturing and Education" Advisor: Andrew Teixeira

CHEMISTRY

Michael Berwanger:

"Photoredox Catalyzed C-H Acetoxylation Through Formal Hydride Abstraction" Advisors: Stephen Kmiotek, Patricia Musacchio,

CIVIL ENGINEERING

Stephanie Bishop, Peyton Graham, Isabelle Mellor:

"Cross-Laminated Timber and Structural Resilience" Advisor: Leonard D. Albano

COMPUTER SCIENCE

William Cross, Adrian Curless, Alexander Simoneau:

"Ultrafork and Focused KSM: Tools for Memory Optimization in Duplicate Containers"

Advisor: Craig Shue

DATA SCIENCE

Collin Broderick, Adrianna Staszewska:

"Defect Detection Automation for Metal Additive Manufacturing with Deep Learning" Advisors: Diana Lados, Rodica Neamtu

ECONOMICS

Cole Peterson:

"A Behavioral Economic Analysis of Cryptocurrency Markets" Advisor: Alexander Smith

UNDERGRADUATE HONORS AND AWARDS

ELECTRICAL & COMPUTER ENGINEERING

Maya Flores, Colin Stevens, Devon Poisson:

"5G User Equipment Selective Jammer" Advisors: Alexander Wyglinski

ENVIRONMENTAL ENGINEERING

Benjamin Beliveau, Lillian Taylor, and Delaney Tedtsen: "Lead and Copper Corrosion in Drinking Water Systems

Advisor: Jeanine Dudle

HUMANITIES & ARTS

Adraesteia Wong:

"Never Set in Stone: The Creative Process in Transformative Fiction"

Advisor: Kate McIntyre

INDUSTRIAL ENGINEERING

Clarissa Casilla Luzardo, Hannah Gelman, Alejandro Gerov Armas, Abigail Perlee:

"WPI Dining Services Delivery Plan"

Advisor: Sara Saberi

INTERACTIVE MEDIA & GAME DEVELOPMENT

Charles Baldwin, Jasmine Duerk, Kaamil Lokhandwala, Dylan Valev:

"Moonsighted"

Advisors: Farley Chery, Gillian Smith

MANAGEMENT INFORMATION SYSTEMS

Christopher Guerrette, Natalie Mohn:

"Development of a Cloud-Based Enterprise Resource Planning System for Gompei's Goat Cheese"

Advisors: Jim Ryan

MATHEMATICAL SCIENCES

Ben Gobler:

"The Calkin-Wilf Tree; Extensions and Applications" Advisors: Brigitte Servatius, Herman Servatius

MECHANICAL ENGINEERING

Anna Catlett, Dominick Gravante, Casey Willis:

"Repurposing PLA into 3D Printing Filament"

Advisor: John Sullivan

PHYSICS

Brock Jolicoeur:

"Development of a Microcollimator Array for Neutron Imaging" Advisor: David Medich

PROFESSIONAL WRITING

Elaine Chen:

"A Tsuboniwa: A Garden Dream" Advisors: Yunus Telliel, Jennifer deWinter

PSYCHOLOGICAL SCIENCES

Lilly-Beth Linnell:

"Neuroanatomical Biomarkers for Suicidality in Dissociative Identity" Advisors: Ben Nephew, Jeanine Skorinko

ROBOTICS ENGINEERING

Benjamin Draper, Sawyer Wofford:

"Stair Capable Robotic Vacuum" Advisors: Siavash Farzan, Jing Xiao

