The New Jersey Institute of Technology that we know today has a rich history with its beginnings developing from the industrial age. Like many of the port cities around the world, the Newark of the late 19th century was a thriving industrial center. Its factories churned out thread, metals, paints and leather goods. In Newark, Thomas Edison set the stage at his Ward Street factory for his later achievements, and Edison rival Edward Weston established the first factory in the United States for commercial production of dynamo electric machines.

On March 24, 1880, the Essex County assemblyman in the state legislature introduced “An Act to Provide for the Establishment of Schools of Industrial Education.” The Newark Board of Trade sponsored the bill. The act established three schools of industrial education: one in Newark, one in Trenton and one in Hoboken. The first Board of Trustees met July 1, 1884. The Newark Technical School opened Monday, February 9, 1885, with 88 students who attended despite a terrible snowstorm. The first class, mostly evening students, attended classes in a rented building at 21 West Park Street. Soon the facility became inadequate to house an expanding student body. To meet the needs of the growing school, a second fundraiser — the institution’s first capital campaign — was launched to support the construction of a dedicated building for Newark Technical School. In 1886, under the leadership of the school’s dynamic first director, Dr. Charles A. Colton, the cornerstone was laid at the intersection of High Street and Summit Place for the three-story building later to be named Weston Hall in honor of the institution’s early benefactor. A laboratory building, later to be called Colton Hall, was added to the campus in 1913. Daniel Hodgdon served as the director of Newark Technical School from 1918 to 1920.

Under Dr. Allan R. Cullimore, who led the institution from 1920 to 1949, the modest Newark Technical School was transformed into the Newark College of Engineering (NCE). Campbell Hall was erected in 1925. During the lean years of the Depression and World War II, only the former Newark Orphan Asylum, now Eberhardt Hall, was purchased and renovated by the college.

The postwar period was one of enormous activity during which President Cullimore — like today’s post-Cold War university presidents — challenged the college to turn “wartime thinking into peacetime thinking.” In 1946, about 75% of the freshman class had served in the armed forces. Robert W. Van Houten was acting president of NJIT from 1947 until 1950 when the board of trustees named him president. Cullimore Hall was built in 1958 and two years later the old Weston Hall was razed and replaced with the current seven-story structure. Doctoral-level programs were introduced and six years later, in 1966, an 18-acre, four-building expansion was completed. William Hazell succeeded Dr. Van Houten as president of NJIT in 1970.

In 1973, with the addition of the New Jersey School of Architecture, the institution had evolved into a technological university, emphasizing a broad range of graduate and undergraduate degrees and dedication to significant research and public service. A stronger-than-ever Newark College of
Engineering remained intact, but a new university name — New Jersey Institute of Technology — signified the institution’s expanded mission.

A broadened mission called for the creation of a residential campus. The opening of NJIT’s first dormitory, Redwood Hall, in 1979 began a period of steady growth that continues today.

Under the leadership of Saul K. Fenster, who served as president of NJIT from 1978 to 2002, four new schools were established at the university: the College of Science and Liberal Arts in 1982; the School of Management in 1988; Albert Dorman Honors College in 1995; and the College of Computing Sciences in 2001. During the administration of Robert A. Altenkirch, New Jersey School of Architecture was reconstituted as the College of Architecture and Design in 2008.

Under the leadership of Joel S. Bloom, NJIT completed the first phase of the Gateway Project in 2013, including the creation of Warren Street Village, a three-acre, mixed-use residential housing complex that added 600 beds to NJIT’s existing inventory of residential housing.

The complex includes the Honors College Residence Hall and five duplex homes for NJIT’s Greek organizations, as well as dining services, a convenience store and fitness center for the university community.

On April 13, 2017, more than 200 students, alumni, faculty, staff and friends of the university witnessed the official ribbon cutting of the renovated Central King Building, part of a campus transformation designed to enhance the student experience and solidify NJIT’s position going forward as one of the nation’s leading public polytechnic universities. On November 10, 2017, NJIT cut the ribbon for the 220,000-square-foot Wellness and Events Center.

On December 11, 2017, NJIT officially opened its Makerspace, a large, well-equipped space for collaborative design and testing, featuring state-of-the-art machinery, including additive manufacturing equipment; CNC machines; a water jet; machinery for laser cutting, grinding and milling; and a large assortment of tools, devices, and metrology and precision measurement appliances. The 23,000-square-foot space is used for classes, design projects, team efforts and preparation for national competitions in the area of vehicle and drone design.

On November 9, 2018, NJIT launched its newest school, the School of Applied Engineering and Technology (SAET), within the university’s Newark College of Engineering. SAET encompasses NCE’s engineering technology programs in two divisions (Electrical and Mechanical Engineering Technology Division and the Built Environment Division); the baccalaureate degree General Engineering program; and a division focused on Engineering Education practice and research. SAET serves about 1,000 NJIT students.

On December 5, 2019, NJIT had a ribbon-cutting ceremony for its Microfabrication Innovation Center (MIC). The MIC houses advanced equipment and a cleanroom environment that provides a state-of-the-art facility for the fabrication of micro- and nanoelectronic and microfluidic devices and sensors. These devices and sensors will transform technology across a range of areas and will accelerate work on smart devices. In the area of health care, for example, biomarker sensors may be developed that can communicate with medical information systems to support point-of-care diagnostics and therapeutic intervention.

Along with the York Center for Environmental Research and the Life Sciences and Engineering Research Center, the MIC is an integral part of NJIT’s strategic effort to produce translational research on microchip and microfluidic devices with applications not only in health care, but in environmental technologies and advanced manufacturing.
COMMENCEMENT CEREMONY 2021

May Eighteenth
Two Thousand and Twenty-One
5:00 P.M.
Wellness and Events Center
NJIT Campus, Newark, New Jersey

Conferral of
Baccalaureate, Master’s and Doctoral Degrees

Granted by the following colleges

Newark College of Engineering
J. Robert and Barbara A. Hillier College of Architecture and Design
College of Science and Liberal Arts
Martin Tuchman School of Management
Ying Wu College of Computing
WELCOME

Welcome to the 2021 commencement ceremonies of New Jersey Institute of Technology. The university extends heartfelt congratulations to its graduates on their accomplishment and commends the families and friends who have helped them reach this milestone of academic achievement.

By definition, commencement means “to begin to be.” As the members of the Class of 2021 begin to be, we wish them every success, confident that they have been well prepared for a life of contribution in the 21st century, to meet its challenges and embrace its myriad opportunities.

Well done!

TO OUR GUESTS

Commencement, an age-old tradition, is a joyous yet solemn event signifying years of study and sacrifice.

To preserve the appropriateness of this august occasion —

The ceremony is not complete until the honored guests recess. As a show of respect, guests are asked to remain standing at their seats until the recessional has ended.

Guests are asked to remain in their assigned seats during the ceremony in order to maintain social distancing. You cannot leave your seat at any time to take a photo.

Any attendee requiring assistance should contact NJIT personnel.

Members of the audience are asked to turn off cellphones and other electronic devices.

The university will be recording the day’s events.

To view photos online, visit: commencement.njit.edu.

Your cooperation is greatly appreciated.

Guest Wi-Fi access is available in the NJIT Wellness and Events Center.

Please connect to the following network: COMMENCEMENTguest

When prompted for a password, please enter: highlanders (lower case)

Information in this program is compiled prior to final certification of candidates for graduation. Only the diploma and certified transcript of each student are official documents which attest to the granting of a degree.
UNIVERSITY CEREMONY

Prelude Video

Class Crier
Victoria Nguyen ’21
Senior Class President

Processional

Processional Gonfalon Carriers
President’s Medal for Academic Excellence Recipients
Bagpipers
Honored Guests
University Officials
Presidential Party
Fadi P. Deek ’85, ’86, ’97, Provost and Senior Executive Vice President
Mace Bearer: Basil Baltzis,
Senior Vice Provost for Academic Affairs and Student Services
Joel. S Bloom, President

Presiding

Fadi P. Deek ’85, ’86, ’97, Provost and Senior Executive Vice President

Presentation of Colors

AFROTC Detachment 490
Color Guard

The National Anthem

Hillary D.T Gillings
Administrative Assistant
Office of Institutional Effectiveness

Greetings

Joel S. Bloom, President

Student Speaker

Anuj Patel ’21
Student Senate President
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<td>Rev. Edwin D. Leahy, O.S.B. Headmaster, St. Benedict’s Preparatory School</td>
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<td>Lawrence A. Raia ’65 Partner, Raia Properties NJIT Board of Trustees (2012-2021)</td>
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<td>Kimberly Bryant Founder and CEO, Black Girls CODE</td>
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<td>Commencement Address</td>
<td>Kimberly Bryant Founder and CEO, Black Girls CODE</td>
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<td>Conferring of Degrees</td>
<td>Robert C. Cohen ’83, ’84, ’87 Chair, NJIT Board of Trustees</td>
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<td>Alumni Speaker</td>
<td>Ralph Jimenez ’02 President, NJIT Alumni Association</td>
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<td>Alma Mater</td>
<td>Kristie Damell Executive Director, Office of Student Life</td>
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<tr>
<td>Presentation of Candidates</td>
<td>Doctoral, Master’s and Baccalaureate Degrees</td>
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By its charter, New Jersey Institute of Technology is empowered to confer honorary degrees upon individuals of distinguished achievement in recognition of their personal and professional accomplishments and their contributions to society.
THE DEGREE OF DOCTOR OF HUMANE LETTERS, HONORIS CAUSA
Presented to
REV. EDWIN D. LEAHY, O.S.B.
HEADMASTER
ST. BENEDICT’S PREPARATORY SCHOOL

Rev. Edwin D. Leahy, O.S.B., became the 23rd headmaster of St. Benedict’s Prep in 1972. He graduated from St. Benedict’s in 1963 and holds a bachelor’s in philosophy and a master’s in divinity with distinction. A monk of the Benedictine Abbey of Newark since 1966, he was ordained as a priest in 1972. Fr. Edwin began teaching biology and religion at St. Benedict’s Prep in 1967. Following the decision by the then-larger community of monks to suspend the operation of St. Benedict’s in 1972, Fr. Edwin, then 26, was chosen by the remaining stalwart group of monks, interested parents, alumni and friends to lead the reopening of the school. Under his direction, the school opened its doors again in 1973 with 89 students and 14 faculty members, including 13 monks who recommitted themselves to the school’s mission of serving young men from largely low-income families in Newark.

Fr. Edwin’s focus on leading his brother monks in their renewed service to Newark gradually drew more students from inner-city Newark and beyond and won over skeptical alumni to join new friends, including major New Jersey foundations, in supporting the school. By 1980, the school was serving over 200 students. St. Benedict’s was back and determined to continue serving the students and families of Newark for another century.

In 2020, Fr. Edwin responded to the call of young women seeking to continue their education in the Benedictine tradition when their schools closed. He welcomed their efforts to establish a Girls Prep Division at St. Benedict’s with the admission of 86 girls.

Today, St. Benedict’s operates a co-ed K-6 Elementary Division, a co-ed grades 7-8 Middle Division, a grades 9-12 Boys Prep Division and a grades 9-12 Girls Prep Division. It serves more than 900 students, most from African heritage and Hispanic backgrounds. Nearly 6,000 alumni have gone on to become not only leaders in their respective careers, but good fathers, husbands and citizens. Nearly 100% of the school’s recent graduates go on to college.

Fr. Edwin is a Gustav Heningburg Civic Fellow with the Institute on Ethnicity, Culture and the Modern Experience at Rutgers University-Newark, and received the first Robert F. Kennedy Award for Urban School Leadership from the national Schools That Can organization in 2014. He has been featured on 60 Minutes, and the school was the subject of the 2014 documentary The Rule, What Inner City Schools Need to Finally Succeed. Fr. Edwin currently serves as president of the Board of the Essex County Schools of Technology.
THE DEGREE OF DOCTOR OF SCIENCE, HONORIS CAUSA
Presented to
LAWRENCE A. RAIA ’65
PARTNER, RAIA PROPERTIES
NJIT BOARD OF TRUSTEES (2012-2021)

Lawrence A. Raia ’65 has served with great distinction on the NJIT Board of Trustees for nearly a decade. Since his initial appointment in 2012, Raia has provided outstanding leadership and prudent council to numerous Board of Trustee committees, including Buildings and Grounds, Campus Life (as chair), Investments, and Audit and Finance (as chair). In 2016, he became a member of the Executive Committee and most recently served in the role of co-vice chair. Raia is also a member of NJIT’s Newark College of Engineering Board of Visitors, for which he served as chairman.

In addition to his unwavering support as a volunteer, Raia has been among the university’s most generous benefactors, establishing the Lawrence and Elaine Raia Family Scholarship Endowment to benefit NJIT’s talented and hardworking civil engineering students, and creating the Lawrence and Elaine Raia Innovation Lab, which is housed within Newark College of Engineering. In recognition of his tireless advocacy on behalf of NJIT, Raia was awarded the NCE Outstanding Alumnus Award in 2000, and received the President’s Medal for Lifetime Achievement at Celebration 2011.

An accomplished businessman, Raia spent the early years of his career at Raia Industries, a family business founded by his father in 1930, that ultimately became New Jersey’s largest ready-mix concrete producer. At its height, Raia Industries employed more than 500 people and supplied concrete, aggregates and asphalt from 10 plants throughout northern New Jersey and lower New York State.

The company was sold in 1987, and Raia and his brothers established Raia Properties Corporation, developing and managing commercial real estate and self-storage buildings. The company has now transitioned to investing and managing multifamily apartment complexes throughout the United States.

Raia received his undergraduate degree in civil engineering from NJIT’s Newark College of Engineering in 1965, and earned an MBA from Fairleigh Dickinson University in 1979. He is a licensed professional engineer in New Jersey and a member of Tau Beta Pi.

Raia has been married to his wife, Elaine, for 56 years. They have three children — Dr. Jacqueline Raia-St. Germaine, Lawrence C. Raia and Jennifer Marino — and nine grandchildren: Jacques, Christian, Aidan and Celine St. Germaine; Sophia and Lawrence D. Raia; and Isabella, Mark and Michael Marino.
THE DEGREE OF DOCTOR OF SCIENCE, HONORIS CAUSA

Presented to

KIMBERLY BRYANT
FOUNDER AND CEO
BLACK GIRLS CODE

Kimberly Bryant is the founder and CEO of Black Girls CODE, a nonprofit organization dedicated to “changing the face of technology” by introducing girls of color (ages 7-17) to the fields of technology and computer science with a concentration on entrepreneurial concepts.

Prior to starting Black Girls CODE, Bryant enjoyed a successful 20+ years professional career in the pharmaceutical and biotech industries as an engineering manager in a series of technical leadership roles for various Fortune 50 companies, such as Genentech, Merck and Pfizer. Since 2011, Bryant has helped Black Girls CODE grow from a local grassroots initiative serving only the Bay Area to an international organization with 14 chapters across the U.S. and in Johannesburg, South Africa. Black Girls CODE has currently reached over 10,000 students and continues to grow and thrive.

Bryant has been nationally recognized as a thought leader for her work to increase opportunities for women and girls in the technology industry, and has received numerous awards for her work with Black Girls CODE. She has been awarded the prestigious Jefferson Award for Community Service for her work to support communities in the Bay Area, named by Business Insider on its list of “The 25 Most Influential African-Americans in Technology,” and named to The Root 100 and the Ebony Power 100 lists in 2013. Bryant has been named one of Fast Company’s Most Creative People as well. She also was named by the White House as a Champion of Change for her work in tech inclusion and for her focus on bridging the digital divide for girls of color, and received an Ingenuity Award in Social Progress from the Smithsonian Institute. She has been identified as a thought leader in the area of tech inclusion and has spoken on the topic at conferences nationally and internationally, such as the Personal Democracy Forum, TEDx Kansas City, Platform Summit, Big Ideas Festival, South By Southwest (SXSW) and many others.
THE HASHIMOTO PRIZE
Presented to
JINGJING YAO ’20
and
HAITAO YUAN ’20

Over a distinguished lifetime, Kazuo Hashimoto garnered more than 1,000 patents and applications related to his invention of the telephone answering machine and other technical devices in electronics and telecommunications. One hundred of these were awarded in the United States alone. He was a recipient of Japan’s Medal of Honor, the Yellow Ribbon, and was one of the select individuals in his country esteemed as a Living National Treasure.

New Jersey Institute of Technology, in recognition of his extraordinary body of creative work and his encouragement of invention, awarded him the degree of Doctor of Science, honoris causa, at these ceremonies in 1994.

In May of 1995, the Hashimoto Endowment was established at NJIT through the generosity and vision of Dr. Hashimoto who found this university to provide an environment in which applied research and scholarship flourish.

A key element of the endowment’s purpose is the annual award of the Hashimoto Prize to a doctoral candidate in electrical or computer engineering who has demonstrated high achievement and promise in the field.

New Jersey Institute of Technology is proud to announce the recipients of the Hashimoto Prize are Jingjing Yao and Haitao Yuan, outstanding scholars who have earned the degree of Doctor of Philosophy through distinguished scholarship and research in electrical and computer engineering.
CANDIDATES FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY

APPLIED PHYSICS

(Degree conferred jointly by NJIT and Rutgers-Newark, Newark, New Jersey)

Sherry Chhabra
BS Physics, Fergusson College, University of Pune, Pune, India
MS Physics, Fergusson College, University of Pune, Pune, India
Dissertation:
Radio Diagnostics of Particles and Plasma in the Solar Corona
Advisors:
Dale E. Gary, PhD
James A. Klimchuk, PhD

† Nengyi Huang
BS Physics, Jilin University, Jilin, Changchun, People’s Republic of China
MS Applied Physics, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Flare Emission Observed in High Resolution and Comparison with Numerical Modeling
Advisors:
Haimin Wang, PhD
Yan Xu, PhD

† Sizhan Liu
BS Materials Science and Engineering, Tongji University, Shanghai,
People’s Republic of China
MS Materials Science and Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Exploration of Novel Ferroelectric Systems: Determination of the Underlying Mechanisms
Advisor:
Trevor A. Tyson, PhD

Andrey M. Stejko
BA Applied Physics, Ithaca College, Ithaca, New York
Dissertation:
Global MHD and Acoustic Solar Modeling and Helioseismic Analysis
Advisor:
Alexander G. Kosovichev, PhD

* Jiasheng Wang
BS Earth and Space Sciences, University of Science and Technology of China, Hefei,
People’s Republic of China
Dissertation:
Small-Scale Dynamics of Photospheric Magnetic Activities and Their Chromospheric Responses
Advisors:
Haimin Wang, PhD
Chang Liu, PhD

† — August 2020 graduates
* — December 2020 graduates
BIOLOGY
(Degree conferred jointly by NJIT and Rutgers-Newark, Newark, New Jersey)

Callie Hendricks Crawford
BS Marine Biology, University of Rhode Island, Kingston, Rhode Island
MS Marine Biology, College of Charleston, Charleston, South Carolina
Dissertation:
These Fish Were Made for Walking: Morphology and Walking Kinematics in Balitorid Loaches
Advisor:
Brooke E. Flammang, PhD

Xueyang Fan
BS Biotechnology, Beijing University of Technology, Beijing, People’s Republic of China
MS Biology, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Genetic Population Structure and Microbiome of German Cockroaches in Urban Environments
Advisor:
Daniel E. Bunker, PhD

BIOMEDICAL ENGINEERING
(Degree conferred jointly by NJIT and Rutgers Biomedical and Health Sciences, New Jersey)

Bemin Ghobreal
BS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey
BS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Selective Neural Stimulation by Leveraging Electrophysiological Diversity and Using Alternative Stimulus Waveforms
Advisors:
Mesut Sahin, PhD
Farzan Nadim, PhD

Peter A. Michael
BS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Modulation of Corticospinal Excitability Induced by Paired Associative Stimulation Combined with Movement
Advisor:
Sergei Adamovich, PhD
• Cristian Morales Carrasco
  BS Electrical Engineering, Universidad de Chile, Santiago, Chile
  MS Electrical Engineering, Universidad de Chile, Santiago, Chile
  Dissertation:
  * A Longitudinal Investigation of Functional Activity Changes from Vision Therapy: A Study of Binocularly Normal Controls and Patients with Convergence Insufficiency
  Advisors:
  Tara L. Alvarez, PhD
  Xiaobo Li, PhD

† Jose Juan Rodriguez
  BS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey
  Dissertation:
  * Biomechanical Loading Changes Between Species in Mild Blast-Induced Traumatic Brain Injury
  Advisor:
  Namas Chandra, PhD

Jessica Cardenas Turner
BS Biomedical Engineering Technology, DeVry University, North Brunswick, New Jersey
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
* Plant-Derived Extracellular Matrix Mimetic Scaffolds for Bone Repair Applications
  Advisors:
  Treena L. Arinzeh, PhD
  Eduardo Almeida, PhD

† Daniel E. Younger
BS Biological Engineering, Cornell University, Ithaca, New York
Dissertation:
* Microglia Induced Neuroinflammation Through the Nlrp3 Inflammasome Following Blast Traumatic Brain Injury
  Advisor:
  Namas Chandra, PhD

Min Zhang
BS Bio-Engineering, Nanyang Technological University, Jurong West, Singapore
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
* Using FNIRS as an Objective Measure of Susceptibility to Informational Masking
  Advisor:
  Antje Ihlefeld, PhD
BUSINESS DATA SCIENCE

† Weizhi Chen
BS Marketing, Purdue University Northwest, Calumet, Hammond, Indiana
Dissertation:
Peer-To-Peer Consumption in 3D Printing Design
Advisor:
Haisu Zhang, PhD

† Yasser Mohammed K. Farha
BS Business Administration, Lynn University, Boca Raton, Florida
Dissertation:
Mind Maps and Machine Learning: An Automation Framework for Qualitative Research in Entrepreneurship Education
Advisor:
Cesar Bandera, PhD

* Shuai Zhao
BA Information Management and Information Systems, Xidian University, Xi’an, People’s Republic of China
Dissertation:
Addressing Ad-Blocking Challenges in Online Publishing: A Data Science Approach
Advisors:
Yi Chen, PhD
Cristian Borcea, PhD

CHEMICAL ENGINEERING

* Philip A. Aligwe
BS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Membrane-Based Removal of Ammonia from a Waste Stream and Its Recovery
Advisor:
Kamalesh K. Sirkar, PhD

* Ogochukwu Yvonne Enekwizu
BE Chemical Engineering, Nnamdi Azikiwe University, Awka, Nigeria
MS Chemical Engineering, University of Houston, Houston, Texas
Dissertation:
The Aging and Impacts of Atmospheric Soot: Closing the Gap Between Experiments and Models
Advisor:
Alexei F. Khalizov, PhD
* Shen Ji  
BS Pharmaceutical Engineering, Yunnan University, Kunming, People’s Republic of China  
MS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
* Development of Novel Inks and Approaches for Printing Tissues and Organs  

Advisor:  
Murat Guvendiren, PhD

* Kuriakose T. Kunnath  
BS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
MS Pharmaceutical Engineering, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
* Predicting Bulk-Scale Properties of Pharmaceutical Powders from Dimensionless Particle-Scale Measures  

Advisor:  
Rajesh N. Davé, PhD

† Yufeng Song  
BS Pharmacy, Shandong University, Jinan, People’s Republic of China  
MS Pharmaceutical Engineering, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
† Moisture Permeable Barrier Membranes for Toxic Gases and Vapors  

Advisor:  
Kamalesh K. Sirkar, PhD

* Francis P. Sullivan  
BE Chemical Engineering, Stevens Institute of Technology, Hoboken, New Jersey  
ME Chemical Engineering, Stevens Institute of Technology, Hoboken, New Jersey  
MS Computer Engineering, Stevens Institute of Technology, Hoboken, New Jersey  

Dissertation:  
* Modeling Mass Transfer and Chemical Reaction in Industrial Nitrocellulose Manufacturing Processes  

Advisor:  
Laurent Simon, PhD

Siva Kumar Valluri  
BE Chemical Engineering, Birla Institute of Technology and Science, Pilani, Hyderabad, India  
MS Chemistry, Birla Institute of Technology and Science, Pilani, Hyderabad, India  
MS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey  

Dissertation:  
Fluorine-Based Inorganic Oxidizers for Use in Metal-Based Reactive Materials  

Advisor:  
Edward L. Dreizin, PhD
CHEMISTRY

• Manpreet Kaur
  BPharm, Guru Gobind Singh Indraprastha University, Delhi, India
  MS Pharmaceutical Chemistry, New Jersey Institute of Technology, Newark, New Jersey
  Dissertation:
  Molecular Mechanism of Cyanobacteria Circadian Clock Oscillator and Effect of Co-Factors on Its Oscillation
  Advisor:
  Yong-Ick Kim, PhD

Pyong Hwa Kim
  BS Biochemical and Biophysical Sciences, University of Houston, Houston, Texas
  Dissertation:
  Reconstituting the Cyanobacterial Circadian Clock In Vitro
  Advisor:
  Yong-Ick Kim, PhD

† Sweety Singh
  BS Chemistry, University of Delhi, Delhi, India
  MS Chemistry, University of Delhi, Delhi, India
  Dissertation:
  PEGylated Block Copolymer for Cancer Imaging and Treatment
  Advisor:
  Kevin D. Belfield, PhD

• Pengyi Zhao
  BS Pharmaceutical Science, China Pharmaceutical University, Nanjing, People’s Republic of China
  MS Food Science, Illinois Institute of Technology, Chicago, Illinois
  Dissertation:
  Novel Applications of Mass Spectrometry for Quantitation and Reaction Mechanism Elucidation
  Advisor:
  Hao Chen, PhD
CIVIL ENGINEERING

* Shaini Dilsha Aluthgun Hewage
  BS Civil and Infrastructure Engineering, Asian Institute of Technology, Pathum Thani, Thailand
  MS Geotechnical and Earth Resources Engineering, Asian Institute of Technology, Pathum Thani, Thailand
  Dissertation:
  *The Stability of Nanobubbles and Its Application in Contaminated Sediment Treatment*
  Advisor:
  Jay N. Meegoda, PhD

Stephanie R. Santos
  BS Civil Engineering, New Jersey Institute of Technology, Newark, New Jersey
  Dissertation:
  *Safe Yield Comparisons for the 1960’s and 2000’s Drought in the Passaic River Basin*
  Advisors:
  Taha F. Marhaba, PhD
  Robert Dresnack, PhD

† Hasan Tariq
  BE Civil Engineering, National University of Sciences and Technology, Islamabad, Pakistan
  ME Structural Engineering, Asian Institute of Technology, Bangkok, Thailand
  Dissertation:
  *Modeling Strategies for Structures Using Ductile Concrete Materials in Seismic Applications*
  Advisor:
  Matthew J. Bandelt, PhD
COMPUTER ENGINEERING

† Zhengqi Jiang
BNS Applied Physics, University of Science and Technology of China, Hefei, People’s Republic of China
MNS Physics, University of Science and Technology of China, Hefei, People’s Republic of China
Dissertation:
Toward a Network Controlled Delivery of Energy
Advisor:
Roberto Rojas-Cessa, PhD

Zhangyi Shen
BS Information Security, Hangzhou Dianzi University, Zhejiang, People’s Republic of China
MS Computer Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Deep Learning on Image Forensics and Anti-Forensics
Advisor:
Mengchu Zhou, PhD

Jingjing Yao
BS Information and Communication Engineering, Dalian University of Technology, Dalian, People’s Republic of China
MS Information and Communication Engineering, University of Science and Technology of China, Hefei, People’s Republic of China
Dissertation:
Intelligent and Secure Fog-Aided Internet of Drones
Advisor:
Nirwan Ansari, PhD

† Haitao Yuan
BS Software Engineering, Northeastern University, Shenyang, People’s Republic of China
MS Software Engineering, Northeastern University, Shenyang, People’s Republic of China
PhD Modeling Simulation Theory and Technology, Beihang University, Beijing, People’s Republic of China
Dissertation:
Energy and Performance-Optimized Scheduling of Tasks in Distributed Cloud and Edge Computing Systems
Advisors:
Mengchu Zhou, PhD
Qing Liu, PhD
COMPUTER SCIENCE

Hammad Afzali Nanize
BS Information Technology Engineering, Sharif University of Technology, Tehran, Iran
MS Information Security, Malek Ashtar University of Technology, Tehran, Iran
Dissertation: Towards Improving the Security of the Software Supply Chain
Advisor: Reza Curtmola, PhD

Huiyan Cao
BS Software Engineering, Xidian University, Xi’an, People’s Republic of China
MS Information, Production and Systems Engineering, Waseda University, Tokyo, Japan
Dissertation: Performance Optimization of Big Data Computing Workflows for Batch and Stream Data Processing in Multi-Clouds
Advisor: Chase Qishi Wu, PhD

Mohammadreza Esfandiari
BS Computer Science, Sharif University of Technology, Tehran, Iran
Dissertation: Changing the Focus: Worker-Centric Optimization in Human-In-The-Loop Computations
Advisor: Senjuti Basu Roy, PhD

Abeer Mohammed S. Hakeem
BS Computer Science, King Abdulaziz University, Jeddah, Saudi Arabia
MS Computer Science, King Abdulaziz University, Jeddah, Saudi Arabia
Dissertation: Systems for Free Parking Assignment
Advisor: Cristian Borcea, PhD

Xiurui Hou
BS Internet of Things, Central South University, Changsha, People’s Republic of China
Dissertation: Hybrid Deep Neural Networks for Mining Heterogeneous Data
Advisor: Zhi Wei, PhD
Weiwei Jia  
BS Software Engineering, Xi’an University of Posts and Telecommunications, Shaanxi, People’s Republic of China  
MS Computer Science, Northwestern Polytechnical University, Shaanxi, People’s Republic of China  
Dissertation:  
*Improving Multi-Threaded QoS in Clouds*  
Advisor:  
Xiaoning Ding, PhD

Vipina Kuttichi Keloth  
BS Physics, Kannur University, Kerala, India  
MCA, Mahatma Gandhi University, Kerala, India  
MTech Systems Analysis and Computer Applications, National Institute of Technology, Karnataka, Karnataka, India  
Dissertation:  
*Methods for Extending Biomedical Reference Ontologies and Interface Terminologies for EHR Text Annotation*  
Advisors:  
James Geller, PhD  
Yehoshua Perl, PhD

† Mingda Li  
BS Computer Science, Harbin Institute of Technology, Harbin, People’s Republic of China  
MS Computer Science, University of Science and Technology of China, Hefei, People’s Republic of China  
Dissertation:  
*Analyzing and Assisting Patient Decision-Making in Online Health Communities*  
Advisor:  
Yi Chen, PhD

† Hao Liu  
BE Information and Communication Engineering, Zhejiang University, Hangzhou, People’s Republic of China  
MS Electronics Science and Technology, Zhejiang University, Hangzhou, People’s Republic of China  
Dissertation:  
*Machine Learning for Scientific Data Mining and Solar Eruption Prediction*  
Advisor:  
Jason T.L. Wang, PhD
Hao Liu  
BS Telecommunication Engineering, Nanjing University of Posts and Telecommunications, Nanjing, People’s Republic of China  
BS Electrical and Computer Engineering, New York Institute of Technology, New York, New York  
MS Electrical Engineering, Columbia University, New York, New York  
Dissertation:  
*Enrichment of Ontologies Using Machine Learning and Summarization*  
Advisors:  
Yehoshua Perl, PhD  
James Geller, PhD

Shaobo Liu  
BS Electrical Power Engineering, Agricultural University of Hebei, Baoding, People’s Republic of China  
MS Electrical Engineering, Stevens Institute of Technology, Hoboken, New Jersey  
Dissertation:  
*Development of Deep Learning Neural Network for Ecology Data and Medical Image*  
Advisor:  
Frank Y. Shih, PhD

Xinge Lu  
BS Computer Science, Shanghai University, Shanghai, People’s Republic of China  
MS Computer Science, Stevens Institute of Technology, Hoboken, New Jersey  
Dissertation:  
*Semantic, Integrated Keyword Search Over Structured and Loosely Structured Databases*  
Advisor:  
Dimitrios Theodoratos, PhD

Yuan Lu  
BBA, Tianjin University, Tianjin, People’s Republic of China  
BS Information Science and Technology, Nankai University, Tianjin, People’s Republic of China  
ME Electrical Engineering, Nankai University, Tianjin, People’s Republic of China  
Dissertation:  
*Crowdsourcing Atop Blockchains*  
Advisors:  
Guiling Wang, PhD  
Qiang Tang, PhD
† Gyana Ranyan. Sahu  
B Tech Electrical Engineering, National Institute of Technology, Rourkela, India  
MS Computer Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Towards Practical Homomorphic Encryption and Efficient Implementation  
Advisor:  
Kurt R. Rohloff, PhD

† Jinhe Shi  
BE Electronic Materials Information, Shanghai University, Shanghai,  
People’s Republic of China  
MS Electrical and Computer Engineering, Rutgers University, New Brunswick, New Jersey  
Dissertation:  
Accurate Patient Health Condition Identification and Risk Prediction from Health Data  
Advisor:  
Yi Chen, PhD

* Xin Yin  
BS Mathematics and Applied Mathematics, Zhejiang Gongshang University, Hangzhou,  
Zhejiang, People’s Republic of China  
MS Statistics, University of Connecticut, Storrs, Connecticut  
Dissertation:  
Exposing and Fixing Causes of Inconsistency and Nondeterminism in Clustering Implementations  
Advisor:  
Iulian Neamtiu, PhD

† Cuicui Zheng  
BS Information Security, Northeastern University, Shenyang, People’s Republic of China  
Dissertation:  
Global Optimization Algorithms for Image Registration and Clustering  
Advisor:  
James M. Calvin, PhD
ELECTRICAL ENGINEERING

Ha Quoc Thang Bui
BS Physics, Vietnam National University of Science, Ho Chi Minh City, Vietnam
MS Nanomaterials and Nanodevices, Vietnam National University of Engineering and Technology, Hanoi, Vietnam

Dissertation:
Optical Engineering of III-Nitride Nanowire Light-Emitting Diodes and Applications

Advisor:
Hieu Pham Trung Nguyen, PhD

* Weiqiang Dong
BS Automation, South China University of Technology, Guangzhou, People’s Republic of China
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Coordination, Adaptation, and Complexity in D Indecision Fusion

Advisor:
Moshe Kam, PhD

Sina Fathi-Kazerooni
BS Electrical Engineering, Shiraz University, Shiraz, Iran
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Countering Internet Packet Classifiers to Improve User Online Privacy

Advisor:
Roberto Rojas-Cessa, PhD

† Ammar Latif
BS Electrical Engineering, Technical University of Budapest, Budapest, Hungary
ME Telecommunications, University of Toronto, Toronto, Canada
MBA, Concordia University, Montreal, Canada

Dissertation:
Live Media Production: Multicast Optimization and Visibility for Clos Fabric in Media Data Centers

Advisors:
Durgamadhab Misra, PhD
Abdallah Khreishah, PhD
Mustafa Ozen  
BS Electronic and Communication Engineering, Cankaya University, Ankara, Turkey  
BS Mathematics and Computer Science, Cankaya University, Ankara, Turkey  
MS Mathematics, Georgia Southern University, Statesboro, Georgia  
Dissertation:  
Modeling and Analysis of Intracellular Signaling Networks and Cellular Decisions  
Advisor:  
Ali Abdi, PhD

* Di Wu  
BS Electrical Engineering, Harbin Institute of Technology, Heilongjiang, People’s Republic of China  
MS Electrical Engineering, Harbin Institute of Technology, Heilongjiang, People’s Republic of China  
Dissertation:  
Drone-Assisted Emergency Communications  
Advisor:  
Nirwan Ansari, PhD

† Chen Yi  
BS Ecology, Shandong University, Jinan, Shandong, People’s Republic of China  
ME Signal and Information Processing, Chongqing University of Posts and Telecommunications, Chongqing, People’s Republic of China  
Dissertation:  
Error Correction for Asynchronous Communication and Probabilistic Burst Deletion Channels  
Advisor:  
Joerg Kliewer, PhD

ENVIRONMENTAL ENGINEERING

* Han Hua  
BS Environmental Engineering, Shanghai Ocean University, Shanghai, People’s Republic of China  
MS Environmental Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Characterizing Reactive Iron Mineral Coatings and Their Roles in Natural Attenuation at a Site with Historical Contamination  
Advisor:  
Lisa B. Axe, PhD
ENVIRONMENTAL SCIENCE

* Oindrila Gupta
  BTech Chemical Engineering, West Bengal University of Technology, Kolkata, India
  Dissertation: 
  Development of Novel Membranes for Nanocarbon Enhanced Separation with Application 
  in Biofuels and Solvent Recovery
  Advisor: 
  Somenath Mitra, PhD

† Fei Li
  BS Bioengineering, Tianjin University of Commerce, Tianjin, People’s Republic of China
  MS Fermentation Engineering, Tianjin University of Commerce, Tianjin, 
  People’s Republic of China
  Dissertation: 
  1,4-Dioxane Biodegradation in Propanotrophs: Molecular Foundations and Implications 
  for Environmental Remediation
  Advisor: 
  Mengyan Li, PhD

INDUSTRIAL ENGINEERING

Kevin M. Moriarty
  BS Industrial Engineering, New York Institute of Technology, Old Westbury, New York
  MBA, Dowling College, Oakdale, New York
  Dissertation: 
  Service Quality Assessment and Improvement Methods and Tools
  Advisor: 
  Paul G. Ranky, PhD

† Joseph M. Wright
  BS Economics and Business Management, SUNY-Stony Brook University, Stony Brook, New York
  MBA, St. John’s University, Queens, New York
  MS Industrial Engineering, New Jersey Institute of Technology, Newark, New Jersey
  Dissertation: 
  A Comprehensive and Absolute Corporate Sustainability Assessment and Enhanced Input 
  Output Life Cycle Assessment
  Advisor: 
  Reggie J. Caudill, PhD

* Wen Zhu
  MB Preventive Medicine, Southwest Medical University, Luzhou, Sichuan, 
  People’s Republic of China
  MS Healthcare Systems Management, New Jersey Institute of Technology, Newark, New Jersey
  Dissertation: 
  Online Fulfillment: F-Warehouse Order Consolidation and Bops Store Picking Problems
  Advisor: 
  Sanchoy K. Das, PhD
INFORMATION SYSTEMS

Eric W. Nersesian
BA Economics, Rutgers University, New Brunswick, New Jersey
MS Information Systems, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Impact of Traversal Kinematics on Efficacy of Immersive Virtual Learning Environments
Advisors:
Michael J. Lee, PhD
Margarita Vinnikov, PhD

Ye Xiong
BA English, Beijing Foreign Studies University, Beijing, People's Republic of China
MS Business and Information Systems, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
An Automated Feedback System to Support Student Learning of Conceptual Knowledge in Writing-To-Learn Activities
Advisor:
Yi-Fang Brook Wu, PhD

Yu Xu
LLB Foreign Affairs and Administration, China Foreign Affairs University, Beijing, People's Republic of China
MS Public Policy and Management, Carnegie Mellon University, Pittsburgh, Pennsylvania
Dissertation:
Supporting User Interaction and Social Relationship Formation in a Collaborative Online Shopping Context
Advisor:
Michael J. Lee, PhD

MATERIALS SCIENCE AND ENGINEERING

Samar Azizighannad
BS Textile Technology and Fiber Science Engineering, Amirkabir University of Technology, Tehran, Iran
MS Nanofiber Structures Engineering, Amirkabir University of Technology, Tehran, Iran
Dissertation:
Controlled Reduction of Graphene Oxide and Graphene Oxide-Carbon Nanotube Hybrids and Their Applications
Advisor:
Somenath Mitra, PhD
Aneer Lamichhane  
BS Physics, Tribhuvan University, Kirtipur, Nepal  
BA Mathematics, Tribhuvan University, Kirtipur, Nepal  
MS Physics, Tribhuvan University, Kirtipur, Nepal  
MS Technomathematics, Lappeenranta University of Technology, Lappeenranta, Finland  
MS Physics, Bowling Green State University, Bowling Green, Ohio  
Dissertation:  
First-Principles Density Functional Theory Studies on Perovskite Materials  
Advisor:  
Nuggehalli M. Ravindra, PhD

† Cheng Peng  
BS Materials Science and Engineering, Donghua University, Shanghai, People’s Republic of China  
MS Materials Science and Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Graphene Based Barrier Membrane for Gas Separation Processes  
Advisor:  
Kamalesh K. Sirkar, PhD

Kai Qian  
BE Materials Science and Engineering, Nanjing University of Science and Technology, Nanjing, Jiangsu, People’s Republic of China  
MS Materials Science and Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Investigation of Topological Phonons in Discrete Mechanical Metamaterials  
Advisor:  
Camelia Prodan, PhD

MATHEMATICAL SCIENCES  
(Degree conferred jointly by NJIT and Rutgers-Newark, Newark, New Jersey)  
* Ryan P. Atwater  
BA Mathematics, University of Maryland, Baltimore County, Baltimore, Maryland  
MS Mathematics, Towson University, Towson, Maryland  
Dissertation:  
Studies of Two-Phase Flow with Soluble Surfactant  
Advisors:  
Michael R. Booty, PhD  
Michael S. Siegel, PhD
* Brandon M. Behring  
BS Mathematics, University of San Francisco, San Francisco, California  
MS Mathematics, New York University, New York, New York  
Dissertation:  
*Dances and Escape of the Vortex Quartet*  
Advisor:  
Roy H. Goodman, PhD

† Malik Chabane  
BS Mechanics, Paul Sabatier University, Toulouse, France  
MS Fluid Dynamics, Paul Sabatier University, Toulouse, France  
Dissertation:  
*Resident Triad Interactions in One- and Two-Layer Systems*  
Advisor:  
Wooyoung Choi, PhD

† Yinbo Chen  
BS Biology, Shaanxi Normal University, Xi’an, Shaanxi, People’s Republic of China  
Dissertation:  
*Efficient Approximations for Stationary Single-Channel Calcium Nanodomains*  
Advisor:  
Wooyoung Choi, PhD

Chao Cheng  
BEc International Economics and Trade, Huazhong University of Science and Technology, Wuhan, People’s Republic of China  
MS Applied Mathematics, China University of Petroleum (Beijing), Beijing, People’s Republic of China  
Dissertation:  
*Intermittent Dynamics of Dense Particulate Matter*  
Advisor:  
Lou Kondic, PhD

† Linwan Feng  
BS Mathematics and Applied Mathematics, Northwestern Polytechnical University, Xi’an, Shaanxi, People’s Republic of China  
MS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*Efficient Time-Stepping Approaches for the Dispersive Shallow Water Equations*  
Advisors:  
David G. Shirokoff, PhD  
Wooyoung Choi, PhD
Ziyan Guo  
BS Mathematical Sciences, Jiangnan University, Wuxi, People’s Republic of China  
MS Computer Science, Jiangnan University, Wuxi, People’s Republic of China  
MS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Asymmetric Multivariate Archimedean Copula Models and Semi-Competing Risks Data Analysis  
Advisor:  
Antai Wang, PhD

Emel Khan  
BS Mathematics, University of Peshawar, Peshawar, Indonesia  
MS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Mechanisms of Oscillations and Entrainment in Neuronal and Circadian Models  
Advisors:  
Casey O. Diekman, PhD  
Horacio G. Rotstein, PhD

Jacob Lesniewski  
BA Mathematics, Caldwell University, Caldwell, New Jersey  
MS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Eigenvalue Problems for Fully Nonlinear Elliptic Partial Differential Equations with Transport Boundary Conditions  
Advisor:  
Brittany D. Froese Hamfeldt, PhD

† Guangyuan Liao  
BS Mathematical Sciences, Sichuan University, Chengdu, People’s Republic of China  
MS Applied Mathematics, Sichuan University, Chengdu, People’s Republic of China  
Dissertation:  
Mathematical Models and Tools to Understand Coupled Circadian Oscillations and Limit Cycling Systems  
Advisor:  
Amitabha K. Bose, PhD

* Keyang Zhang  
BS Mathematics, University of Utah, Salt Lake City, Utah  
MS Mathematics, New York University, New York, New York  
Dissertation:  
Convergence of the Boundary Integral Method for Interfacial Stokes Flow  
Advisors:  
Michael S. Siegel, PhD  
David M. Ambrose, PhD
MECHANICAL ENGINEERING

* Nikola S. Bosnjak
  BS Mechanical Engineering, University of Belgrade, Belgrade, Serbia
  MS Mechanical Engineering, University of Belgrade, Belgrade, Serbia
  Dissertation:
  *Experiments and Modeling of the Chemo-Mechanically Coupled Behavior of Polymeric Gels*
  Advisor:
  Shawn A. Chester, PhD

Suchandra Das
  BTech Production Engineering, Haldia Institute of Technology, West Bengal, India
  Dissertation:
  *Electric Field Induced Self-Assembly of Mesoscale Structured Materials and Smart Fluids*
  Advisors:
  Pushpendra Singh, PhD
  Ian S. Fischer, PhD

* Sudeepto Kahali
  BS Mechanical Engineering, Georgia Institute of Technology, Atlanta, Georgia
  MS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey
  Dissertation:
  *Blast Shock-Wave Characterization in Experimental Shock Tubes*
  Advisors:
  Namas Chandra, PhD
  Zhiming Ji, PhD

* Jiawei Li
  BS Mechanical Engineering, Beijing University of Chemical Technology, Beijing, People’s Republic of China
  MS Mechanical Engineering, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia
  MS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey
  Dissertation:
  *Human-Robot Interaction for Assistive Robotics*
  Advisor:
  Lu Lu, PhD
TRANSPORTATION

† Ravi H. Jagirdar
BE Civil Engineering, Gujarat Technological University, Gujarat, India
MS Transportation, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Development and Evaluation of Low-Cost Traffic Data Collection Methods
Advisor:
Joyoung Lee, PhD

* Liu Lv
B.Bus Economics, North College of Beijing University of Chemistry Technology, Beijing, People’s Republic of China
MS Transportation, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
High-Speed Rail Safety Analysis Based on Dual-Weighted Complex Network
Advisor:
Rongfang Liu, PhD

Celina Semaan
BE Civil Engineering, Lebanese American University, Byblos, Lebanon
Dissertation:
Optimizing Work Zone Schedules Considering Traffic Diversion and Emission Cost Using Artificial Bee Colony Algorithm
Advisor:
Steven I-Jy Chien, PhD

• Abdullah Shabarek
BS Civil Engineering, Aleppo University, Aleppo, Syria
MS Engineering Management, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
A Deep Machine Learning Approach for Predicting Freeway Work Zone Delay Using Big Data
Advisor:
Steven I-Jy Chien, PhD
Zehra Betul Atasoy
BArch, Istanbul Technical University, Istanbul, Turkey
MS History of Architecture, Istanbul Technical University, Istanbul, Turkey
Dissertation:
Advisor:
Zeynep Çelik, PhD

Angela R. Garretson
BS, Management, Syracuse University, Syracuse, New York
MPA, Rutgers University, Newark, New Jersey
Dissertation:
The Impact of a College Readiness Faculty Learning Community
Advisor
Bruce Bukiet, PhD
(NJIT advisor; home institution for this degree: Rutgers-Newark)

Chathurthi Subiksha De Silva
BS Town and Country Planning, University of Moratuwa, Moratuwa, Sri Lanka
Dissertation:
Private Sound Environments in Public Space: Use of Headphones in Public Parks and Public Transit
Advisor:
Karen A. Franck, PhD

Mohamed Gamal-Eldin
BA History, Temple University, Philadelphia, Pennsylvania
MA Middle East Studies, The American University in Cairo, Cairo, Egypt
Dissertation:
Cities of Sand: Reshaping the Environment, Building Towns and Finding Modernity in the Isthmus of Suez, 1856-1936
Advisor:
Zeynep Çelik, PhD

Hanife Vardi-Topal
BS Landscape Architecture, Ege University, Izmir, Turkey
MS Landscape Architecture, Rutgers University, New Brunswick, New Jersey
Dissertation:
In Partnership? Pedestrian Plazas in New York City
Advisor:
Karen F. Franck, PhD
# Candidates for Master's Degrees

**Newark College of Engineering**

## Master of Science

### Biomedical Engineering

- Anvitha Anand Rao
- Eric Balfour
- Nicholas Dominick Cambria
- Prateek Chandra
- Shufrah Mubashshira Chowdhury
- Tulika Das
- Sam Doshi
- Akash DontaSametty
- Mohamed A. Eladawi
- Pedro Jose Flores
- Patricia Iglesias Montoro
- Fariba Khajouei
- Aisha Khan
- Alvin Mathew
- Christopher James Morris
- Tracey E. Mraw
- Siddhant Meghraj Bhasarkar
- Womesh Dilip Bhole
- Shabhab Choudhary
- David J. Demianicz
- Purvam Mehulkumar Gandhi
- Victoria H. Harbour
- Azhane Starr Jackson
- Sally E. Khalil
- Yuwen Mao
- Ezequiel J. Orellana
- Vikas Patchamatla
- Siddharth Dhansukh Rudani
- Gerges Shehata
- Alejandros Suarez
- Ketki Keshav Tarodekar
- Siddharth Tripathi
- Carlos Verastegui
- Jiahui Zhao

### Civil Engineering

- Mariam Abudibouh I
- Faisal S. Aldeba
- Haider Ali
- Nkuah O. Asare
- Chintan Bhagavanbhui
- Bagdiya
- Sandro Baltazar
- Andres Barrezueta
- Ayush Batua
- Joseph M. Belmonte
- Vivek Himmatbhai
- Bhadiyadra
- Jerry Bollman
- Sharon Lenz Burke
- Daniel Calabro
- Jonathan A. Cerniglia
- Chung Hang Cheung
- Ian Joseph Chwiedouik
- Ian Ambrose Cooper
- Carlos Cruz-Garcia
- Sagar Janakbhai Dalal
- John Anthony Depergola
- James John Dietze Jr.
- Yancarlos Feliz
- Rebeca C. Galdamez
- Isaac A. Garcia
- Lalith Aditya Goli
- Calvin J. Gould
- Gabrielle Grampone
- Kevin T. Gurski
- Wassiem N. Hanna
- Mohamed Hassan
- Theodore William Heiselman
- Kevin Jamaal Hughes
- Andrew T. Izzo
- Husham Waheed Janjua
- Nabil Jaoudar
- Timo Joy
- Garrett M. Keers-Flood
- Justin N. Khalawan
- Minhaz U. Khan
- Chad Eun Kim
- Timothy E. Kirk
- Kelvin Lau
- Steve J. Laurent
- Joseph P. Letinski
- Kayla P. Lubonski
- Nicole Mariduena Meza
- Curtis Mclaughlin
- Aithra Suresh Kumar Nair
- Bahaa Majed Nasser
- Daniel R. Nisivoccia
- Matthew J. Pagnani
- Devarsh Yagneshkumar Panchal

### Chemical Engineering

- Venkatesan Dayapule Harirao
- Bradley Dumeny
- Amjed Hedhil
- George Lawrence Heim
- Gordon Odira
- Yuvraj D. Patel
- Mayuri Milind Prabhu
- Zahir Quijano
- Siddharth Rahul Wadke
- Jialun Xue

### Computer Engineering

- Venkatesan Dayapule Harirao
- George Lawrence Heim
- Gordon Odira
- Yuvraj D. Patel
- Mayuri Milind Prabhu
- Zahir Quijano
- Siddharth Rahul Wadke
- Jialun Xue

### Critical Infrastructure Systems

- Sara Eladl
- Rachel Rose Haberman

---

† — August 2020 graduates

* — December 2020 graduates
CANDIDATES FOR MASTER'S DEGREES

ELECTRICAL ENGINEERING

Anshmeet Singh Anand
Assirou Assa
* Sreekar Baskaran
Harshal Sharad Bharame
Meghana Anand
Chandawarkar
* Bhuvaneswari Chandrasekaran
Cameron J. Deangelis
Rahul Deepak Disa
* Matthew W. Domeier
Hengyuan Dou
Dennis John Duncan
Abdulrahman Y. Elsabbagh
† Brian Edmund Evans
* Asm Fakhruddin
Justin J. Farischon
* Jennifer Lynn Hildebrand
Tasneem M. Hossain
* Vindya Satish Jois
Benjamin T. Joyce
Akshay Dharmendra Khilare
Sanjay Krishna
* Abdilah M. Latabi
Joseph Lewkowicz
Rajalakshmi M. Madhavan
* Parivitha Mahesh
* Sarezan Mamrook
Tejesh J. Mehta
Patrick D. Miller
Devon Murdza
Jose Najarro
Apoorv Anand Narangalkar
Kruthika Narendra Nayak
† Christopher A. Ohara
Manpreet Singh Parmar
* Vishvabhen Patel
Matthew J. Petruia
Harshith Pitali Nagaraju
Brian Yang Qin
Shravan Rajshekar
Gayathri Ramesh
Ilhna R. Sayago Torres
Mahsa Shakerpasgozar
* Mohamed Singer
Bikramdeep Singh
Vidhushheeda Saiwakumar
Michael Joseph Starace Jr.
Suraj Sureshkumar
Sayeed Anwar Syed Kamal
Ritvik Tiwari
Sharan Velmurugan
* Anthony Weiland
* Yifeng Yang
Zhirui Yang
Yuan Zhao

ENGINEERING MANAGEMENT

* Isabel Cristina Acevedo
James Arturo Aguado Granada
Grevikumar Ahari
Fateh Ahmad
Sarah Ahmad
Nisarg K. Amin
Anthony Ashraf Amirhom
Matteo Arlotti
Nabil Bachar
* Davide Barba
Peter Batista
Paolo Bedodi
Claudio Bertelli
* Joseph Bongiorno
Matthew C. Brown
† Timothy J. Brown
Hugo Caballero
John Cameron
Matteo Carboni
Lorenzo Carta
Twinkle Chaurasia
Edison S. Chinnery
Adit Rupesh Choksi
† Yong Bum Chung
Luca Fabrizio Cornici
Giacomo Cuttica
* Anthea D’Ambrosio
* Jimmy D’Ambrosio
Yurian de Jong
* Marshall J. Delgado
Federico Dellapina
Marco Del Monaco
Brikena Dervishi
† Vanessa Di Iorio
Aniket Pandurang Dige
Mrugakshi Bankim Doshi
† George A. Dussack
* Amaka Chisom Ekewi
Mahmoud M. Elashri
* Michael Luciano Elia
Christopher Rui Eugenio
† Robert Kenneth Fullagar III
Christine Tawfik Gadalla
Matthew Kenneth Galbraith
Samuele Gianni
* Jason D. Golabek
Lovish Goyal
Gianpietro Guatelli
Fangyunyue Guo
Sourav Halepalya
Aswathnarayan
Krishanth Hariharam
Abhi Rayna Harris
Tyler W. Heckman
* Shardul Suresh Hindlekar
Frank Anthony Iannarone IV
Krutti N. Joshi
Jonathan William Kleber
Borys Kobzei
Nikita Vijaykumar Kothiwale
Chinmay Nandkumar
Kulkarni
Jonathan L. Larrazabal
Adekemi Munat Lasisi
Rita Lorenzo
Namita Mahindru
Abhishek Malu
Harshita Manoj
Michael Mansour
Marco Maren
Francesco Milazzo
* Gaurav Girishkumar Modi
* Akilesh Mohanlal Naik
Maria Montalvo
Carlos B. Morales
Jayavamshi Nallappu Sudhakar
Monisha Natesh
Chiedozie E. Ojemeni
Nicolo Papini Bertelli
Honey T. Parikh
* Justin M. Parmley
* Hemang G. Patel
Krupa B. Patel
Kush Kinnarkumar Patel
Mitul R. Patel
Luca Pelizza
Filippo Perfetti
Matteo Picentini
Lorenzo Piga
Giorgia Piroli
Aneil L. Rannauth
† Hiren B. Rana
Vignesh Rangasamy
Victor Rivera
Luis Miguel Sacramento
Gina A. Sanford
Lizeth Santiago
† Ratan Sarker
* Alessandro Scaramuzza
Nishant I. Shah
† Syed Sharjeelullah
Simranjit Singh
* Sagar Solanki
Farih M. Souman
Siddharth Srinivasan
Siddharth Suresh
* Matteo Tagliaferri
* Micol Tarasconi
* Simone Thei
* Arianna Vernizzi
* Michelle Ann Vollo
* Nanabayin J. Wilson
  Westin Zeng

**ENGINEERING SCIENCE**
  Moulik A. Patel

**ENVIRONMENTAL ENGINEERING**
  Mark J. Coimbra
  Vivek Dabas
  Matthew D. Forshay
  Kush A. Patel
  * Umut Onur Yilmaz

**HEALTHCARE SYSTEMS MANAGEMENT**
  Zeyu Wang

**INDUSTRIAL ENGINEERING**
* Aakash Vijay Arbooj
  Dheeraj Reddy Chintapally
* Costas D. Georgopoulos
  Shivam Ravindra Jirnal
  Ajo I. Joseph
  Avinash Varma Mantena
  Wuraola Adeola Oggunowo
* Harsh Mukeshkumar Pandya
  * Sai Tarun Paruchuri
  Adit Vineshkumar Patel
  Parth Bachubhai Patel
* Srujal Gautamkumar Patel
  Prasad Rajendra Pusdekar
  Phily Rodriguez-Polanco
  * Furkan Sahin
  * Sabeel Zafar Iqbal Shaikh

**MANUFACTURING SYSTEMS ENGINEERING**
  Raymond O. Johns Jr.
  Yoeri Martinez
  David Allan Rose

**MATERIALS SCIENCE AND ENGINEERING**
  Saud Alssaidy

**MECHANICAL ENGINEERING**
  Khaled J. Alhaddad
  * Kevin R. Barker
  Anup Basavapura Kallesh
  * Eduardo Cristofolli
  Ryan J. Darrow
  * Emmanuel Demetrios
  Douranakis
  Mayank Dubey
  Mohamed Saad Elashkar
  Hardik Dipakkumar Gandhi
  Shantanu Sunil Ghorpade
  Alexander Paul Hanna
  * Tasin Hossain
  * Henry W. Hwang
  Rohith Ilamparidi
  Faraz Iqbal
  * Nicholas D. Keator
  * Jiaheng Lu
  Austin Lyons
  Nilay Nandkishor Panchal
  Aditkumar Ileshbhai Patel
  * Juan Diego Rava
  * Abhi J. Rawal
  * Justin T. Suriano
  * Dhruvil Dharmesh Topiwala
  * Michael P. Toriello
  * Samrat Vohra

**OCCUPATIONAL SAFETY AND HEALTH ENGINEERING**
  * Daena Charles
  Akif Hussain
  Nashrah Shah

**PHARMACEUTICAL SYSTEMS MANAGEMENT**
  Mitchel Bartko
  Namrata Rupen Patel

**POWER AND ENERGY SYSTEMS**
  Aftab Sayal Choudrie
  Vengat Raman Elumalai
  Joseph Paul
  Tony Tomey Jose

**TELECOMMUNICATIONS**
  Mandvi Alreja
  Sriram Adityan Ashok Kumar
  Adithyan
* Aalaap Buch
* Priya Kishor Dave
* Utkarsh Dineshbhai Patel
* Sony Uppu

**TRANSPORTATION**
* Yves Abi Aad
* Rami Bassil
* Yiling Kuang
  Abdul Dondoh Marah
* jihyun Park
* George Anthony Scoullos
* Kashish Samir Shah
* Christian Vila
# Candidates for Master's Degrees

## J. Robert and Barbara A. Hillier College of Architecture and Design

### Master of Architecture

<table>
<thead>
<tr>
<th>Candidates</th>
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<tr>
<td>Jillian T. Baumann</td>
<td>Jillian Gonchar</td>
<td>Antoinette Susanne Radici</td>
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<tr>
<td>† Matthew Sebastian Casaverde</td>
<td>Elmer Gutierrez</td>
<td>Yaneyri Mariel Rodriguez</td>
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<td>Leon A. Des Lauriers</td>
<td>* Abdullah Hamza</td>
<td>Kimberly Marie Torres</td>
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<td>† Ali El Mallah</td>
<td>Tavleen Kaur</td>
<td>* Vladislava Evgenievna Turbina</td>
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<td>* Mahmoud Ibrahim Eladly</td>
<td>Eugenia Manoussakis</td>
<td>Peter Mark Vidulich II</td>
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<td>Michael K. Fogarty</td>
<td>* Muznah Mirza</td>
<td>Melike Yildirim</td>
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<td>Pamela S. Niessink</td>
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### Master in Infrastructure Planning

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<td>Mateo Aristizabal</td>
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<td>Joanna Michel Khater</td>
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<td>* Anastasia M. Bohon</td>
<td>* Youliana El Komos</td>
<td>Steve Sebastian Vivar</td>
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### Master of Science in Architecture

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<td>Alexandra Nicole DePalo</td>
<td>* Ruben Petrela</td>
<td>* Aarsh Apurvabhai Ramolia</td>
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## COLLEGE OF SCIENCE AND LIBERAL ARTS

### MASTER OF SCIENCE

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<tr>
<td><strong>APPLIED MATHEMATICS</strong></td>
<td>Teng Chen&lt;br&gt;• Roghayyeh Haghvirdinezhad&lt;br&gt;General Ozochiawaeze</td>
</tr>
<tr>
<td><strong>APPLIED PHYSICS</strong></td>
<td>Tomasz Piotr Cyrulik&lt;br&gt;Patrick C. Dunn&lt;br&gt;Rachel Marie Frissell</td>
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<tr>
<td><strong>APPLIED STATISTICS</strong></td>
<td>Vincent Robert Capodanno&lt;br&gt;• Gregory Scott Collier&lt;br&gt;Eddie Filipovic&lt;br&gt;†Yichen Guo&lt;br&gt;Xiyin Huang&lt;br&gt;Shangjing Liu&lt;br&gt;Bayan Mousa Mafarjeh&lt;br&gt;Nishit R. Mody&lt;br&gt;• Albert Chaim Nedelman&lt;br&gt;Prince C. Ofori&lt;br&gt;Lu Wang</td>
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<td><strong>BIOLOGY</strong></td>
<td>Shivani Jaisinghani&lt;br&gt;Radha H. Patel&lt;br&gt;Adithya Subramanian&lt;br&gt;Sahasranamam</td>
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<td>Yuanren Cai&lt;br&gt;• Cheng-Chieh Huang&lt;br&gt;Larisse Kanson&lt;br&gt;• Jiashu Wu</td>
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<td>†Jose Manuel Diaz Antunes&lt;br&gt;Christina M. Brenckman&lt;br&gt;• Michael Cerrato&lt;br&gt;• Syed Z. Gardazi&lt;br&gt;• Kevin M. Gaynor&lt;br&gt;Arvind Ramachandran&lt;br&gt;• Chelsea Lynn Ramos&lt;br&gt;Matthew Paul Rizzo&lt;br&gt;Indrayani Thakare</td>
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<td>Jeremiah Agboola&lt;br&gt;• Jeevitha Lena&lt;br&gt;Siru Li&lt;br&gt;Niku Patel&lt;br&gt;• Celina Renda&lt;br&gt;Shreya Shreerang Sathe&lt;br&gt;Chuxuan Wang</td>
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<td><strong>TECHNICAL COMMUNICATION</strong></td>
<td>* Melissa M. Hayes&lt;br&gt;Jillian Leigh Kuzma&lt;br&gt;Ariana E. Ruggiero</td>
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CANDIDATES FOR MASTER’S DEGREES

MARTIN TUCHMAN SCHOOL OF MANAGEMENT

MASTER OF BUSINESS ADMINISTRATION IN MANAGEMENT OF TECHNOLOGY

Adam Adamson
† Elizabeth T. Ayoola
* Nesmet Awatif Badawi
Johanna Nathaly Balseca Quishpe
* Jacob M. Binstein
† Richard M. Castro
Paul Justin Clemente
* Anne C. Clyne
† Ismail Diab
Javier Diaz
Hossam M. Elshazly
Linette Encarnacion
Bryan Rocco Festa
* Benjamin Figueroa
Danny Garcia
* Michael Edward Giffin
Shakeena N. Hamidan
Danielle Kristen-Marie Hill
* Jesse Patrick Horsford
Rose Fatima Hussain Takiya Jones
* Jeril Jose
* Saadat Kalam
† Aaron J. Karlsruhe
* Tansel Kazoluk
Sara C. Keffer
† Keith Brandyn Kelly
† Ebram S. Keralos
† Arlene T. Lizeares
Christopher Matthew Lombardi
Terin Louis
* John S. Madaras
† Michael A. Maddaloni
* Claudia E. Mardones
† Irene Shaji Matthew
* Daniela M. Navarro
Ricardo Frias Nunes
Angelina Okwuego
Oritseneye Oghenekporobo Oyowe
* Dhruv Patel
* Dhruvin R. Patel
Kavita Patel
Natalie A. Peart
Shannon Peay
† Rahul Deepak Reddy Penaka
* Colleen Elizabeth Pitt
* Patrick Joseph Powlick
Navneet K. Purba
Andrew S. Rendon
* Abeer Sabzvari
Christina Sanchez-Abreu
* Jay Vijaykumar Shah
* Mohamed M. Shallan
Bishoy Sidhom
Harmeet Singh
* Kevin Alexander Smulski
Ryan Strassle
* Rita A. Tabe
Vincent Anthony Tong
* Chinyelu Umeokolo
† Krisa Varghese
† Gary E. White
* Alexandria J. Williams
* Wenhan Xue

MASTER OF SCIENCE

MANAGEMENT

Olukayode O. Abiba
Shilpa Omprakash Arya
* Abhinav Bassi
Luca Lunardelli Berger
Luke Binder
* Ariel J. Bolesa
* Yan Chai
* Anmol Dhawan
* Fiorella Doglio
Krishna V. Életi
Kasra Falaki
* Shyquan Gibbs
Adam Gonzalez
† Allison K. Cox
Srishti Gupta
Kyle R. Hartigan
† Shane D. Heeraman
* Jay S. Inamdar
Luyi Jin
Jared A. Kacso
Laiba Khan
Parker Alexander Lui
† Ryan S. Melink
* Mercedes Miranda Mayes
Nidhi Mishra
Shoaib Mohammed
* Michael Anthony Mulroe
Anil Shubham Nair
Olanrewaju Joseph
Oyebade
Devanshi Nimesh Parikh
Kajal Patel
Kevkumar Tejaskumar Patel
† Joseph Perri
Ashley D. Sanchez
Dalitzza Sanchez
Zankhana Shah
* Gan Shi
Iona C. Smith
Krishna Sutariya
Chenxi Yi
## YING WU COLLEGE OF COMPUTING

### Master of Science

**BIOINFORMATICS**
- Bishojit Saha

**BUSINESS AND INFORMATION SYSTEMS**
- Varsha Satram Ahuja
- Vikash Budhan
- Aaron A. Couto
- Mary Christine Gomez
- Vito DePalo
- Riya S. Desai
- Kayla A. Evans
- Vishwanath Kandaswamy
- Ezhil
- Riya Gandhi
- Sunitha Giridipudi
- Ullash Jain
- Janki J. Kachhiapatel
- Shamika Naik
- Richard Nunziante
- Unuoma M. Obanya
- Janki Rakeshbhai Patel
- Sneha Philip
- Nikitorn Pokklang
- Zakia Rahman
- Ruchi Rawat
- Sumit Rawat
- Erika L. Reyes
- Divyanshu Sachdeva
- Bikramjeet Singh Sandhu
- William L. Smith
- Brij Bhushan Thota
- Emerald D. Umstead
- Karan R. Walanj

**COMPUTER SCIENCE**
- Shweta Selvaraj Achar
- Shubham Agarwal
- Indira Anusha Akkiraju
- Nithin Reddy Alibommassandra
- Ramachandra
- Cynthia Alvarez Laveaud
- Amandeep
- Anthony I. Anderson
- Swetha Reddy Arimanda
- Sagar Kishorkumar Babariya
- Zachary C. Barnhart
- Joby Varghese Bejoy
- Abhay Bhagat
- Sneha C. Bhut
- Allen J. Blount
- Obada Boulad
- Shiraz A. Chaudhry
- Lin H. Chen
- Sai Teja Chirumamilla
- Saumya Ritesh Choksi
- Jessica L. Coyotl
- Jay Kishor Darji
- Neha Nafiska Das
- John Daudelin
- Nilesh Ramchandra Deokar
- Swapnil Sanjay Dhavale
- Xiaotong Ding
- Vishnu Divakar
- Harsh Uday Dodia
- Shubham Dubey
- Parthkumar Anilkumar Gandhi
- Pavan Bhaskar Rao Ghuge
- Daniel H. Gordon
- Vishnu Vardhan Reddy Gudipalli
- Andy Matthew Guinto
- Rohit Guttikonda
- Smit Nareshbhai Hapani
- Saurav Harjai
- Owen Edward Hope
- Kevin Hong Wuen Hsiau
- Mitali Italiya
- Maharshi Dharmesh Jani
- Lixing Jiang
- Qiming Jiang
- Yucheng Jiang
- Sai Sruity Kalavari
- Abhinav Reddy Kancharla
- Li Kang
- Khushbu D. Karielby
- Brij Dhirubhai Kathiriya
- Karan Katyal
- Faizan Anwar Khan
- Rafat Asad Khan
- Waheed Ali Khan
- Raunak Kharbanda
- Navya Martin Kollapally
- Venkat Jagannadh Koutha
- Siddhesh Bharat Kudav
- Pratik Jitendra Kulkarni
- Ashish Kumar
- Vivek Kumar
- Sai Srikanth Kurumaddali
- Daniel Vincent Larouche
- Sagar Rajeshbhai Lathiya
- Chenhao Li
- Li Li
- Che-Yi Lin
- Zhongan Lin
- Yan Ling
- Ziyang Liu
- Tianyang Ma
- Vineeth Reddy Maddula
- Swetha Mahesh
- Avaneesh Mallavarapu
- Dhruvish Mithil Mehta
- Saladin Minhaaj
- Monica L. Montiel Ubal
- Sai Vinay Mullapudi
- Nikitha Murugavel
- Sai Charan Reddy Muthyala
- Rayon Myrie
- Sajiyang Na
- Anmol Dheersingh Nahariya
- Kamlesh Ratnakar Naik
- Sushant Narang
- Kowsik Siddarth Narendran
- Shruthi Natarajan
- Ashwin Venkatesha Nayak
- Farnaz Nouri
- Oladeji Cornelius Olawoye
- Lotanna C. Ozoemena
- Aditya Nirav Parikh
- Himaniben Ashokkumar Patel
- Hitixaben Patel
- Janki Rakeshbhai Patel
- Jasminkumar Deepak Kumar Patel
- Jaykumar Patel
- Jinal Bhareshkumar Patel
- Kevin Pradipbhai Patel
- Krina Jayeshbhai Patel
- Manish Bhikhabhai Patel
- Namankumar B. Patel
- Neel A. Patel
- Nirav B. Patel
- Ravi Kamleshkumar Patel
- Siddhi Vash Patel
- Sahilkumar B. Patel
- Sanyamee Milindkumar Patel
- Shubhada Chandrashekhar Patil
CANDIDATES FOR MASTER’S DEGREES

Daniel K. Pavlick
Rohit Deepak Phadke
* Nicole De Carla Phillips
Srikanta Pilla
Rishitha Pothineni
Akul Anant Prabhudesai
* Shreyas Prakash Bhat
Shourya Punj
Qiong Qin
* Kapil Akshay Singh Raichur
Suryavamshi
Michael Renda
† Alexander E. Rodriguez
* Pranav Linesh Ruparelia
Monisha Ashok Salehittal
* Venkata Bhanudai
Samantapudi
Eshaainee Krishnakumar
Saraiya
† Ankita Mehul Savalia
Vivek Senapati
Akash Shah
Devam Manishbhai Shah
Karnav Jitendra Shah
Krunal B. Shah
Kunj M. Shah
* Pushkar Sandip Shah
Harshil Sharma
* Vibhu Sharma
† Alexander G. Shepherd
Richa Shrivastava
Sarvesh Shukla
* Karan Singh
Vishal Singh
Robert Smith
Sathyanarayanan Somasunder
† Steve M. St. Edward
* Aiswarya Sundaravelan
* Aiswarya Surendrababu
Raghu Vamsi Tangirala
Sampada Acharya Tegghal
* Rahul Abhishek Thanugundla
Rohit Lalit Thole
* Subra Veera Ranga Rao
Thummalapalli
Yash Tokas
Hrishikesh Reddy Tolmamdi
Nickeita Tomlinson
Sreekar Reddy Velayudham
† Nikhit Vemulapalli
Suraj Rajesh Vishwakarma
Deepam Wadhwani
Harshali Anil Wagh
* Akshay Kamlesh Waghela

Peiyu Wang
Chao Wei Wu
* Ming Wu
Zhen Xiao
Jiaming Xu
Kusuma Yalaka
Yuezhong Yan
Genwei Zhang
Hongyang Zhang
* Lee Rudel Zhang
Jingtao Zhou
Yimin Zhou

COMPUTING AND BUSINESS
Patrick Michael O’Keefe
* Brenda Ramirez
* Somsai Veerreddy

CYBER SECURITY AND PRIVACY
Raphael Archer
Christopher Bazzini
† Emiliano Caballero
* Yolanda Charlene Cooper
Zach Crossey
* George Benet
George G. Gindler
Aman Gupta
Rahmat Naga Sai Shruthi
Kanchibhotla
Kavya Kantharaju
† Natch Khongpasuk
† Nelly K. Laevsky
Christopher J. Martone
Prasannasai Meruga
* Keren Sabukie Oobutey
Nikisha Patel
Shreya A. Patel
† Harry Polshook
Pratyush Raghuwanshi
Ryan C. Rozaniatis
Ramon Salvador
Vishesh Priteshbhai Shah
Sydney Sigue
Borel Tafovi Fomekon
Gialani To
Meul R. Vaghani

DATA SCIENCE
* Amruta Abhyankar
Bhakti Nishikant Adke
Ketki Pramod Ambekar
* Anoohya Annamaneni
David Apolinar
* Albert K. Appouh
Bavithra Arumugam
Rucha Hemant Athavale
Prashant Dhanaji Badadhe
Lydia Gildes Barretto
* Srijan Reddy Belaganti
* Amanjeet Singh Bhatia
* Komaldeepkaur Narindersingh Bhatia
* Sirisha Bojjireddy
Eric Andrew Broderick
Brandon C. Buckner
Andres Castellano
Divya Chandana
* Manikanta Roopesh Chelikani
Kevin Chen
Shengchao Chen
* Honsan Choy
* Sai Akhilesh Chunduri
* Shaw Civicaria
Margarita Costa Matos
Wei Dai
Sunday Ayanleke David
Sai Vivek Reddy Donthala
Maha Faruque
Renozo C. Flores
Indrani Gazula
† Kaiyuan Gong
Sampath Gonnuru
Anupriya Suresh Gottkindhi
Kajal Gupta
Tanmay Gupta
Ojas Jain
Vishwashankar Thankarai
Janakiraman
Suraj Kumar Jha
† Krutarth Alkesh Joshi
Alexandra C. Kamenei
Vineesha Kamireedi
Akilesh Raghunandakumar
Kannamukkala
Shriishi Karakoti
Santosh Kumar Yadav Karna
Golla
Keerthiram Kathirvelu
Keval Kavle
Shanthi Sujith Kolluri
Abhishek Reddy Krishna
† Narasimha N. Kuchimanchi
Elizabeth A. Kurien
† Christopher Leung
Ang Li
Ziyang Li
Sreekanth Reddy Lingala
# Bachelors of Science

## Biomedical Engineering
- Ikhlas Khair Allah Abedrabbo
- Marina Abraam
- Areesha Adil
- Owais Aftab
- Parth V. Agrawal
- Sarah Amashah
- Neha G. Annigeri
- Areesha Adil
- Owais Aftab
- Parth V. Agrawal
- Sarah Amashah
- Neha G. Annigeri
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- Owais Aftab
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- Sarah Amashah
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- Sarah Amashah
- Neha G. Annigeri
- Ikhlas Khair Allah Abedrabbo
- Marina Abraam
- Areesha Adil
- Owais Aftab
- Parth V. Agrawal
- Sarah Amashah
- Neha G. Annigeri
- Regina B. Arias
- Iren Atalla
- Osama Bilal
- Kristina M. Boafo
- Angel Cadme-Avendano
- Anthony Cailles
- Angela Castillo
- Ilham Chahla
- Austin Lorenzo Channel
- Ediha S. Choudhury
- Katherine E. Coombs
- Mukti B. Darji
- Matthew M. Dasilva
- Kelly Nicole DiCristina
- Caroline A. D’Souza
- Ashley Fieldhouse
- Ruth J. Fiore
- Gisselle Fong
- Sri Sai Harshitha Gannamani
- Marisa Ghilarducci
- Anthony Serio Grelica
- Alexandra Griffith
- Yousef Hammouda
- Kimberly Hang
- Rama Hannineh
- Ania Harrell
- Ramzi Hatqua
- Ayoub Hbaich
- Naglaa Amgad Hemida
- Dana Hindi
- Merideth J. Huizing
- Renah Ibrahim
- Noah I. Kepes
- Jawairah Khan
- Megan F. Kielbus
- Jagoda Maria Kontor
- Vishal Kothari
- Nicholas Kozdron

## Chemical Engineering
- Hager R. Abdalla
- Sara Abdelhamid
- Mahum Ahmed
- Alana L. Alves
- Roberto A. Amaya
- Ana N. Astudillo
- Simon Blaise Balouga
- Christian G. Bernal
- Patrick Neil Black
- Daniela A. Bushiri
- Juan Cacho
- Jennifer R. Callaghan
- Edward W. Carcone
- Anthony Salvatore Caruso
- Gabriel N. Castro
- Ze Shuo Chen
- Marcella M. Choina
- Jason J. Cornick
- Felix B. De Dios
- Kalpan D. Desai
- Mariam Diabagate
- Matthew S. Drexler
- Asma Elgouz
- Imane Eljaili
- Tiffany A. Esteves
- Carmelo S. Gabayeron
- Daniel Galada
- Thea Gojo Cruz
- Hazem Hafez
- Denisse Hernandez
- Marcus R. Jackson
- Neil N. Jacob
- Erik Javornik
- Mina Jony
- Justinian Kennedy
- Mustafa E. Khedr
- Rony A. Khoury
- Christopher Gordon Kossor
- Arjun Kumar
- Koko Lear
- William A. Lejano-Gawrych
- Kendall P. Leung
- Nicole Elizabeth Loehle
- Miguel Lopes
- Christian A. Mangohig
- Miriam C. Marquez
- Richard W. Marsh
- Ryan Martinelli
- Daniel G. Mazewski
- Andres Mcrea
- Omowumi F. Mebude
- Andrew Megalla
- Ralph Gabriel Mendoza
- Emil Mojica
- Jessamine R. Mombay
- Hien Nguyen
- Amy D. Nunez
- John Nunez Jr.
- Chukwubuikem K. Okeke

† — August 2020 graduates
* — December 2020 graduates
<table>
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<td>Samantha M. Pascual</td>
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<td>* Josue M. Deidan</td>
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<td>Thomas P. Dougan</td>
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<td>* Maryam Echreshzadeh</td>
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<td>* Daniel Anthony Young</td>
<td>* Maryou Eissa</td>
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<td>* Sara Elad</td>
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<td>CIVIL ENGINEERING</td>
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<td>* Acacio Escada</td>
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<td><strong>Communication and Media</strong></td>
<td>Luz Ernestina Bautista, Alexis S. Magruder, David Manzanet, Alexander Chiu Chang, Cameron Greer, Matthew T. Trochim, Zachary Valbrun</td>
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- *Summa cum laude* — with highest praise
  - grade point average 3.850 - 4.00

- *Magna cum laude* — with great praise
  - grade point average 3.650 - 3.849

- *Cum laude* — with praise
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Jagoda Maria Kontor
Matthew A. Korwin
David Sergeyvich Koteav
Daniel Ksel
Sena A. Kumpaley
Anjali Kumari
Goce Kuzmanovski
Alexander K. Kwok
Alexander Lago
Matias Lago Evia
Osama Lahham
Diana Laskay
Emilio F. Lau
Matthew Laub
Nicholas R. Lavigna
Koko Lear
Tathiana Alejandra Leguizamon
Camargo
Brooke Leiser
Emmanuel Linares
Kelvin Liu
Nicole Elizabeth Loehle
VETERANS WHO SERVED IN THE ARMED FORCES

Rayas Ali
Nkuah O. Asare
Helder A. Banegas
Allen J. Blount
Paul F. Bosin
Edwin A. Brockner
John Cameron
Edisberto Cardona Jr.
Edison S. Chinnery
Carmine M. Coscia
Jason Dasilva
Ryan Doherty
Bradley Dumeny
Mahmoud I. Eladly
Asm Fakhruddin
Michael J. Galietti
Kevin M. Gaynor

Scotty Glass
Cameron Greer
Colin W. Hampton
Gregory Harz
Nickolas J. Heitkamp
Stephanie Hoang
Andrew T. Izzo
Loobans B. Jolicoeur
Justinian Kennedy
Hunter B. Kieran
Jeremy Langenderfer
Darryl E. Lewis
Alejandro Lozada
Grant S. Miller
Emil Mojica
Juan J. Montes
Kevin M. Moriarty
Louisa O. Nwogu
Anthony Parrinello

Dhruv Patel
Carlos Reyes-Paniagua
Michael J. Starace Jr.
Borel Tafopi Fomekon
Keina Thorpe
Chinyelu Umeokolo
Benedict K. Waiharo
Nyapaula Washington
Joseph Whitney
Elijah Williams
Nickolas Woll
Raymond C. Wong
Ivy Whitney
Sergio D. Zurita Sanchez

COMMISSIONS

UNITED STATES AIR FORCE RESERVE CANDIDATES FOR COMMISSION

Marc Vincent Acob Anonuevo
Jaime Ryan Felice

Nicholas Brian Furtzaig
Ivan James Stiscia

Peter Josef Stobinski
## Gonfalon Carriers

<table>
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<tr>
<th>College of Engineering</th>
<th>College of Science and Liberal Arts</th>
<th>Albert Doman Honors College</th>
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<tr>
<td>Newark College of Engineering</td>
<td>College of Architecture and Design</td>
<td>J. Robert and Barbara A. Hillier</td>
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<td>Roberto Adamson</td>
<td>Renae Van Grouw</td>
<td>Martin Tuchman School of Management</td>
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<td>Amanda Bermel</td>
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## Commencement Committee

<table>
<thead>
<tr>
<th>Eladio Ruiz 3rd (Chair)</th>
<th>Julie Jacobs</th>
<th>Ewa Staromiejska</th>
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<tbody>
<tr>
<td>William Araujo</td>
<td>Scott P. Janz</td>
<td>John Stefan</td>
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<td>Allison Babinski</td>
<td>Darlene Lamourt</td>
<td>Phil Stickna</td>
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<td>Joe Bonchi</td>
<td>Casey MacDonald</td>
<td>Amy Stinchcombe</td>
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<td>Isabel Bracero</td>
<td>Albert Martinez</td>
<td>Kathy Thompson</td>
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<td>Sylvana Brito-Rodriguez</td>
<td>Richard Martinez</td>
<td>Robin Timpanaro</td>
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<td>Lt. James Casey</td>
<td>Mercedes Miranda</td>
<td>Jerry Trombella</td>
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<td>Christine Cervelli</td>
<td>Gary Moore</td>
<td>Joe Vacca</td>
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<td>Mihaela Cohanoschi</td>
<td>Boris Nepomnyashchy</td>
<td>Angela Vega-Irvin</td>
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<td>Lt. Mark Cyr</td>
<td>Victoria Nguyen</td>
<td>Priya Vin</td>
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<td>Kristie Damell</td>
<td>Meaghan O’Connor Knight</td>
<td>Jennifer Vogel</td>
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<td>Kristen DeGraff</td>
<td>Wuraola Ogunnowo</td>
<td>Sanjeannetta Worley</td>
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<td>Darshan Desai</td>
<td>Christina A. Pascucci</td>
<td>Carolina Yanez</td>
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<td>Elizabeth DiBlasio</td>
<td>Anuj Patel</td>
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<td>Kyle F. Dobiszewski</td>
<td>Angela Retino</td>
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<td>Kim Dripchak</td>
<td>Shakera Rodgers</td>
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<td>Clarisa Gonzalez-Lenahan</td>
<td>Henry Rzemieniewski</td>
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<td>Devoni Hinton</td>
<td>Myrna E. Santiago</td>
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<td>Maryann Sawka</td>
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<td>Deneen B. Scuderi</td>
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<td>Michael Smullen</td>
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</tbody>
</table>
### AWARDS EARNED FOR ACHIEVEMENT IN THE YEAR OF GRADUATION

<table>
<thead>
<tr>
<th>Award Name</th>
<th>Recipients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allentuch Scholarship</td>
<td>David Bushiri</td>
</tr>
<tr>
<td>Richard Bowles Memorial Endowed Scholarship</td>
<td>Kinga Dabek</td>
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<tr>
<td>Cerkanowicz Scholarship</td>
<td>Christian Bernal</td>
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<tr>
<td>Chamberlain Endowed Scholarship</td>
<td>Elizabeth Archer, Nora Moustafa</td>
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<tr>
<td>Dr. Timothy N. Chang Memorial Scholarship</td>
<td>Roberto Adamson</td>
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<tr>
<td>Chemical Merit Endowed Scholarship</td>
<td>Sara Abdelhamid</td>
</tr>
<tr>
<td>Chris P. Christie '73 RAS-UG Scholarship</td>
<td>Roberto Adamson, Natalie Carnovale</td>
</tr>
<tr>
<td>Civil and Environmental Industrial Advisory Scholarship</td>
<td>Johnathan Town</td>
</tr>
<tr>
<td>COAD Art &amp; Design Director’s Scholarship</td>
<td>Nada Boules, Kaylin Wittmeyer</td>
</tr>
<tr>
<td>COAD Interior Design Designers of Distinction Third Year</td>
<td>Nada Boules</td>
</tr>
<tr>
<td>Cohen Memorial Scholarship</td>
<td>Birju Dhaduk</td>
</tr>
<tr>
<td>Colao Family Endowed Scholarship in International Design</td>
<td>Bridget Fitzpatrick</td>
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<tr>
<td>CyberCorps Scholarship for Service</td>
<td>Robert Arganiski, Diogo Cardoso, Nishaant Goswamy</td>
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<tr>
<td>Irene DeCaprio Endowed Memorial Scholarship</td>
<td>Melissa Quimis</td>
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<tr>
<td>Albert Dorman Honors College Advisory Board Scholarship</td>
<td>Victoria Kelyman</td>
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<tr>
<td>Joan Dorman Prize in Community Education &amp; Development</td>
<td>Paul Frederick Bosin</td>
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<tr>
<td>Dorman Honors Scholar</td>
<td>Nishaant Goswamy</td>
</tr>
<tr>
<td>Dorman Honors Scholars Exceptional Service Award</td>
<td>Laura Dawn Gould</td>
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<tr>
<td>Dr. Saul K. Fenster Endowed Scholarship for Exceptional Students</td>
<td>James Nanchanatt</td>
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<tr>
<td>Joseph M. Fitzgerald Award</td>
<td>Roberto Adamson</td>
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<tr>
<td>E. &amp; S. Fleisher Athletic Scholarship</td>
<td>Yasmeen Malik</td>
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<tr>
<td>General Endowed Scholarship</td>
<td>Paola Gonzalez</td>
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<tr>
<td>General Women in Science and Engineering</td>
<td>Paola Gonzalez, Rama Hannineh</td>
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<tr>
<td>Glass Scholarship</td>
<td>Swata Gada, Mitushi Khare</td>
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<tr>
<td>Governor’s Urban School Scholarship</td>
<td>Akilah Thomas</td>
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<tr>
<td>John C. Hartmann Endowed Scholarship</td>
<td>Seemab Asghar, Nishaant Goswamy, Kevin Jablonski</td>
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<tr>
<td>Highlander Freshman Scholarship</td>
<td>David Bushiri, Nishaant Goswamy, Vrushali Koil</td>
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<tr>
<td>Highlander Persistence Scholarship</td>
<td>David Bushiri, Vrushali Koil, Udodirim Nwosu, Akilah Thomas</td>
</tr>
<tr>
<td>Barry &amp; Elizabeth Hill Scholarship</td>
<td>George Aboudiwan, Elizabeth Archer, Roberto Arganiski, Christian Bernal, Jenna Bousellam, Michelle Doung, Yasmeen Malik, Maya Mehashe, Barry &amp; Elizabeth Hill Scholarship, George Aboudiwan, Daniela Asifiwe Bushiri, Nicole Loehle, Karen Reyes, Kardos &amp; Justin Family Annual Scholarship in Memory of John F. Papetti Sr., Sydney Sweet, James J. Kerrigan Memorial Scholarship, James Nanchanatt</td>
</tr>
</tbody>
</table>
Klenke Scholarship  
Christian Bernal

Kosonocky Scholarship  
Johnathan Town

KSS Architect Endowed Scholarship  
Maya Mehashe

Fred H. Kalhawy Endowed Scholarship  
Johnathan Town

Lipuma Endowment Scholarship  
Christian Bernal

Abb Lummus Global Scholarship  
Karen Reyes

Madame Mau Outstanding Female Engineering Student Award  
Daniela Asifiwe Bushiri

Martin Tichman School of Management Scholarship  
Racheal Ogungbile

Mathematical Sciences Scholarship  
Priya Patel

Men’s Swimming Athletic Scholarship  
Mattheau Bonner

Moles Scholarship  
Johnathan Town

Tahera Mumtaz Endowed Scholarship  
Roberto Adamson

M & R Naimoli Endowed Scholarship  
Yasmeen Malik

National Starch & Chemical Foundation Scholarship  
Neil Jacob

New Jersey Association of Intercollegiate Athletics for Women (NJIAAW) Woman of the Year Award  
Nicole Loehle

New Jersey Stars II Scholarship  
Joseph Peleo

New Jersey Undergraduate EOF  
Kadidatou Bakayoko

Newark College of Engineering Civil and Environmental Industrial Advisory Scholarship  
Johnathan Town

Newark College of Engineering General Scholarship Fund  
Kevin Jablonski

Newark College of Engineering Outstanding Senior Award  
Sydney Sweet

Newark College of Engineering Outstanding Senior Award in Chemical Engineering  
Sara Abdelhamid

Newark College of Engineering Otto H. York Outstanding Senior Award in Chemical and Materials Engineering Department  
Sydney Sweet

Newark College of Engineering Merit Scholarship  
David Bushiri

Newark College of Engineering Recruitment Endowed Scholarship  
Roberto Adamson

NJIT Academic Excellence Scholarship  
Kinga Dabek

NJIT Academic Scholar Award  
Karthik Budharaju

NJIT Board of Overseers Scholarship  
Anna Wadhwa

NJIT Board of Trustees Scholarship  
Sara Abdelhamid

NJIT Board of Visitors Endowed Scholarship  
Nicole Loehle

NJIT Dean’s Scholarship  
Catarina Dematos

NJIT Dean’s Scholarship  
Nicole Leohle

Ragavendra Prabhu Ramesh
NJIT Faculty Scholarship
Neha Annigeri
Bryan Cullano
Tyler Demarco
Laura Dawn Gould
Zaafira Hassan
Neil Jacob
James Nanchanatt
Manali Patel
Priya Patel
Patrick Rossidivito
Marisa Sigas
Aarati Srikumar
Sydney Sweet
Johnathan Town

NJIT Honors Scholarship
Sara Abdelhamid
George Aboudiwan
Roberto Adamson
Neha Annigeri
Elizabeth Archer
Mattheau Bonner
Jenna Bousellam
Karthik Budharaju
David Bushiri
Bryan Cullano
Kinga Gabek
Swate Gade
Laura Dawn Gould
Zaafira Hassan
Vctoriya Kelyman
Mitushi Khare
Vrushali Koil
Christopher Kossor
Kayla Mitchell
James Nanchanatt
Lucia Martinez Ortiz
Manali Patel
Priya Patel
Patrick Rossidivito
Akhil Samarth
Nitya Shah
Marisa Sigas
Aarati Srikumar
Sydney Sweet
Johnathan Town
Anna Wadhwa
Kaylin Wittmeyer

NJIT Honors Room Scholarship
Neha Annigeri
Karthik Budharaju
Bryan Cullano
Kinga Gabek
Swate Gade
Laura Dawn Gould
Zaafira Hassan
Christopher Kossor
Kayla Mitchell
James Nanchanatt
Manali Patel
Priya Patel
Akhil Samarth
Nitya Shah
Aarati Srikumar
Sydney Sweet
Johnathan Town
Anna Wadhwa
Kaylin Wittmeyer

NJIT Presidential Scholarship
Mattheau Bonner
Mitushi Khare
Vrushali Koil
Lucia Martinez Ortiz
Nitya Shah
Kaylin Wittmeyer

NJIT Urban Scholarship
Kadidiatou Bakayoko

Thomas Peterson Endowed Scholarship
Patrick Black

Pepsi Honors Endowed Scholarship
George Aboudiwan

J. Frank Perantoni Endowed Scholarship
Kelly Barragan

Perkins/Smith A&P Endowed Scholarship
Daniela Asifiwe Bushiri

Peterson Foundation Scholarship
Akilah Thomas
Murphy Pooled Endowed Scholarship
Johnathan Town

Pruett Scholarship
Tathiana Lequizamon

PS & S Annual Scholarship
Melissa Quimis
Johnathan Town

Rogers & MacFadyen Scholarship
Sara Abdelhamid
Christian Mangohig

George Rust Scholarship
Ayiah-Bideha Mohammad Al-Qanawi

Schering-Plough Honors Endowed Scholarship
Neil Jacob

Anna & Johann Spatz Memorial Scholarship
Christian Mangohig

Stevenson Family EAS Scholarship
Laura Dawn Gould

Gene & Susan Tremblay Endowed Scholarship
Jenna Bousellam

Turner Construction Company/Construction Management Endowed Scholarship
Salvator Casazza

Donald J. Wallace Endowed Scholarship
Victoriya Kelyman

HC Warden Scholarship
David Bushiri

Wells Fargo Scholarship
Jenna Bousellam

Ernest Willis Scholarship
Christian Mangohig

Jim Wise Scholarship
Marisa Sigas
Sydney Sweet
Anna Wadhwa

Jim Wise Honors Scholarship
Marisa Sigas

Ronald A. Wiss Memorial Scholarship
Natalie Carnovale

Women's Soccer Athletic Scholarship
Nicole Loehle
Yasmeen Malik

Women's Volleyball Athletic Scholarship
Udodirim Nwosu

Women's X-Country Athletic Scholarship
Miku Okada
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Colgate-Palmolive Company

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Mott MacDonald

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Fortium Partners, LP

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Simpson Thacher & Bartlett

Brett Newton  
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Avanade

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Jacobs

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Morgan Stanley

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Profeta Urban Investment Foundation

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Vice President for Human Resources

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Kevin Belfield, Ph.D.
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Oya Tukel, Ph.D.
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Craig Gotsman, Ph.D.
Dean of Ying Wu College of Computing

Louis Hamilton, Ph.D.
Dean of Albert Dorman Honors College
The pageantry and tradition of college and university commencement ceremonies originated more than 800 years ago in medieval universities of Europe.

These early universities were bodies or guilds of students who took their name from the Latin word universitas, meaning a number of persons associated into one guild or community. These guilds were dedicated to the mastery of the arts and sciences. The master’s or doctoral degree denoted full membership in the guild and admitted the recipient to the practice of teaching. The bachelor’s degree, on the other hand, originally indicated only that the recipient had entered a course of study leading to the doctorate or master’s. Later, the baccalaureate came to signify the completion of one level of study preparatory to higher degrees.

The term “commencement,” which means beginning, originally referred to the occasion on which the student received the master’s degree and “commenced” his career. Today, however, all levels of degrees are conferred at commencement.

Academic caps, gowns and hoods developed gradually from the long flowing robes that the teachers wore to protect themselves from the cold of the medieval buildings. As the scholars of the time were usually clerics, their robes differed little from those used by the church orders. Slowly, certain styles were designated for the universities, and these, with minor modifications, are the costumes worn today. Hoods were originally fashioned after the monk’s cowl. The cap, with its tassels, evolved from the skull caps of the scholar-monks. In France, where the degree system probably began, wearing the cap and gown marked the formal admission of the student to the body of masters.

Today, academic regalia is standardized by the American Intercollegiate Code.

In the United States, it is traditional for academicians to wear the gown and hood of the university where they received their highest degree.

The gowns of bachelor’s and master’s degree candidates are usually without trimmings, whereas those for the doctoral degree are faced down the front with velvet and adorned with three velvet bars on the sleeves. The hood, a triangular fold of cloth worn over the back of the gown, is faced with colors which signify the field of study in which the degree is earned. The colors of the lining are those of the college or university which granted the degrees. The length of the hood increases with each higher degree.

The cap may be the stiff-crown style (mortarboard), or the soft tam. The tassel for bachelor’s and master’s is black or color appropriate to the major; those of doctor’s are black or golden. The tassel is worn on the left side by those who have received a degree.

These colorful traditions culminate today in the academic procession and the commencement ceremony itself. They carry with them the splendor and majesty that is properly associated with such a happy and important occasion and help remind us of the long tradition of higher education.

THE MACE

The mace, used today as a symbol of authority invested in the president by the Board of Trustees, is the institution’s most sacred symbol of office. Dating back to medieval times, it was used by civil officers and bodyguards. Originating from fasces used during the Roman Empire to restore order and implement court-ordered punishment, fasces were carried in processions adorned with laurel on festive occasions and draped in cloth for mourning. Maces were also used in consecration ceremonies and to protect the pope, cardinals and bishops. In time, it became a staff borne by, carried before or placed near a magistrate or other dignitary as an ensign of his royal authority.

Presented as a class gift in the early 1950s, the mace is 30 inches in length, made of wood and metal struck in silver and cast in bronze. Its head is marked by the seal of the university at the time of its presentation. The mace is adorned with tassels representing the colleges and degrees awarded by the university.
THE PRESIDENTIAL MEDALLION

The use of medallions or large medals, as symbols of office and authority, is also a tradition stemming from medieval times. The presidential medallion of the university is struck in silver and cast in bronze. It is worn about the neck by the president of the university on ceremonial occasions.

The Presidential Medallion used today consists of two plates. The first plate is a replica of the medallion presented to the university in 1968 by the Alumni Association bearing the university seal at the time. The second plate bears the official university seal today.

THE GONFALONS

Gonfalons, the insignia or symbols first used by princes or states in medieval Italy, have in recent times become widely used by colleges of major universities. The 1987 commencement ceremony marked their first processional use by New Jersey Institute of Technology. Each of the NJIT colleges is identified by its own symbol and by the year of its establishment.

Newark College of Engineering has as its ensign a chess rook, an ancient symbol associated with engineering and problem-solving as well as an early device in heraldry. It is shown on a field of academic orange with the year 1919, as the date when degrees were first authorized for the college.

J. Robert and Barbara A. Hillier College of Architecture and Design carries as its symbol a representational column head, the classic denotation of the discipline which is used throughout the college. It is shown on a field of blue violet, the academic color, and bears the year designation of 1973.

College of Science and Liberal Arts is identified by a lamp, another medieval symbol, commonly seen as a source of intellectual, moral and spiritual illumination. The white and gold of the banner encompasses both arts and letters and theoretic and applied aspects of science. The college was organized as a degree-granting entity in 1982.

The American eagle in flight is the pictorial representation of Martin Tuchman School of Management, symbolizing vision, control and integrity. Often depicted on coinage and currency, the eagle enjoys a historical tie to business and management and is shown against light brown, the academic color of its discipline.

Albert Dorman Honors College, represented by a scroll, was established in 1993. The college aims to inspire and prepare NJIT Honors Scholars to succeed through the highest standards of personal and academic achievement.

Ying Wu College of Computing is represented as a circle of five segments symbolizing computing as an academic discipline that connects and enriches all disciplines. The light blue background signifies computing as a distinct discipline in its own right, while the colors in the circle represent the other academic disciplines.
ALMA MATER

To Alma Mater fair and great,
our voices now we raise.

Our gratitude we demonstrate,
your steady voice we praise.

Your challenge on us never fails,
a world of knowledge calls.

In heart and mind,
our trust we’ll bind

to our NJIT.

We’ll hold your memory ever dear,
your spirit we’ll revere.

To you we’ll promise loyalty,
our own NJIT.
As New Jersey’s public polytechnic university, New Jersey Institute of Technology (NJIT) has earned a reputation as one of the nation’s pre-eminent STEM-focused educational and research institutions. The university consistently is ranked among the highest in the United States for return on investment (ROI) for its graduates and ranks No. 1 nationally for student upward economic mobility, according to Forbes. NJIT’s economic impact on the State of New Jersey exceeds $2.8 billion each year, supporting more than 17,370 jobs and generating employment income of $956 million.

In 2020, NJIT was ranked third in New Jersey and 74th nationally by the Quacquarelli Symonds (QS) World University Rankings®, placing NJIT in the top 10% of universities nationwide. Additionally, U.S. News & World Report ranks NJIT among the best in the nation for graduate degree programs in engineering, with the 2022 rankings marking the sixth consecutive year NJIT has appeared in the top 100.

NJIT also has earned the distinction of being designated an “R1” research university by the Carnegie Classification®, which indicates the highest level of research activity. NJIT is one of only 131 universities nationally and just three in New Jersey to achieve this recognition.

With six colleges, 50 undergraduate degree programs, 68 graduate degree programs (including 20 programs leading to a Ph.D. degree in a professional discipline), and over 100 specialized laboratories and research centers, NJIT is home to more than 11,400 students and over 440 full-time and over 400 adjunct faculty members. The university maintains a student-to-faculty ratio of 15 to 1. Almost all of NJIT’s faculty hold the highest degree in their respective fields.

NJIT is a driving force behind a large number of technology- and innovation-based enterprises, as well as a wide range of business and industry public-private partnerships that have a significant impact on the economies of the state and the region. NJIT’s New Jersey Innovation Institute (NJII) was established in 2014 to work directly with business, industry and government for economic development. Now in its sixth year of operation, NJII conducts more than $80 million in economic development activities annually. NJIT also is home to VentureLink, a business incubator and accelerator. NJIT currently has 222 unexpired U.S. patents, 24 pending U.S. non-provisional applications, eight international (PCT) applications and 23 provisional applications, one of which is under conversion to a non-provisional application.

On June 30, 2020, NJIT unveiled its new strategic plan, Building on a Strong Foundation —NJIT 2025. The plan builds on the successes
of the university’s 2020 Vision—A Strategic Plan and incorporates a revised vision to become a preeminent public polytechnic research university with local and global impact, as well as renewed core values that include excellence, integrity, civility, sustainability, social responsibility, diversity and communication.

Building on a Strong Foundation—NJIT 2025 also upholds a new mission, the four elements of which will guide NJIT in contributing solutions for the grand challenges of the future and improving the quality of life today.

- **Education** – preparing diverse students for positions of leadership as professionals and as citizens through innovative curricula, committed faculty and expansive learning opportunities.

- **Research** – advancing knowledge to address issues of local and national importance with an emphasis on high impact basic, applied and transdisciplinary scholarship.

- **Economic Development** – anticipating the needs of business, government and civic organizations to foster growth, innovation and entrepreneurship.

- **Engagement** – applying our expertise to build partnerships, serve our community and benefit society as a whole.

Visit njit.edu/strategicplan/njit-2025 to learn more.

NJIT’s commitment to its students ensures that they have a full spectrum of the highest-quality educational, social and infrastructural resources necessary to be successful both in and outside of the classroom. For this reason, the university continues to deliver on its program of faculty renewal and capital investment aimed at meeting the needs of our growing student population and at giving students the edge they need in today’s demanding high-tech marketplace.

NJIT also makes significant contributions to the community through initiatives such as its $1 billion Campus Gateway neighborhood redevelopment plan. Phase 1 was launched on April 25, 2018, which is helping to revitalize a 22-acre area adjacent to the university’s campus. NJIT also supports the community through its annual Day of Service, Alternative Spring Break and numerous other community engagement service offerings that benefit the City of Newark and the State of New Jersey. In 2020, 3,704 students contributed 67,032 hours at 310 nonprofit agencies, communities and schools.