

HISTORY OF NJIT



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.

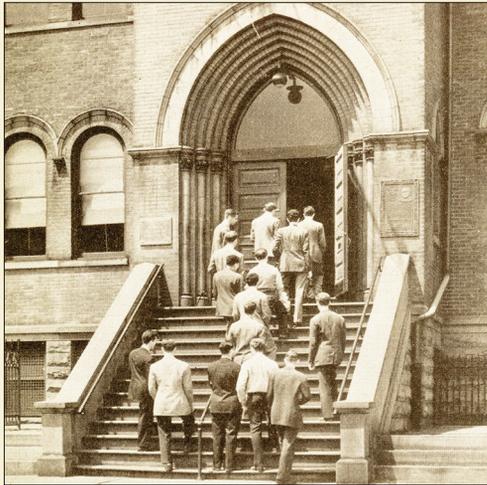
Under Dr. Allan R. Cullimore, who led the institution from 1920 to 1949, the modest Newark Technical School was transformed into the Newark College of Engineering (NCE). Campbell Hall was erected in 1925. During the lean years of the Depression and World War II, only the former Newark Orphan Asylum,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

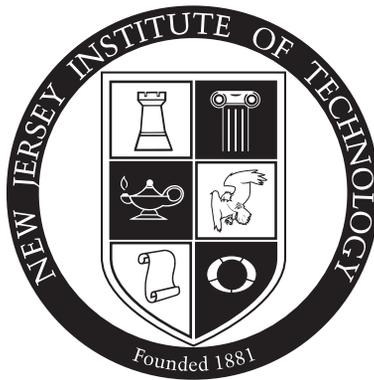
On December 11, 2017, NJIT officially opened its Makerspace, a large, well-equipped space for collaborative design and testing, featuring state-of-the-art machinery, including additive manufacturing equipment; CNC machines; a water jet; machinery for laser cutting, grinding and milling; and a large assortment of tools, devices, and metrology and precision measurement appliances. The 10,000-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 (NCE). 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 healthcare, 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 healthcare, but in environmental technologies and advanced manufacturing.

VIRTUAL
COMMENCEMENT
CEREMONY 2020



June Twelfth

Two Thousand and Twenty

4:00 P.M.

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 2020 virtual commencement ceremony 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 2020 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!

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.

COMMENCEMENT EXERCISES

UNIVERSITY VIRTUAL CEREMONY

Prelude Video

Class Crier	Nneka Irabor '20 Senior Class President
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The National Anthem	Hillary D.T. Gillings, M.A. Administrative Assistant Office of Institutional Effectiveness
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Greetings	Dr. Joel S. Bloom President NJIT
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Undergraduate Speaker	Amanda Azer '20 Student Senate President
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Graduate Speaker	Matthew Joseph Moye '20
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Presentation of Honorary Degrees	Stephen P. DePalma, PE, PP, CME '72 Chair NJIT Board of Trustees
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	Vincent L. DeCaprio Ph.D. '72 President and CEO (<i>Retired</i>) Vyteris, Inc.
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	M. Stanley Whittingham, Ph.D. Department of Chemistry and Materials Science and Engineering State University of New York at Binghamton
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	Steven B. Kalafer Chairman Flemington Car & Truck Country
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	The Honorable Sheila Y. Oliver Lieutenant Governor State of New Jersey
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Listing of the Candidates for Doctoral degrees begins on page 10.

Listing of Candidates graduating with Master's degrees begins on page 22.

Listing of Candidates graduating with Baccalaureate degrees begins on page 32.

Commencement Address	The Honorable Sheila Y. Oliver Lieutenant Governor State of New Jersey
Presiding	Fadi P. Deek '85, '86, '97 Provost and Senior Executive Vice President NJIT
Student Awards	Hashimoto Prize President's Medal for Academic Excellence Presentation
Conferring of Degrees	Stephen P. DePalma PE, PP, CME '72 Chair NJIT Board of Trustees
Alumni Speaker	Dennis L. Ciemniecki '82 President The Alumni Association of NJIT
Alma Mater	
Finale	
Presentation of Candidates	Doctoral, Master's and Baccalaureate Degrees

*Listing of the Albert Dorman Honors College Scholars appears on page 47.
Listing of Candidates graduating with Academic Honors appears on page 49.
Listing of Veterans who served in the Armed Forces appears on page 54.*

HONORARY DEGREES

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 SCIENCE, *HONORIS CAUSA*

Presented to

VINCENT L. DECAPRIO PH.D. '72

PRESIDENT AND CHIEF EXECUTIVE OFFICER (RET.)

VYTERIS, INC.

Vince DeCaprio is an independent consultant in the management of life science businesses and a partner in Proception Medical, LLC, a medical device development company. He also serves as director of product development for Footbridge Medical, LLC, engaged in the development of orthopedic products. He was formerly president, CEO and vice chairman of Vyteris, Inc., a drug delivery technology company. Prior to Vyteris, Dr. DeCaprio was a member of the leadership team at BD (Becton, Dickinson and Co.), a global medical technology company, where he served as senior vice president and held several management positions over his 23-year tenure, including general manager of advanced drug delivery, chief technology officer, president for BD's Technique Products surgical sector and president of BD's worldwide vascular access business.



Dr. DeCaprio has been engaged in the development and commercialization of several medical devices including insulin delivery systems, interventional radiology products, vascular access devices and orthopedic implants. He holds a Bachelor of Science in electrical engineering from New Jersey Institute of Technology, along with a master's and doctorate degree, both in bioengineering from New York University's Tandon School of Engineering.

Vince is active in the bioengineering community and was elected to the College of Fellows of the American Institute of Medical and Biological Engineering (AIMBE). He served on AIMBE's board of directors as chair of the industry council and organized and chaired industry forum sessions at AIMBE's annual meetings. He served as a member of the NJIT Board of Trustees from 1999 to 2020 and was a vice-chair of the board from 2010 to 2019 and chair of the Committee on Research and Academic Affairs. He is chair of NJIT's Industrial Advisory Board for the Newark College of Engineering biomedical engineering department and served on the industrial advisory boards of the MIT's Center for Biomedical Engineering, Johns Hopkins University Bioengineering Department, University of Utah's Bioengineering Department, and Georgia Institute of Technology's Petit Institute for Bioengineering and Biosciences. He also has served as chairman of the Utah Governor's Council on Science and Technology, and has spoken at numerous conferences on topics such as the management of innovation and health care industry and technology trends.

DeCaprio and his wife Mary Lou are active philanthropically with a special interest in the health and education of mothers and children around the world. DeCaprio is a member of Friends of ASPIRE of Columbia University's School of Social Work, a project engaged in assessing the health needs of Syrian refugee women now living in Jordan, and recently served as an executive producer on an award-winning documentary project, *A Syrian Woman*, directed by his son and filmmaker Louis. DeCaprio and his wife are also active in their support of NYU's Tandon School of Engineering in a project involving the STEM education of elementary school children. They have also been generous in their support of NJIT, having established and funded several scholarships as well as the Presidential Lecture Series. He often donates his personal time visiting lower school grades to lecture and inspire younger students to enter STEM fields.

THE DEGREE OF DOCTOR OF SCIENCE, *HONORIS CAUSA*

Presented to

M. STANLEY WHITTINGHAM, PH.D.

DISTINGUISHED PROFESSOR OF CHEMISTRY AND MATERIALS SCIENCE

AND ENGINEERING

STATE UNIVERSITY OF NEW YORK AT BINGHAMTON

M. Stanley Whittingham is a distinguished professor of chemistry and materials science and engineering at SUNY Binghamton, and is the 2019 Chemistry Nobel Laureate. He received his bachelor's, master's and doctoral degrees from Oxford University, where he is an honorary fellow of New College.

He has been active in Li-batteries since 1971, when he won the Young Author Award of the Electrochemical Society for his work on the solid electrolyte beta-alumina. In 1972, he joined Exxon's Corporate Research Laboratory and discovered the role of intercalation in battery reactions, which resulted in the first commercial lithium rechargeable batteries that were built by Exxon Enterprises. In 1988, he returned to academia at SUNY



Binghamton to initiate a program in materials chemistry. He initiated a graduate program in materials science and engineering. He was awarded a Japan Society for the Promotion of Science Fellowship in the Physics Department of the University of Tokyo in 1993. From 1993-1999, he was vice provost for research. In 2004, he received the Battery Division Research Award. He is presently director of the NorthEast Center for Chemical Energy Storage based at Binghamton. In 2012, he received the Yeager Award of the International Battery Association for his lifetime contributions to battery research; in 2015, he received the Lifetime Contributions to Battery Technology Award from NAATBaaT; in 2017 the Senior Research Award from Solid State Ionics; and in 2018, was elected a member of the National Academy of Engineering and received the Turnbull Award from the Materials Research Society. He is a fellow of both the Electrochemical Society and the Materials Research Society. He is vice chair, board of directors of the New York Battery and Energy Storage Technology Consortium (NYBEST).

THE DEGREE OF DOCTOR OF HUMANE LETTERS, *HONORIS CAUSA*

Presented to

STEVEN B. KALAFER

CHAIRMAN

FLEMINGTON CAR AND TRUCK COUNTRY

SOMERSET PATRIOTS BASEBALL TEAM

Steve Kalafer is an entrepreneur, businessman, film producer and philanthropist. In 1973, Steve entered the automotive industry and has built one of the most respected and successful franchises in the United States. He has over 16 brands in eight locations. As chairman, his leadership has brought Flemington Car and Truck Country and Clinton Honda national recognition at the highest level of the automotive industry for superior customer service and community involvement.



Steve has founded or co-founded several successful businesses. He is chairman and founder of Princeton/American Communications and the Healthcare Information Network; chairman and founding investor of the Somerset, N.J.-based health care/pharmaceutical company Pharmagistics; and founding investor of RVA Consulting, LLC, a management consulting firm that merged with Cartesian in 2007. Steve has combined business acumen and entrepreneurship with his long-time love of baseball. He is one of the founding directors of the Atlantic League of Professional Baseball and founding chairman of six-time Atlantic League Champion Somerset Patriots — a minor league team playing home games at TD Bank Ballpark in Bridgewater, N.J. In addition, Steve is a gifted producer of documentary films. His films — which include titles such as *Sister Rose's Passion*, *More, Dropping Out*, *Curtain Call*, *Bottom of the Ninth* — have garnered four Academy Award® nominations, Sundance Film Festival® and Tribeca Film Festival® awards, Best Documentary in the Los Angeles Short Film Festival® and Best Short Documentary at the New Jersey Film Festival®. He was awarded the Actors Fund of America Medal of Honor in April 2013.

As a philanthropist and civic leader, Steve has been deeply involved. He is a former member of the New Jersey Motion Picture and Television Commission under the Kean administration, served as an appointee to Governor Christine Todd Whitman's Economic Master Plan Commission for New Jersey and chaired the Transportation subcommittee. Steve recently retired from the board of New Jersey Manufacturers Insurance Company. He's been co-chair of the Chairman's Council of the Actors Fund of America, the Joe Torre Safe At Home Foundation, Robert Wood Johnson/Barnabas Health, and Chairman Emeritus of the Somerset Healthcare Foundation. Steve has also given generously to NJIT with the establishment of a namesake endowed baseball scholarship. Steve's dedication and personal commitment to his community have been recognized many times over. Awards include the Raritan Valley Community College 50th Anniversary Civic Leader Award, the Anti-Defamation League's prestigious Torch of Liberty Award, and numerous awards for his dedication to all issues that impact his community, including domestic violence and support for cancer patients and their families.

THE DEGREE OF DOCTOR OF HUMANE LETTERS, *HONORIS CAUSA*

Presented to

THE HONORABLE SHEILA Y. OLIVER
LIEUTENANT GOVERNOR, STATE OF NEW JERSEY

Lieutenant Governor Sheila Oliver is a self-described “Jersey Girl,” born and raised in an ethnically diverse Newark neighborhood.

Oliver was inspired as a young girl to be a fighter for the voiceless when her eyes were opened to societal injustices and inequities around her, often citing Charles Dickens’ *A Tale of Two Cities* as her youth awakening. She pioneered a successful career in public service advocating for social justice, women’s equality and education, ultimately becoming the first woman of color to serve in a statewide elected office in New Jersey history.



In addition to her role as Lieutenant Governor, she serves as commissioner of the Department of Community Affairs, where she leads efforts to strengthen and expand initiatives for fair and affordable housing, community revitalization, homelessness prevention and local government services that support New Jersey’s 565 municipalities.

Under her leadership, the department expanded and leveraged a wide range of initiatives aimed at assisting distressed municipalities, including the federal Opportunity Zones tax incentive, the newly revived Main Street New Jersey program, Urban Enterprise Zones, the Neighborhood Preservation Program and the Neighborhood Revitalization Tax Credit program, which received increased funding.

In her role as Acting Governor, she signed multiple bills into law, including those that established a Caregiver Task Force to identify ways to support people taking care of loved ones who are elderly or disabled, require all public school students in grades 6-8 to receive financial literacy education, strengthen equal pay for equal work by preventing employers from asking employees’ previous salary history and protect employees from wage theft.

Across her career, the Lieutenant Governor has worked in the public, nonprofit and private sectors, and also taught college courses. She served as a member of both the East Orange Board of Education and the Essex County Board of Chosen Freeholders.

In 2003, she was elected to serve the 34th Legislative District in the New Jersey General Assembly.

A trailblazer in every sense of the word, in 2010 she became the first African-American woman in state history to serve as Assembly Speaker, and just the second in the nation’s history to lead a state legislative house.

A proud alumna of the Newark public school system, Lieutenant Governor Oliver graduated cum laude from Lincoln University and received her Master of Science in community organization, planning and administration from Columbia University.

She is a proud 40-plus-year resident of East Orange where she treasures her time with her 92-year-old mother, who always encouraged her to be a critical thinker while fostering her passion for helping people through effective public policy.

THE HASHIMOTO PRIZE

Presented to

LIANG ZHANG '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 recipient of the Hashimoto Prize is Liang Zhang, an outstanding scholar who has earned the degree of Doctor of Philosophy through distinguished scholarship and research in electrical and computer engineering.

APPLIED PHYSICS

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

* **Farbod Mahmoudinobar**

BS Biomedical Engineering, Amirkabir University of Technology, Tehran, Iran
MS Biomedical Engineering, Amirkabir University of Technology, Tehran, Iran

Dissertation:
Amyloid Proteins and Fibrils Stability

Advisor:
Cristiano L. Dias, Ph.D.

* **Xu Yang**

BS Optical Science and Technology, Sun Yat-Sen University, Guangzhou,
People's Republic of China
MS Astrophysics, Purple Mountain Observatory – Chinese Academy of Science, Nanjing,
People's Republic of China

Dissertation:
*Investigation of Small-Scale Energy Release and Transfer Processes in the Solar
Atmosphere with High-Resolution Observations in Infrared*

Advisor:
Wenda Cao, Ph.D.

BIOLOGY

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

Lan Deng

BE Life Science and Biotechnology, China Pharmaceutical University, Nanjing,
People's Republic of China

Dissertation:
The Roles of Inhibition in C. Elegans Locomotion

Advisor:
Gal Haspel, Ph.D.

Rebecca Panko

BS Biology, The City College of New York, New York, New York

Dissertation:
*Plant Evolution and Urbanization: Quantifying the Effects of Natural Selection in Shaping
Shepherd's Purse (Capsella Bursa-Pastoris) Populations in New York City*

Advisor:
Daniel E. Bunker, Ph.D.

† — August 2019 graduates

* — December 2019 graduates

BIOMEDICAL ENGINEERING

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

† **Ahmad O. Alokaily**

BS Biomedical Technology, King Saud University, Riyadh, Saudi Arabia

MS Biomedical Engineering, University of Miami, Coral Gables, Florida

Dissertation:

Modulation of Corticospinal Excitability Induced by Paired Associative Stimulation Combined with Movement

Advisor:

Sergei Adamovich, Ph.D.

Aswati Aravind

BTech Biotechnology, Shanmugha Arts, Science, Technology and Research Academy,

Tanjavur, India,

MS Biomedical Engineering, Duke University, Durham, North Carolina

Dissertation:

Effects of a Primary Blast-Induced Traumatic Brain Injury on the Susceptibility to Behavioral and Neuronal Deficits on a Subsequent Blunt Trauma

Advisor:

Bryan J. Pfister, Ph.D.

Ahmet S. Asan

BS Mechatronics Engineering, Kocaeli University, Kocaeli, Turkey

MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

Modulation of Cerebellar Purkinje Cell Activity with Low Intensity Electric and Ultrasound Stimulation

Advisor:

Mesut Sahin, Ph.D.

† **Azeezat K. Azeez**

BS Biomedical Engineering, The City College of New York, New York, New York

Dissertation:

Developmental and Sex Modulated Neurological Alterations in Autism Spectrum Disorder

Advisor:

Bharat B. Biswal, Ph.D.

* **Yiming Cheng**

BS Life Science, Tongji University, Shanghai, People's Republic of China

MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

Perivascular Waste Metabolites Clearance in Central Nervous System (CNS)

Advisor:

James Haorah, Ph.D.

Sharareh Hashemi

BS Biomedical Engineering, Rutgers University, New Brunswick, New Jersey
MS Biomedical Engineering, Rutgers University, New Brunswick, New Jersey

Dissertation:

Schwann Cells in Combination with GAG-Mimetic Scaffolds for Spinal Cord Repair

Advisor:

Treena L. Arinze, Ph.D.

Yuyang Luo

BS Electronics and Information Engineering, Wuhan University of Science and Technology,
Wuhan, People's Republic of China
ME Electrical Engineering, Stevens Institute of Technology, Hoboken, New Jersey

Dissertation:

Neurobiological Markers for Remission and Persistence of Childhood Attention-Deficit/Hyperactivity Disorder

Advisors:

Xiaobo Li, Ph.D.

Tara L. Alvarez, Ph.D.

* **Xiaotang Ma**

BS Bioengineering, Northwest A&F University, Shaanxi, People's Republic of China
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

Cerebro-Vascular Disruption Mediated Initiation and Propagation of Traumatic Brain Injury in a Fluid Percussion Injury Model

Advisor:

James Haorah, Ph.D.

CHEMICAL ENGINEERING

† **Kerri-Lee A. Chintersingh**

BE Chemical Engineering, University of Technology, Jamaica, Kingston, Jamaica

Dissertation:

Improving Boron for Combustion Applications

Advisor:

Edward L. Dreizin, Ph.D.

Christopher D. Dobrzanski

BS Chemical Engineering, Rutgers University, New Brunswick, New Jersey
MS Chemical and Biochemical Engineering, Rutgers University, New Brunswick, New Jersey

Dissertation:

Calculating Elastic Properties of Confined Simple Fluids

Advisor:

Gennady Y. Gor, Ph.D.

* **Xinhang Liu**

BS Chemical Engineering, Lanzhou University, Gansu, People's Republic of China
MS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

Customized Boron and Magnesium-Based Reactive Materials Prepared by High Energy Mechanical Milling

Advisor:

Edward L. Dreizin, Ph.D.

† **Md Mahbubur Rahman**

BS Chemical Engineering, Bangladesh University of Engineering and Technology,
Dhaka, Bangladesh
MS Chemical Engineering, North Carolina Agricultural and Technical State University,
Greensboro, North Carolina

Dissertation:

Roles of Surfactant and Binary Polymers on Dissolution Enhancement of BCS II Drugs from Nanocomposites and Amorphous Solid Dispersions

Advisor:

Ecevit A. Bilgili, Ph.D.

† **James Paul Ronnander**

BS Chemical Engineering, Northwestern University, Chicago, Illinois
MS Chemical Engineering, Polytechnic Institute of New York University, New York,
New York

Dissertation:

Modelling In Vitro Dissolution and Release of Sumatriptan Succinate from Polyvinylpyrrolidone-Based Microneedles Aided by Iontophoresis

Advisor:

Laurent Simon, Ph.D.

Kai Zheng

BS Chemistry, Yunnan University, Yunnan, People's Republic of China
MS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

Particle Engineering via Surface Modification: Model Based Analysis

Advisor:

Rajesh N. Davé, Ph.D.

CHEMISTRY

* **Madiahah Saud Humoud**

BS Chemistry, Dammam University, Dammam, Saudi Arabia
MS Pharmaceutical Chemistry, Fairleigh Dickinson University, Florham Park, New Jersey

Dissertation:

Reduction in Salt Deposition on Carbon Nanotube Immobilized Membrane During Desalination via Membrane Distillation

Advisor:

Somenath Mitra, Ph.D.

* **Tinghan Zhao**

BM Clinical Medicine, Capital Medical University, Beijing, People's Republic of China
MM Surgery, China Medical University, Shenyang, People's Republic of China

Dissertation:

Mitochondria Imaging and Targeted Cancer Treatment

Advisor:

Kevin D. Belfield, Ph.D.

CIVIL ENGINEERING

Anuruddha Jayasuriya

BS Civil and Infrastructure Engineering, Asian Institute of Technology, Pathum Thani, Thailand

MS Structural Engineering, Asian Institute of Technology, Pathum Thani, Thailand

Dissertation:

Computational Modeling of Recycled Aggregate Concrete Systems

Advisors:

Matthew P. Adams, Ph.D.

Matthew J. Bandelt, Ph.D.

† **Lucas Martin**

BS Civil Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

Effects of Electro-Osmotic Consolidation of Clays and Its Improvement Using Ion Exchange Membranes

Advisor:

Jay N. Meegoda, Ph.D.

Marwa Mohsen Korayem

BS Civil Engineering, Alexandria University, Alexandria, Egypt

MS Civil Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

The Impact of Conversion on the Durability of Calcium Aluminate Cement Concrete Systems

Advisor:

Matthew P. Adams, Ph.D.

Mandeep Pokhrel

BE Civil Engineering, Pokhara University, Pokhara, Nepal

ME Structural Engineering, Asian Institute of Technology, Pathum Thani, Thailand

Dissertation:

Numerical and Analytical Methods to Predict Behavior of Reinforced Ductile Concrete Composites

Advisor:

Matthew J. Bandelt, Ph.D.

Gayani Sasendrika Gunarathna Karunarathna Mudiyansele

BS Civil and Infrastructure Engineering, Asian Institute of Technology, Pathum Thani, Thailand

MS Structural Design and Construction Management, Kingston University, London, United Kingdom

Dissertation:

Stress-State and Injection-Rate Dependent Damage Processes During the Hydraulic Fracturing of Granite

Advisor:

Bruno M. Gonçalves da Silva, Ph.D.

COMPUTER SCIENCE

Chaoran Cheng

BS Computer Science, Beijing Forestry University, Beijing, People's Republic of China

MS Computer Science, Beijing Forestry University, Beijing, People's Republic of China

Dissertation:

Transfer Learning: Bridging the Gap Between Deep Learning and Domain-Specific Text Mining

Advisor:

Zhi Wei, Ph.D.

* **Abdulrhman Fahad M. Aljouie**

BS Computer Science, King Saud University, Riyadh, Saudi Arabia

MS Bioinformatics, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

Cancer Risk Prediction with Whole Exome Sequencing and Machine Learning

Advisor:

Usman W. Roshan, Ph.D.

* **Amani Ayad**

BS Computer Science, Garyounis University, Benghazi, Libya

MS Computer Science, Monmouth University, West Long Branch, New Jersey

Dissertation:

Quantitative Metrics for Mutation Testing

Advisors:

Ali Mili, Ph.D.

Ji Meng Loh, Ph.D.

† **Xiaoyuan Liang**
BE Information Security, Harbin Institute of Technology, Harbin, People's Republic of China
Dissertation:
Applied Deep Learning in Intelligent Transportation Systems and Embedding Exploration
Advisor:
Guiling Wang, Ph.D.

ELECTRICAL ENGINEERING

Malihe Aliasgari
BS Pure Mathematics, Amirkabir University of Technology, Tehran, Iran
MS Pure Mathematics, Amirkabir University of Technology, Tehran, Iran
PhD Pure Mathematics, Amirkabir University of Technology, Tehran, Iran
Dissertation:
Coding Against Stragglers in Distributed Computation Scenarios
Advisor:
Jörg Kliewer, Ph.D.

* **Shruti R. Kulkarni**
BE Electronics and Communication Engineering, RNS Institute of Technology, Bengaluru, India
MTech Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, India
Dissertation:
Bio-Inspired Learning and Hardware Acceleration with Emerging Memories
Advisor:
Bipin Rajendran, Ph.D.

† **Xiaoyu Lu**
BS Electrical Engineering and Automation, Nanjing University of Technology, Nanjing, People's Republic of China
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Analyzing Evolution of Rare Events Through Social Media Data
Advisor:
Mengchu Zhou, Ph.D.

† **Xin Miao**
BS Physics, University of Science and Technology, Hefei, People's Republic of China
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Graphene Channels Interfaced with Distributed Quantum Dots
Advisor:
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BE Electronics and Communication Engineering, Government Engineering College,
Barton Hill, Thiruvananthapuram, India
MTech Microelectronics and VLSI Design, Indian Institute of Technology Bombay,
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Dissertation:

Efficient Hardware Implementations of Bio-Inspired Networks

Advisors:

Durgamadhab Misra, Ph.D.

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BS Electrical and Electronic Engineering, Dalian Maritime University, Liaoning,
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Dissertation:

Scanless Optical Coherence Tomography for High-Speed 3D Biomedical Microscopy

Advisor:

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BS Electrical Engineering, Wuchang University of Technology, Wuhan,
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MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

*Identification of Neurobiological Mechanisms Associated with Attention Deficits in Adults
Post Traumatic Brain Injury*

Advisor:

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Dissertation:

Subspace Portfolios: Design and Performance Comparison

Advisor:

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MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

Data Multiplexing in Vector Acoustic Communication: System Design and Experiments

Advisor:

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BS Electronic Science and Technology, Huazhong University of Science and Technology, Hubei, People's Republic of China
ME Information and Communication Engineering, University of Science and Technology of China, Hefei, People's Republic of China

Dissertation:

Communications with Spectrum Sharing in 5G Networks via Drone-Mounted Base Stations

Advisor:

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ENVIRONMENTAL ENGINEERING

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BS Civil Engineering, University of Tehran, Tehran, Iran
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Dissertation:

Compound Flooding in Coastal Areas Emanating from Inland and Offshore Events

Advisor:

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ENVIRONMENTAL SCIENCE

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BTech Biotechnology, West Bengal University of Technology, Kolkata, India

Dissertation:

Engineering of Escherichia Coli 2-Oxoglutarate Dehydrogenase Complex with Mechanistic and Synthetic Goals

Advisors:

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BS Public Health, Khon Kaen University, Khon Kaen, Thailand
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Dissertation:

Nanocarbon Modification of Membranes for Enhanced Water Desalination and Water Treatment

Advisor:

Somenath Mitra, Ph.D.

INFORMATION SYSTEMS

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Dissertation:

Early Detection of Fake News on Social Media

Advisor:

Yi-Fang Brook Wu, Ph.D.

MATERIALS SCIENCE AND ENGINEERING

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Dissertation:

Modeling Single Microtubules as a Colloidal System to Measure the Harmonic Interactions Between Tubulin Dimers in Bovine Brain Derived Versus Cancer Cell Derived Microtubules

Advisor:

Camelia Prodan, Ph.D.

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Dissertation:

Enzymatic Biofuel Cells in a Sandwich Geometry with Compressed Carbon Nanotubes/Enzyme Electrodes and Hybrid Patch Applications

Advisors:

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MATHEMATICAL SCIENCES

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Dissertation:

Convex Relaxations of a Continuum Aggregation Model, and Their Efficient Numerical Solution

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Dissertation:

Dimension Reduction Techniques for High Dimensional and Ultra-High Dimensional Data

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Dissertation:

Optimal Sampling Paths for Autonomous Vehicles in Uncertain Ocean Flows

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Dissertation:

Data Assimilation for Conductance-Based Neuronal Models

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Dissertation:

Topics on High Dimensional Selective Inference

Advisors:

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MECHANICAL ENGINEERING

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BTech Electronics and Communication Engineering, West Bengal University of Technology,
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MTech Materials Science and Nanotechnology, Jadavpur University, Kolkata, India

Dissertation:

Measurement of Stresses and Their Effect on Transport in Thin Film Battery Electrodes

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BS Thermal Energy and Power Engineering, Shanghai Institute of Technology, Shanghai,
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MS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:

Mechanical Characterization of Animal Derived Starting Materials for Tissue Engineering

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URBAN SYSTEMS

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Dissertation:

Building the Petro-Polis: Oil Capitalism, Imperialism, and the Making of Abadan, 1908-1933

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Dissertation:

Brasilidade in Built Form: Tracing National Identity in Modernist Architecture in Brazil, 1922-1968

Advisor:

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NEWARK COLLEGE OF ENGINEERING

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Drashtiben Ghanshyambhai
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Pranav Prabhakaran Sudha
* Vignesh Praphapananee
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* Mehmet Seckin
Madhushree Shivaraj
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ENGINEERING MANAGEMENT

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**ENVIRONMENTAL
 ENGINEERING**

* Christina Gadaleta
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**HEALTHCARE SYSTEMS
 MANAGEMENT**

* Andre Stephens

INDUSTRIAL ENGINEERING

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 Gautham Ganesan
 Omkar Suresh Hatti
 * Pranav Khurana
 * Saravanan Krishnan
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 Pranay Sai Reddy Manda
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 Harmandeep Singh Narang
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 Deval J. Patel
 Kush Mukundkumar Patel
 Shubham Jasminkumar Patel
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 Samarth Shakargaye
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INTERNET ENGINEERING

* Jay U. Shah

**MANUFACTURING SYSTEMS
 ENGINEERING**

Robert James Fourniadis
 Paul Hettesheimer
 † Abdul Majid Nazir Khattak
 Ayush Oberoi
 Jessica M. Sanchez

MECHANICAL ENGINEERING

Lorenzo Bertoletti
 Shimon Bhardwaj
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 Daniel A. Bonanno
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**OCCUPATIONAL SAFETY AND
HEALTH ENGINEERING**

Daena Charles
* Alexis Nicole Frees
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**PHARMACEUTICAL
ENGINEERING**

* Roya Amami
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Hardikkumar S. Patel
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**POWER AND ENERGY
SYSTEMS**

Miguel A. Briones
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TELECOMMUNICATIONS

Sara Memon

TRANSPORTATION

Saeedeh Firoozeh
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J. ROBERT AND BARBARA A. HILLIER COLLEGE OF ARCHITECTURE AND DESIGN

MASTER OF ARCHITECTURE

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MASTER IN INFRASTRUCTURE PLANNING

* Eka Pramuditha Bin Widodo

* Joseph P. Giambri
Merna H. Kamel

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MASTER OF SCIENCE IN ARCHITECTURE

* Vishnu Shankar Krishnan
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COLLEGE OF SCIENCE AND LIBERAL ARTS

MASTER OF SCIENCE

APPLIED MATHEMATICS

† Ziyang Guo
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APPLIED PHYSICS

Patrick C. Dunn
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APPLIED STATISTICS

* Kevin Chen
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BIOLOGY

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BIOSTATISTICS

Casey James Doremus
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CHEMISTRY

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ENVIRONMENTAL SCIENCE
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**MATERIALS SCIENCE AND
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**PHARMACEUTICAL
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**PROFESSIONAL AND
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BIOINFORMATICS

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Jaime Nufio	Mohamed Sangare	Avrohom M. Yelen
Julio Alberty Nunez	Antonia C. Santoro	Ramsha Zafar
Abigail Andaya Ocaya	Hunter Ashton Santos	Sergey Zavrazhnov
Katherine Orellana	Marco Antonio Santos	
Hiren Paghdal	Patricia Sarcauga	
	Steven T. Schaarschmidt	
	Joel S. Schechter	
	Mark Philip Schleper	
	Alisa M. Scivetti	
	Tejasree Seelam	
	Brett Philip Seidman	

VETERANS

VETERANS WHO SERVED IN THE ARMED FORCES

Ibukunoluwa A. Adaba
Manuel Aguas
Andy A. Alvarez
Manuel Avila
Jose G. Calle Vega
Jaime L. Esquilin
Valentina C. Folas-Ngueke
William Gleason
Michael Glinoga
Karl Hazucha
Steven R. Hergert

Luis A. Hilton
Andrew T. Izzo
Katie N. Keelen
Nathi O. Kijpatanasilp
Ashley Le
Quinn K. McCoy
Kevin Meyer
Andrew C. Monastero
Rodolfo Nunez
Ines M. Nzameyo
John A. Pacheco
Delvin Reneau
Jaclyn Riddle

Daniel J. Salib
Cedric Tchio Foudjo Kengne
Spencer O. Uzoma
Kaishon Way
Rachel R. Werner
Kyle H. Wydner
Zane A. Yuhas

COMMISSIONS

UNITED STATES AIR FORCE RESERVE CANDIDATES FOR COMMISSION

Sebastian Ortiz

Samuel V. Saint-Preux

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Ludvik Alkhoury
William Araujo
Ersal Aslam
Amanda Azer
Allison Babinski
Cara Bartolomeo
Joseph Bonchi
Isabel Bracero
Sylvana I. Brito-Rodriguez
Lorie Brown
Christine R. Cervelli
Gregg Chottiner
Mihaela Cohanoschi
Mark Cyr
Kristie I. Damell
Darshan J. Desai
Elizabeth DiBlasio
Kimberly S. Dripchak
Lisa C. Easton

Matthew Golden
Glenn Goldman
Clarisa Gonzalez-Lenahan
Blake Haggerty
Carly F. Hickey
Devoni Hinton
Karen Hume
Nneka Irabor
Julie Jacobs
Kathy James
Donald Kehoe
James A. Krucher
Darlene Lamourt
Daniel A. Livingstone
Chantonette Lyles
Casey MacDonald
James Marko
Albert Martinez
Richard Martinez
Andrew McDermott
Mercedes Miranda
Meaghan O'Connor Knight
Victor Passaro
Angela C. Retino

Shakera N. Rodgers
Lorna M. Ronald
Kip Rowan
Henry F. Rzemieniewski
Myrna E. Santiago
Maryann Sawka
Marc Sequerira
Nativita St. Louis
Ewa Staromiejska
Philip Stickna
Robin Timpanaro
Joseph Vacca
Angela Vega-Irvin
Michael V. Villani
Priya Vin
Jennifer Vogel
Sanjeannetta Worley
Carolina Yanez

AWARDS EARNED FOR ACHIEVEMENT IN THE YEAR OF GRADUATION

*AGC Education and Research Foundation
Scholarship*
Brady Mendoza Alcivar

*Atlantic Sun Conference (ASUN) All-Academic
Team in Women's Indoor Track & Field*
Sarah Morgan

Avanade Inc. STEM Scholarship
Tracey Brereton

Frederick and Florence Bauder Scholarship
Ayushi Sangoi

Louis Berger Group Scholarship
Claudia M. Mucha Alcalá

Board of Trustees Scholarship
Chinyere Chambers

Richard Bowles Memorial Endowed Scholarship
Ridhi Mehta

*Bozzelli, Greenberg and Kebbekus Endowed
Scholarship*
Jackenson Defendre

Jacqueline V. Brown Memorial Scholarship
Julianah Songonuga

Victor J. Cantlupe '30 Endowed Scholarship
Mohammad Ihsan

Dr. Timothy N. Chang Memorial Scholarship
Faiza Musarrat

Chemical Engineering Annual Scholarship
James Tarabokija

Chris P. Christie '73 RAS-UG Scholarship
Jeffrey Jude-Ibe

CIS Scholarship
Michael K. Tshimanga

CIS Undergraduate Scholarship
Michael K. Tshimanga

*Civil and Environmental Industrial Advisory
Scholarship*
Paula Andrea Heredia Guerrero

*College of Science and Liberal Arts
Outstanding Undergraduate Student Award*
Alexis Telyczka

*Concrete Industry Management Annual
Scholarship*
Reem Dewedar

Construction Roundtable Scholarship
Claudia M. Mucha Alcalá
Brady Mendoza Alcivar
Paula Andrea Heredia Guerrero

*Grosso/Davis Scholarship, Construction Industry
Advancement Program*
Maria Lancheros Barriga

Irene DeCaprio Endowed Memorial Scholarship
Karen Ayoub
Ariana Tay

C & T Dingle Foundation Scholarship
Shaurya Chandhoke
Michael K. Tshimanga

*Albert Dorman Honors College
Future Leader Award*
Naira Abou-Ghali

Christina and Robert Dow '69 Scholarship
Mohammad Ihsan

Drexler Annual Honors Scholarship
Samantha Lomuscio
Elizabeth Wisneski

*Dr. Saul K. Fenster Endowed Scholarship
for Exceptional Students*
Siraj Shaikh

David Garfield II Scholarship
Geetasravya Vegunta

Glass Scholarship
John Daudelin
Siraj Shaikh
Tom Trifon

Mike '63 and L. Gottlieb Resin Tech Scholarship
Jeffrey Jude-Ibe

Governor's Urban School Scholarship
Mohammad Ihsan

Helen and John C. Hartmann Endowed Scholarship
Jeffrey Jude-Ibe
Eben Khristi
Faiza Musarrat

Highlander Freshman Scholarship
Eben Khristi
Keirsten King
Michael K. Tshimanga
Ramsha Zafar

Highlander Persistence Scholarship
Paula Andrea Heredia Guerrero
Krystal Jo

Highlander Retention Scholarship
Ariana Tay

Honors College Scholarship
Ridhi Mehta
Shreena Mehta
Sarah Morgan
Julia Nguyen
Mitali Shah
Geetasravya Vegunta

Donald R. Hunter Memorial Scholarship
Ryan Salto

IEEE Power and Energy Society PES Scholarship
Jeffrey Jude-Ibe

*International Starch and Chemical Foundation
Scholarship*
Owais Aftab
Ariana Tay

E. Johanson Endowed Scholarship
Owais Aftab

James Kennedy Scholarship
Anthony Amirhom

*Jarmel Kizel Architects and Engineers
Endowed Scholarship*
Keith Scheideler

Walter M. Kosonocky Memorial Scholarship
Pedro Antonio Reis Moura

Kucklinski Scholarship
Sarah Morgan

Kupfrian Memorial Scholarship
Salma Kochay
Faiza Musarrat
Yash Rana

Thomas Maniscalco Physics Scholarship
David Monroe

Mathematical Sciences Scholarship
Songhai Chen
Daniel Newton

Raymond McGowan Scholarship
Faustin Arevalo
Intisar Tameen Chowdhury
David Matuszewski
Lesly Serrano

Robert Medina '75 Endowed Scholarship
Paula Andrea Heredia Guerrero

*J. Ray and Manuelita Michaud
Endowed Scholarship*
Karen Ayoub
Mohammad Ihsan
Natalie Kozan
Julia Nguyen
Ayushi Sangoi

John P. Murray Scholarship
John Daudelin

New Jersey Undergraduate EOF
Yash Rana

*Newark College of Engineering
General Scholarship Fund*
Richard Fernandez
Ayushi Sangoi

Newark College of Engineering Merit Scholarship
Anthony Amirhom
Faustin Arevalo
Intisar Tameen Chowdhury

*Newark College of Engineering
Outstanding Senior Award*
Ayushi Sangoi

*Newark College of Engineering
Outstanding Senior Award in
Biomedical Engineering*
Ayushi Sangoi

*Newark College of Engineering
Outstanding Senior Award in
Engineering Technology*
Vinnicius Coelho

*Newark College of Engineering
Outstanding Student Organization Award*
Yoshinori Jim Nomura

*Newark College of Engineering
Helen and John C. Hartmann
Outstanding Senior Award in Electrical
and Computer Engineering*
Rumil Rana

*Newark College of Engineering
John A. Reif, Jr., Outstanding Senior Award in
Civil and Environmental Engineering*
Niyam A. Shah

*Newark College of Engineering,
Edward H. Schmidt Scholarship*
Pedro Antonio Reis Moura

*Newark College of Engineering
Otto H. York, Outstanding Senior Award in
Chemical and Materials Engineering*
Ariana Tay

*Newark College of Engineering
Otto H. York, Service and Research Award in
Chemical and Materials Engineering*
Taylor Kvist
Pedro Antonio Reis Moura

NJIT Academic Excellence Scholarship
Owais Aftab

NJIT Academic Scholar Award
Julia Nguyen

NJIT Board of Overseers Scholarship
Karen Ayoub
Samantha Lomuscio

NJIT Dean's Scholarship

Ayeh Khalil
Salma Kochay

NJIT Faculty Scholarship

Kadijah Arsalan
Karen Ayoub
Chloe Blottman
Sophia Chan
Claudia Chen
John Daudelin
Elmar Ebrahim
Joshua Gallic
Nishanth Gona
Krystal Jo
Joseph Johns
Jagathi Kalluru
Noreen Kamel
Eben Khristi
Natalie Kozan
Andy Ling
Samantha Lomuscio
Hamzah Matakah
David Matuszewski
Shreena Mehta
Yasmine Mohamed
David Monroe
Amisha P. Naik
Daniel Newton
Jaime Nufio
Felix Pascua
Rutuja Patil
Shamayem Rasheed
Daniel Rodgers
Ayushi Sangoi
Sahiti Seetamraju
Mitali Shah
Siraj Shaikh
Pratik Sinha
Dhanush Sureshabu
James Tarabokija
Ariana Tay
Alexis Telyczka
Tom Trifon
Michael K. Tshimanga
Geetasravya Vegunta
Shruti Warriier
Elizabeth Wisneski

NJIT Honors Scholarship

Owais Aftab
Anthony Amirhom
Khadijah Arsalan
Karen Ayoub
Chinyere Chambers
Sophia Chan
Claudia Chen

Connor Criscoe
John Daudelin
Elmar Ebrahim
Joshua Gallic
Nishanth Gona
Krystal Jo
Jagathi Kalluru
Noreen Kamel
Ayeh Khalil
Natalie Kozan
Andy Ling
Samantha Lomuscio
Hamzah Matakah
David Matuszewski
Ridhi Mehta
Shreena Mehta
Yasmine Mohamed
David Monroe
Sarah Morgan
Amisha P. Naik
Daniel Newton
Julia Nguyen
Rutuja Patil
Daniel Rodgers
Ayushi Sangoi
Sahiti Seetamraju
Mitali Shah
Pratik Sinha
Dhanush Sureshabu
James Tarabokija
Ariana Tay
Alexis Telyczka
Tina Elsy Thomas
Tom Trifon
Geetasravya Vegunta
Shruti Warriier
Elizabeth Wisneski

NJIT Honors Room Scholarship

Owais Aftab
Sophia Chan
Claudia Chen
Connor Criscoe
John Daudelin
Joshua Gallic
Nishanth Gona
Krystal Jo
Jagathi Kalluru
Natalie Kozan
Andy Ling
Hamzah Matakah
Ridhi Mehta
Yasmine Mohamed
Julia Nguyen
Rutuja Patil
Ayushi Sangoi
Sahiti Seetamraju

Mitali Shah
Siraj Shaikh
Pratik Sinha
Alexis Telyczka
Tina Elsy Thomas
Tom Trifon
Geetasravya Vegunta
Shruti Warriier
Elizabeth Wisneski
NJIT Presidential Scholarship
Jessica Aseng
Chinyere Chambers
Connor Criscoe
Ridhi Mehta
Sarah Morgan
Ujjwala Rai
Tina Elsy Thomas
John and Greta Olsen Endowed Scholarship
Shaurya Chandhoke
Michael J. Pappas Scholarship
Jeffrey Jude-Ibe
Felix Pascua
Pelson Scholarship
David Matuszewski
Reif Family Endowed Scholarship
Brady Mendoza Alcivar
Jossua Caisabanda
Fatima Gamalel-din
Renard Communications Scholarship
Shruti Warriier
Robbins-Biano Honors Scholarship
Paula Andrea Heredia Guerrero
Edith Nourse Rodger STEM Scholarship
Jaime Luis Esquilin
Scotty Glass
Sandiway Scholarship Fund
Claudia Chen

Steven and Alison Saperstein Scholarship
Alexis Telyczka
Schering-Plough Honors Endowed Scholarship
James Tarabokija
Elizabeth Wisneski
School of Art and Design Travel Scholarship
Chloe Blottman
School of Management Endowed Scholarship
Kamrun Nasa
J. Malcolm and Diane Simon Scholarship
Chinyere Chambers
Turner Construction Company/Construction Management Endowed Scholarship
Ryan Salto
Arthur E. Vesco Scholarship
Reem Dewedar
Willits Foundation Scholarship
Rutuja Patil
Jim Wise Scholarship
Alexis Telyczka
George J. Yohrling '69 Endowed Scholarship
Intisar Tameen Chowdhury

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Member
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Dennis M. Bone

Vincent L. DeCaprio '72

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and Environment

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Steve Kalafer Chairman Flemington Car and Truck Country Somerset Patriots Baseball Team	Joseph T. Welch, III '62 (<i>Emeritus</i>) Division President (Ret.) BD
Robert J. Levin, Esq. General Counsel and Corporate Secretary Orbis Operations, LLC	Carlton R. West Senior Vice President and Chief Information and Operations Officer City National Bank of New Jersey
John McCann Operations Executive Con Edison Competitive Energy Solutions	

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President of the Foundation at NJIT

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Financial Officer

Marybeth Boger, Ph.D.
Dean of Students and Campus Life

Andrew P. Christ, PE '94, '01
Senior Vice President for Real Estate
Development and Capital Operations

Fadi P. Deek, Ph.D. '85, '86, '97
Provost and Senior Executive Vice President

Angela Garretson
Chief External Affairs Officer

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Chief Strategy Officer

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Vice President and Chief Commercial Officer,
NJIT
Chief Executive Officer, New Jersey Innovation
Institute

Donald H. Sebastian, Ph.D.
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Dean of Newark College of Engineering

Kevin Belfield
Dean of the College of Science and Liberal Arts

Branko Kolarevic
Dean of the J. Robert and Barbara A. Hillier
College of Architecture and Design

Oya Tukel
Dean of the Martin Tuchman
School of Management

Craig Gotsman
Dean of the Ying Wu College of Computing

Louis Hamilton
Dean of the 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 (mortar-board), 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 1950's, the mace is thirty 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 the 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.



The 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.



The 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 #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 2019, NJIT continued its impressive climb up the annual *U.S. News & World Report* ranking of colleges and universities by joining the top 100 National Universities for 2020. NJIT also is ranked #41 overall on the publication's "Best Value Schools" list and #43 overall among "Top Public Schools." Additionally, NJIT is ranked within the top 100 undergraduate engineering programs in the nation.

NJIT has also 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 nearly 500 full-time and adjunct faculty



members. The university maintains a student-to-faculty ratio of 16 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 fifth 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. In FY 2018, NJIT had 223 unexpired U.S. patents, 61 pending U.S. non-provisional patent applications and 34 pending U.S. provisional patent applications, and five under conversion to non-provisional patent applications.

On July 1, 2015, NJIT introduced its *2020 Vision-A Strategic Plan* to chart the university's

course during the second decade of the 21st century. It is the product of diverse perspectives, an exceptional breadth of talent and deep concern for all aspects of the university's mission. The five core strategic priorities are:

1. **Students** – To support and increase the number of high-achieving students who graduate
2. **Learning** – To provide a challenging, hands-on and relevant curriculum
3. **Scholarly Research** – A commitment to national and international preeminence and industry engagement (New Jersey Innovation Institute)



4. **Community** – To engage locally, regionally and globally
5. **Investments** – To fund a complete spectrum of resources including human, capital and physical infrastructure

NJIT will realize this vision through ongoing assessment of its progress to ensure success. This continuous assessment will keep the university on course to become one of the premier polytechnic institutions in the country, renowned for excellence in education, eminence in research, generosity in service and dedication to economic progress. Visit njit.edu/2020vision to view the *2020 Vision Mid-Cycle Report*.

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. This year, 3,425 students contributed 62,568 hours at 298 nonprofit agencies, communities and schools.



