



# 23 MAY 2023 SAN FRANCISCO | SILICON VALLEY

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We ask those in attendance to kindly silence their electronic devices and to remain in their seats until the platform party has left the stage and the graduate recessional has finished.

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### A UNIVERSITY ENGAGED WITH THE WORLD

# THE HISTORY OF NORTHEASTERN

Founded in 1898, Northeastern is a global research university and the recognized leader in experiential learning. Despite the university's current preeminence, Northeastern had modest origins.

At the end of the 19th century, immigrants and first-generation Americans constituted more than half of Boston's population. Chief among the city's institutions committed to helping these people improve their lives was the Boston YMCA. The YMCA became a place where young men gathered to hear lectures on literature, history, music, and other subjects considered essential to intellectual growth.

In response to the enthusiastic demand for these lectures, the directors of the YMCA organized the "Evening Institute for Young Men" in May 1896. Frank Palmer Speare, a well-known teacher and high-school principal with considerable experience in public schools, was hired as the institute's director. Two years later, under Speare's direction, the YMCA advertised the creation of the "Department of Law of the Boston YMCA," and on October 3, 1898, Robert Gray Dodge taught the first class. The program, an immediate success, marked the birth of Northeastern University. Speare would later remark, "We started with an eraser and two sticks of chalk."

When demand for other courses grew, Speare moved to add more programs, and in 1909 the full-time day colleges began instruction. That same year, the Evening Polytechnic School announced "cooperative engineering courses," in which students would have an opportunity to apply classroom knowledge in the workplace—the beginning of Northeastern's signature cooperative education program.

#### Decades of expansion

The school continued to grow, and in 1922 the College of Business was founded. More space was needed. The university purchased the former home of the Boston Red Sox in 1929, and in 1934 the Boston architectural firm Shepley, Bulfinch, Richardson, and Abbott was awarded the contract to design Richards Hall. Using what was to become the campus signature white brick—Shepley, Bulfinch presented plans for a neoclassical building. Opened in 1938, Richards Hall was the first building to appear on the front quadrangle.

As the campus grew, so did Northeastern's programs. In 1935, the College of Liberal Arts was added, signaling that Northeastern was on its way to becoming a major university.

When Speare stepped down as president in 1940, he was replaced by Carl Stephens Ell, dean of the College of Engineering. It was under Ell's leadership that Northeastern first admitted women to full-time day programs.

In the postwar world, Northeastern, like its peer institutions, saw a phenomenal increase in the number of people attending college. The university expanded its programs to accommodate this growing population of increasingly diverse students. In rapid succession, additional programs and colleges were established: College of Education, 1953; University College, 1960; College of Pharmacy, 1962; College of Nursing, 1964; Boston Bouvé College, 1964; College of Criminal Justice, 1967; and College of Computer Science, 1982.

This expansion of programs brought with it a need for more buildings—and land. When Ell retired as president in 1959, he was succeeded by Asa S. Knowles. Under his leadership, suburban properties in Weston, Nahant, and Burlington were acquired and the Boston campus blossomed with new buildings, including various undergraduate dormitories designed to accommodate the increasing number of residential students at what had been primarily a commuter campus.

#### Transforming the Boston campus

When Knowles retired in 1975, he was succeeded by Kenneth G. Ryder, who had begun his career at Northeastern as a member of the history department and had risen through the ranks to become executive vice president before his election as president. Under his leadership, the university expanded and enriched its programs, particularly in the arts and humanities, and continued to improve its facilities. Plans for the Snell Library were finalized during Ryder's tenure, and the campus was beautified. During these years, Northeastern also deepened its commitment to Boston and its neighborhoods.

In 1989, Ryder stepped down as the fourth president of the university. He was succeeded by John A. Curry, Northeastern's executive vice president and its first alumnus to become president. With President Curry in charge, the university embarked on a series of ambitious undertakings, including a new science and engineering research center, a state-of-the-art classroom building, a recreation complex, and several new graduate and undergraduate programs.

To support these new ventures, Curry led Northeastern in a successful fundraising campaign. His years of leadership also featured significant restructuring as the university prepared to enter its second century. In June 1996, after four decades of service, Curry retired from Northeastern. To succeed him, the trustees elected Richard M. Freeland as the university's sixth president.

#### **Elevating experience**

A distinguished historian and administrator, President Freeland brought to the university a renewed sense of energy and mission. His programs were designed to support his vision of Northeastern as a university that would be student-centered, practice-oriented, and urban. Northeastern developed the West Campus with architecturally acclaimed residence halls and teaching facilities for the health sciences and computer science, and added new spaces to enrich student life on campus.

When Freeland stepped down in 2006, he was succeeded by Joseph E. Aoun, an internationally known linguistics scholar. Northeastern's seventh president came from the University of Southern California, where he served as dean of the College of Letters, Arts, and Sciences. President Aoun developed an academic plan outlining the university's vision in several areas: experiential learning, global outreach, use-inspired research, urban engagement, and intellectual life. He greatly expanded global co-op opportunities. He also aligned the university's research with three worldwide imperatives—health, security, and

sustainability—with a focus on interdisciplinary solutions.

#### A rising global profile

Under Aoun's leadership, Northeastern launched a system of campuses designed to be platforms for lifelong learning aligned with area economies. The first two opened in Charlotte, North Carolina (2011), and Seattle (2013). Three more campuses followed in San Francisco and San Jose, California (2015), and in Toronto (2016).

In 2016, Aoun led the development of a new academic plan, *Northeastern* 2025. The plan was a blueprint for transforming the university into a global university system—featuring networks of learners and innovators—designed to empower people to succeed in this era of unprecedented technological change. Accordingly, the university expanded the role of its global campuses to serve as platforms for learning, research, and industry partnerships. In 2019, it opened another location in Vancouver and acquired New College of the Humanities in London, now officially Northeastern University London and offering undergraduates a unique opportunity to earn a dual U.S./U.K. degree. Later in 2019, Northeastern launched a research campus in Arlington, Virginia, an addition to two existing research campuses in Nahant and Burlington, Massachusetts (formed in 1967 and 2012 respectively).

Then in January 2020, technology entrepreneur David Roux and his wife, Barbara, made an investment in the university to open the Roux Institute in Portland, Maine. The institute focuses on graduate studies and research in fields such as AI, digital engineering, and advanced life sciences, amplified by industry partnerships. It was specifically designed to be a model of how higher education can ignite economic development in regions of the country largely bypassed by the innovation economy, setting a new bar for what the global university system could achieve.

#### **Resilience and momentum**

The same revolutionary vision for global learning and discovery that inspired Northeastern 2025 infuses the university's latest academic plan, *Experience Unleashed*. The plan is designed to deepen the impact of Northeastern's global network by maximizing the power of experience to understand and solve the world's interconnected, ever-evolving challenges.

In 2022, the university took a significant step in realizing the potential for its global system by merging with Mills College in Oakland, California, becoming the first university with comprehensive residential campuses for undergraduate and graduate students on both U.S. coasts. Northeastern's Oakland campus is now home to Mills College at Northeastern and the Mills Institute, focused on equity, social justice, and women's leadership. Later in 2022, Northeastern announced its newest campus in Miami, with graduate education and innovation partnerships aligned with South Florida's economic growth.

Thanks to the dedication and hard work of our university community, Frank Palmer Speare's "eraser and two sticks of chalk" have evolved into one of the world's most innovative universities and a platform for significant impact. Our faculty collaborates more fluidly with experts across industry, government, and community-based organizations. Ideas and solutions can be scaled. And our students are empowered to be true global citizens, scientists, entrepreneurs, and creators—prepared to make an impact wherever they go.

### **CAMPUS HISTORY**

#### San Fransisco

Northeastern's San Francisco campus opened for classes in 2018. Located in the heart of the Financial District, the campus is supported by a strong startup culture, especially within the tech and financial industries. As such, the San Francisco campus programs align with the area's culture of innovation and entrepreneurship. The campus is ideally situated for networking opportunities, as it sits adjacent to the headquarters for industry trailblazers, such as Airbnb, Twitter, Uber, Reddit, and many more. Northeastern in San Fransisco offers master's-level computer science programs and unique semester abroad opportunities for business students.

#### Silicon Valley

Northeastern's Silicon Valley campus, founded in 2015, is an incubator to top tech talent. Neighbor to some of the world's largest technology companies, including Facebook, Zoom, Tesla, Apple, and Adobe, our Silicon Valley campus in downtown San Jose prepares students to thrive in an ever-changing, tech-driven ecosystem and serves as a bridge to the region's corporate and startup communities. To meet the needs of regional and global employers, the Silicon Valley campus specializes in master's-level programs in information systems, computer science, analytics, and data science.

### LAND ACKNOWLEDGMENT

We honor Indigenous peoples in the United States and Canada including those on whose ancestral homelands the Northeastern global university system resides in North America. We acknowledge the peoples who have stewarded these lands since time immemorial and we recognize the nations and their ancestors who belonged to, cared for, and protected the land.

### PROGRAM

Prelude Bay Area String Quartet

Processional

Candidates Faculty Platform Party led by Marshal Alvaro Monge Teaching Professor, Assistant Dean and Director of Computing Programs

Land Acknowledgment Marshal Alvaro Monge Teaching Professor, Assistant Dean and Director of Computing Programs

National Anthem Bay Area String Quartet

Welcome Dawnalynn Girardelli, CPS '22 Interim Regional Dean & CEO

Global Network Greeting Mary Ludden Senior Vice President for Global Network & Strategic Initiatives

Presiding Provost Acknowledgment Mike Pollastri Senior Vice Provost

Student Address Kristine Nnennia Umeh, CS '23 M.S. Computer Science, Khoury College of Computer Science

Commencement Address Marquis Cabrera, SSH '11 Founder and CEO, Stat Zero Degrees in Course Dawnalynn Girardelli, CPS '22 Interim Regional Dean & CEO

Dean Gregory Abowd College of Engineering

Jodi Tims, Associate Dean of Network Programs Khoury College of Computer Science

Dean Radhika Seshan College of Professional Studies

Conferring of Degrees Mike Pollastri Senior Vice Provost

#### Announcement of the Graduates

Alumni Welcome Alexandra Legend Siegel, AMD '14 Vice President of Diversity, Equity and Inclusion, Expedia Group

Charge to the Graduates Dawnalynn Girardelli, CPS '22 Interim Regional Dean & CEO

Recessional Platform Party led by Marshal Alvaro Monge Teaching Professor, Assistant Dean and Director of Computing Programs Faculty Graduates

We kindly ask those in attendance to silence their electronic devices.

# **COMMENCEMENT ADDRESS**

Commencement Speaker Marquis Cabrera

Marquis Cabrera is the CEO and chair of Stat Zero, a global venture platform that acts as a marketplace of on-demand solutions to enduring global problems such as homelessness, illiteracy, and wealth inequality.

The platform provides venture capital and consulting services to support social impact entrepreneurs and innovators, connecting them to markets and government agencies that enable their ideas to be implemented at scale. Since its founding in 2019, the Palo Alto-based company has raised \$250 million toward a planned billion-dollar impact fund.

In cofounding Stat Zero, Cabrera was inspired by the vision of a world with zero poverty, zero disease, and zero pollution—and he was committed to an idea: Venture capital-powered partnerships integrating innovators with public policymakers are vital to bringing that vision to life.

As Cabrera said in a talk about impact investing at Northeastern's Bay Area campus, "Governments are at the center of every change. They're the market makers, they're the market leaders."

Cabrera has extensive experience working at the intersection of government, innovation, and advanced technology.

Prior to founding Stat Zero, he was, at age 26, IBM's youngest executive, serving as Global Leader of Digital Government Transformation and global head of IBM's Government and Education Industry Garage. In that role, he advised senior government officials and developed technology-fueled transformation solutions throughout the world. For example, he helped develop the United Arab Emirates' artificial intelligence lab roadmap, secured blockchain agreements in Europe, closed cloud services deals in Australia and South Africa, and worked on public safety and defense technologies for NATO and other global security agencies.

While at IBM, he also coauthored the executive report A *two-front* battle: How governments can prevail in the face of the global skills crisis for IBM's Institute for Business Value.

Stat Zero is Cabrera's fourth startup. His compelling personal story fueled his first entrepreneurial initiative. He grew up in a low-income neighborhood in New York City's Harlem, and he was in foster care from 1996 through 2003. Shortly after graduating with high honors from Northeastern, Cabrera launched Foster Skills, Inc., a nonprofit providing practical life skills and emotional stability to foster youths in Boston. He also founded two other start-ups: RateMyFosterHome.com and Physiocare.io, a mobile technology venture for the physical therapy market.

Cabrera writes a column for *CIO.com*, Hacking Government, featuring interviews with senior government officials and civic innovators. He also served on the World Economic Forum's Global Council for AR and VR.

Among his awards and honors, Cabrera won *The Boston Globe's* Massachusetts Innovator of the Year; the Massachusetts Nonprofit Young Professional Excellence Award; the Case Foundation's Finding Fearless Award; and tied for first place in McKinsey's Agility Hackathon. He was also named a Microsoft YouthSpark Changemaker.

His TEDx talk "How to Create a Successful Social Enterprise" has received over 40,000 views, and he has been featured in *Forbes, The Sydney Herald*, and on National Public Radio. He holds a Bachelor of Science in criminal justice from Northeastern.

# **COLLEGE OF ENGINEERING**

### Master of Science in Information Systems

Oletti Irudayaraj Allen Sebastian	Xiaoyan Luo
Umang Jitendra Barot	Dhruv Mishra
Kai-Wen Chen	Sidharth Ranganathan
Jing Dong	Wei Ruan
Kunjan Praful Gala	Weixin Wang
Yitong Guo	Yu Wang
Shanshan Guo	Li Xiong
Rashmi Hindiganal Prasanna	Zhiming Xue
Jingmin Hu	Zequn Yu
Yuning Huang	Xiaomin Zhang
Linyue Huang	Xiao Zhang
Xuan Ji	Yajian Zhang
Ayush Joshi	Yumeng Zhang
Rutuja Raghunath Kale	Bo-Zhong Zhang
Yuanying Li	Ying Zhang
Yanzhao Li	Mengyang Zhang
Yiming Li	Xiaolu Zhao
Jia Liu	Huangkai Zhao
Bo Liu	Zhiyu Zhou
Xikai Liu	Haotian Zhu
Fei Lu	Yini Zhuang
Chun-Yen Luan	

# **COLLEGE OF ENGINEERING**

Master of Science in Cyber-Physical Systems Yisheng Tang Xinyi Wu Zhan Wang

### **COLLEGE OF PROFESSIONAL STUDIES**

Master of Professional Studies in Analytics

Pavan Kumar Bansal	Zhenzhen Ren
Priyanka Chandak	Zixi Shi
Sourabh Dipak Khot	Ngoc Nhu Tran
Meijun Lin	Dan Xian
Jiawei Liu	Meiwen Xiao
Ankit Mehra	Xuejiao Zhong
Yu Qiu	

### **COLLEGE OF PROFESSIONAL STUDIES**

Master of Science in Project Management	
Aleksandra Belugina	K Aishwarya Pillai
Kajal Dineshkumar Dave	Viva Ranka
Lalaine Denia	Swapnil Rajan Raut
Vishnu Madhavi Emmadisetty Venkata Lakshmi	Shilpa Sahoo
	Nafisa Mohammed Sayerwala
Paridokht Sadat Esbah Tabaei	Ruchika Sharma
Krishna Reddy Esireddy	Shengmin Shi
Akshay Kautkar	Kriti Thakur
Minwoo Kong	Nithisha Thavanam
Jiamin Luo	Bohui Yu
Siddharth Manchanda	Runzhe Zhao

### **KHOURY COLLEGE OF COMPUTER SCIENCES**

Master of Science in Computer Science Xue Bai Kennedy Chiemeka Ezumah Chenjie Bei Shoujuan Fan Shivani Ghanashyam Bhalerao Wenrui Fang Sadiya Iqbal Dawood Bhawania Yu Fu Ying Bi Fengrui Gan Ruolin Bi Yucheng Gong Jianwei Bi Harshita Goyal Katerina Bosko Chang Guan Zhixuan Cao Weiran Guo Yucen Cao Yongxian Hao Jinyin Chai Siyu Hou Michael Chang Mengxiao Huang Kun Chao Shiyu Huang Zhenyu Chen Cunxi Huang Xingzhi Chen Lun Jyun Jhu Shutong Chen Aparna Krishnan Chuanyuan Chen Jie Kuai Qiqi Chen Chance Lamberth Shushu Chen Jiangyan Li Wenzhu Chen Yunfeng Li Yiwei Cheng Hui Li YuHan Chi Dan Li Felix Cedric Chung Jiayi Li Yan Cui Yu-Hsuan Lin Orkhan Dadashov Wen-Ting Lin Ning Ding Zhenghao Lin Jiangfeng Dong Xiamiao Lin Daniel Joseph Lisko Yanan Dong

### **KHOURY COLLEGE OF COMPUTER SCIENCES**

Master of Science in Computer Science

Meilin Liu	Kristine Nnemka Umeh
Yaqi Liu	Toan Cong Vang
Suying Liu	Matthew Voyta Vargas
Sheng Liu	Parthivi Varshney
Jieren Liu	Divit Vasu
Zhiyu Long	Shuwei Wang
Xiaowei Lu	Shu Yi Wang
Tianyu Lu	Siqi Wang
Misha Amit Mody	Yihong Wang
Xiaowei Ni	Liuying Wang
Jiayi Ning	Jiaqi Wang
Zexi Nong	Wanqing Wang
Chao Pan	Zhaoyang Wang
Wenyu Pan	Tingzhao Wang
Maria Piper	Mengru Wang
Guanying Qu	Yueyang Wu
Pragun Sharma	Qiuxuan Wu
Yuanyuan Shen	Maojie Xia
Xi Shen	Shujun Xiao
Chengchun Song	Jingting Xing
Bo Song	Minyi Xu
Suparna Srinivasan	Yuhe Yan
Jiameng Sun	Yan Yan
Tzu-Chi Tai	Luming Yang
Tianyu Tan	Xuejia Yang
Yu Tang	Wenshu Yang
Parshva Atul Timbadia	Zanyuan Yang
Jiawei Tong	Tianhao Yu

### **KHOURY COLLEGE OF COMPUTER SCIENCES**

### Master of Science in Computer Science

Boyuan Yu	Qiaoyan Zhao
Xiaohui Zhang	Huiming Zhou
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Qiangqiang Zhang	Taohan Zhu
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Jiandong Zhang	

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Summa cum laude	3.850 to 4.000
Magna cum laude	3.700 to 3.849
Cum laude	3.500 to 3.699

Gold cord worn around neck denotes honor student.

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