# Technical excellence. Whole-brain thinking. Highly interdisciplinary work.

Now in our fifth year of an ambitious growth initiative, we are in the process of hiring 20 tenure-track faculty members, more than doubling our faculty. We are driven to push the boundaries of the field with exceptional work in programming languages, machine learning, robotics, network security, computer science theory, artificial intelligence, computational imaging, human-computer interaction, high-performance computing, networking, algorithms, mechanism design, and personalized education.

## New Faculty

**V.S. Subrahmanian** joined as Walter P. Murphy Professor with a joint position in the Buffett Institute for Global Affairs. Most recently, he was a distinguished professor at Dartmouth College and is a leader in cybersecurity and AI.

## Core Tenure-track CS Faculty

**Emma Alexander** (*UC Berkeley*) bio-inspired, physics-based approach to artificial vision

**Xinyu Xing** (*Penn State*) software, systems, and AI security

## Faculty of Instruction

**Mohammed Alam** (*PhD Northwestern*) AI and machine learning

**Connor Bain** (*PhD Northwestern*) computing frameworks in K-12 STEM education

**Sruti Bhagavatula** (*PhD Carnegie Mellon*) security, privacy

**Zach Wood-Doughty** (*PhD Johns Hopkins*) natural language processing methods

**Huiling Hu** (*PhD University of Maryland*) data science, machine learning related to climate change

## By the Numbers

**Faculty:** 42 tenure track, 10 teaching track

**Undergraduate Students:** ~800 majors

**Graduate Students:** 130 PhD and 180 MS

**Enrollment:** 8,100

## Programs

We welcomed the first class in our new **MBAi program**, a joint degree at the intersection of business and technology offered by the Kellogg School of Management and the McCormick School of Engineering.

In collaboration with the Department of Industrial Engineering and Management Sciences, we launched a **data science and engineering minor** to teach practical knowledge fundamental to the data science lifecycle.

A **new certificate from the Human-Computer Interaction + Design Center** will help students build knowledge and skills in the design, evaluation, and implementation of interactive computing systems for human use.

## Diversity Initiatives

We organized a new **summer camp for high schoolers** from backgrounds underrepresented in CS.

As part of the **BRAID (Building, Recruiting, And Inclusion for Diversity) Initiative** we seek to increase participation from underrepresented groups in undergraduate CS programs by working to positively transform our classroom environments.

Our **DEI committee members supported over 80 Northwestern CS students** in the Grace Hopper Celebration of Women in Computing, and the Richard Tapia Celebration of Diversity in Computing.

## CS Chairs Conference

This summer, we held a **conference** with faculty from across the country to examine education, faculty, and programming issues faced by CS departments.

## CS+X Connections

Our **CS+X** interdisciplinary initiatives continue to flourish.

Our **Digital Marketing and Computer Science Workshop** brought together leaders from Adobe Research, Kellogg Marketing, and Computer Science to discuss the complex, interdisciplinary problems of today's (and tomorrow's) digital marketing landscape.

The **"AI and Its Impact" series** highlighted research underway with the aim of inspiring further AI research across the University.

## Awards

**Noshir Contractor** received the 2022 **SIMMEL Award** and the **International Communication Association Fellows Book Award**.

**Jason Hartline** received the **ACM SIGecom Test of Time Award**, the association's annual recognition of influential papers at the intersection of economics and computation.

**Josiah Hester** was named to the **Brilliant 10 by Popular Science**. He also received the 2021 **Most Promising Engineer or Scientist Award** from the American Indian Science and Engineering Society.

PhD student **Byungjin Jun** (advised by **Fabian Bustamante**) received a **Google PhD fellowship**.

**Samir Khuller** was named **EATCS Fellow by the European Association for Theoretical Computer Science**.

**Eleanor O'Rourke** and **Marcelo Worsley** received prestigious NSF CAREER awards.