

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

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 computer science education.

New Faculty

Core Tenure-track CS Faculty



Karan Ahuja
sensing and interaction
techniques



Manling Li
multimodal information extraction



Kate Smith
quantum computing

Faculty of Instruction



David Demeter
artificial intelligence



Anastasia Kurdia
novel pedagogic methods

By the Numbers

Faculty: 43 tenure track, 12 faculty of instruction, one clinical faculty member, one senior lecturer, and 24 affiliated faculty

Enrollment: 10,163 (AY 2022-23)

Undergraduate Students: 948 majors, 160 minors

Graduate Students: 155 PhD and 253 MS

MBAi: 43 students (Fall 2023 cohort)

MSAI: 44 students (Fall 2023 cohort)

Data Science and Engineering Minor
(joint with Industrial Engineering and Management Sciences):
178 students (Fall 2022 and 2023 cohorts)

CS+X Connections

CS+X Our interdisciplinary community explores diverse areas of scientific inquiry, including HCI, learning sciences, medicine, and statistics. Our faculty are leaders in the fields of [CS+Economics](#) and [CS+Law](#).

Research Institutes

In collaboration with the UL Research Institutes' Digital Safety Research Institute, the [Center for Advancing Safety of Machine Intelligence \(CASMI\)](#) is establishing best practices for the evaluation, design, and development of machine intelligence that is safe, equitable, and beneficial.

The [Institute for Data, Econometrics, Algorithms, and Learning \(IDEAL\)](#) received a five-year, \$10 million NSF Phase II award to advance the theoretical foundations of data science.

Diversity Initiatives

Northwestern CS and the YWCA Evanston/North Shore were awarded a **2023 Racial Equity and Community Partnership grant** to support the [YW Tech Lab](#) economic empowerment training program.

In 2023, we provided support for 40 Northwestern CS students to attend the **Grace Hopper Celebration of Women in Computing**, and 19 students to attend the **Richard Tapia Celebration of Diversity in Computing Conference**.

Undergraduate Program

The student-led [Tech Ethics Initiative](#) guided by **Avery Keare**, **Victoria C. Chávez**, and **Natalie Araujo Melo** aims to prioritize the ethical dimensions of computer science and to embed ethics throughout the Northwestern CS curriculum.

Our new [Research Track](#) is designed to provide second-year students majoring in computer science with a structured and mentored introduction to the research process.

The [Design, Technology, and Research \(DTR\) program](#) is a fast-paced, multiple-quarter course structured around self-directed student research projects.

Awards

The Northwestern CS community is [recognized](#) for their accomplishments in research, education, and mentorship.

Brenna Argall was inducted into the AIMBE College of Fellows.

Christos Dimoulas and **Xiao Wang** received NSF CAREER awards.

Amil Dravid ('23) was named a finalist in the CRA 2023 Outstanding Undergraduate Researcher Awards.

PhD students **Lily Ge** and **Mara Ulloa** were awarded NSF Graduate Research Fellowships.

Kristian Hammond was elected as a 2023 AAAI Fellow.

Samir Khuller has been elevated to an ACM Fellow and was elected to the CRA Board of Directors.

PhD students **David Krasowska** and **Kirill Nagaitsev** received DOE Computational Science Graduate Fellowships.

Sam Kriegman was named a Schmidt Futures AI2050 Early Career Fellow.

PhD student **Vaidehi Srinivas** won a Northwestern Presidential Fellowship.

Xiao Wang received a 2023 Google Research Scholar Program Award and a J.P. Morgan AI Faculty Research Award.

PhD student **Chenkai Weng** received a J.P. Morgan AI Research Fellowship.

Industry Partnerships

Through the generous support of research partners, including Adobe Research and Dolby Labs, our faculty members and students collaborate with industry experts on innovative technologies.