COMPUTER SCIENCE PROGRAMS 2021

Undergraduate

364 CS majors graduated in 2021

#1 major at Duke

53% of those graduating took CS courses

Graduate

85 enrolled in PhD in CS
60 enrolled in MS in CS
39 enrolled in MS in Economics & Computation

FACULTY AND RESEARCH

37 Primary Faculty
28 Secondary Faculty

$4.2M+ 2021 Research Expenditure

Research Areas cs.duke.edu/research

- Artificial Intelligence
- Computation + X
- Computer Science Education

- Data Science
- Systems
- Theoretical Computer Science

NEW COMPUTER SCIENCE FACULTY

Bhuwan Dhingra (2021) NLP
Brandon Fain (2020) Education
Matt Lentz (2021) Systems
Kartik Nayak (2019) Security
Michael Reiter (2021) Security
Ben Rossman (2020) Theory
Nicki Washington (2020) Education
Lisa Wills (2019) Architecture
Sam Wiseman (2021) NLP
Fan Zhang (2021) Security
Danyang Zhuo (2020) Systems
For more information about our faculty and their achievements, visit cs.duke.edu/people/faculty.

THE FACULTY

FACULTY BY THE NUMBERS

37 Primary Faculty

By track/rank:
- 16 Full Professors
- 7 Associate Professors
- 8 Assistant Professors
- 6 Prof. of the Practice & Lecturers

By gender:
- 28 Men
- 9 Women

FACULTY DISTINCTIONS

- 2 National Academy of Engineering (NAE) Members
- 9 Association for Computing Machinery (ACM) Fellows
- 5 Institute of Electrical and Electronics Engineers (IEEE) Fellows
- 2 American Association for the Advancement of Science (AAAS) Fellows
- 2 Association for the Advancement of Artificial Intelligence (AAAI) Fellows
- 7 Sloan Foundation Research Fellows
- 15 National Science Foundation (NSF) Career Awards

Professor Cynthia Rudin won the 2022 $1M Squirrel AI Award for Artificial Intelligence for the Benefit of Humanity from the Association for the Advancement of AI (AAAI). This award recognizes Rudin for her pioneering scientific work in the area of interpretable and transparent AI systems in real-world deployments, advocacy in highly sensitive areas, and serving as a role model.

Professor Robert Calderbank was selected as a 2021 SIAM Fellow, one of the highest honors of the Society for Industrial and Applied Mathematics. This distinction recognizes Calderbank’s deep contributions to information theory, in addition to his exemplary research and outstanding service to the community.
THE UNDERGRADUATE EXPERIENCE

PROGRAM FACTLETS

Graduated in 2021

Flexible Pathways:
- **Major concentrations** — AI/ML, Data Science, Software Systems
- **Interdepartmental majors** — Data Science + Math/Stats, Linguistics + CS, Computational Media
- **Interdepartmental minors** — CS, Computational Biology

Most popular double majors with CS:
- Elec. Comp. Eng., Math, Econ, Stats

Most popular minors to go with CS:
- Econ, Psychology, Math, Stats

Most popular majors with CS minor:
- Econ, Mech. Eng., Public Policy, Stats, Biology

CS Degrees Awarded by Year:

**Demographic Trends**

- African Diaspora / Black
- Asian
- Hispanic / Latinx
- Native American / Alaskan Native
- Native Hawaiian / Other Pacific Islander
- Not Indicated
- White

For more information, visit cs.duke.edu/undergrad
UNDERGRADUATE AWARDS 2019-2021

15 Graduation with Distinction Awards.

9 Computing Research Association (CRA) Awards for Undergraduate Research:
   6 Honorable Mentions: Rohith Kuditipudi, Jerry Liu, Liang Lyu, Zeyu Shen, Yikai Wu, Frederick Xu.
   5 Finalists: Rohith Kuditipudi, Runliang Li, Liang Lyu, Sachit Menon, Caroline Wang.
   1 Runner-Up Award: Norah Xinyu Tan.


1 Marshall Scholar: Yasa Baig.

1 Eisenhower Global Scholar: Swathi Ramprasad.

1 Schwarzman Scholar: Kevin Zheng.

BEYOND THE CLASSROOM

104 CS majors participated in 2021 Summer Plus Programs
   - CS+ research projects in the CS department
   - Code+ software development projects with Office of Information Technology
   - Data+ Interdisciplinary data science projects with the Rhodes Information Initiative at Duke

86 CS women in the Class of 2021 were in DTech
   - DTech (Duke Technology Scholars Program) empowers the next generation of diverse leaders
   - 400+ women participated in DTech since its founding in 2016

16 Student clubs and organizations include:
   - Women in Technology
   - HackDuke
   - Duke Applied Machine Learning
   - Catalyst
   - Duke BOW

All CS majors are welcome in the CS Student Union.

We're looking to train next-generation leaders who can really make their impact felt across society: visionary individuals who are energized by thinking about the broad implications of computing.

- Jun Yang, Duke Computer Science Chair

More at cs.duke.edu/undergrad/organizations
THE GRADUATE EXPERIENCE

GRADUATE ENROLLMENT 2021

Women
Men
PhD Students
Women
Men
Master's Students include:
MS in Computer Science (MSCS) + MS in Economics and Computation (MSEC).

GRADUATE DEMOGRAPHICS

For more information, visit cs.duke.edu/graduate
ADMISSIONS

PhD: 15.7% accepted out of 413 applicants
MSCS: 20.7% accepted out of 738 applicants
MSEC: 34.3% accepted out of 143 applicants

PhD STATISTICS

Completion Rate:
- 22% Received Master’s
- 71% Received PhDs
- 7% Other

Completion Time:
- Duke Median (2015-2020): 5.7 years
- US National Median: 5.8 years

RECENT GRADUATE FELLOWSHIPS

- NSF Graduate Research Fellowship: Vikram Aikat
- DOD NDSEG Fellowship: Barrett Ames
- Google Graduate Fellowship: Yuan Deng
- Facebook PhD Fellowship: David Pujol

ACADEMIC PLACEMENTS

Postdoctoral associates and PhDs who recently accepted faculty positions:

Michael Albert: UVA
Hsien-Chih Chang: Dartmouth
Yu Cheng: UI Chicago
Rupert Freeman: UVA
Xi He: U Waterloo
Seyed Zahedi: U Waterloo
Nathan Kell: Denison Univ.
Xiao Hu: U Waterloo
Amir Gilad: Hebrew Univ.
Chaofan Chen: U Maine
Tianyu Wang: Fudan Univ.
Marco Morucci: NYU
ACADEMIC PROGRAMS
Undergraduate  
   cs.duke.edu/undergraduate
Graduate  
   cs.duke.edu/graduate

RESEARCH AREAS
Artificial Intelligence  
   cs.duke.edu/research/artificialintelligence
Computation + X  
   cs.duke.edu/research/computationplusx
Computer Science Education  
   cs.duke.edu/research/compscieducation
Data Science  
   cs.duke.edu/research/datascience
Systems  
   cs.duke.edu/research/systems
Theoretical Computer Science  
   cs.duke.edu/research/theory-algorithms

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