

2023 DUKE UNIVERSITY



DEPARTMENT *of* COMPUTER SCIENCE **BY THE NUMBERS**



[CS.DUKE.EDU](https://cs.duke.edu)

COMPUTER SCIENCE PROGRAMS 2023

Undergraduate
432
CS majors
graduated in 2023

#1
major at Duke

67%
of those
graduating took
CS courses

Graduate
84 enrolled in **PhD** in CS
67 enrolled in **MS** in CS
51 enrolled in **MS** in Economics & Computation

FACULTY AND RESEARCH

43 Primary Faculty

30 Secondary Faculty

\$8.1M+

2022 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



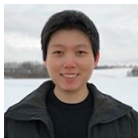
Pardis Emami-Naeini
(2022)
Security, HCI



Kate O'Hanlon
(2023)
Education



Jian Pei
(2022)
Data Science



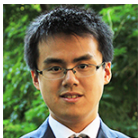
Tan Songdechakraiwt
(2023) *Education/
Data Science*



Alex Steiger
(2023) *Education/
Algorithms*



Yesenia Velasco
(2023)
Education



Anru Zhang
(2023)
Statistics



Danfeng Zhang
(2023) *Programming
Languages/Security*

THE FACULTY

For more information about our faculty and their achievements, visit cs.duke.edu/people/faculty.

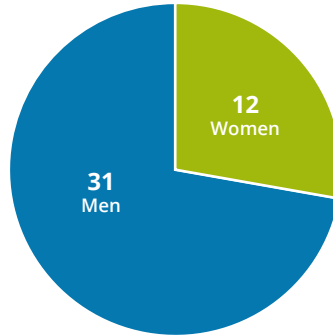
FACULTY BY THE NUMBERS

43 Primary Faculty

By track/rank:



By gender:



FACULTY DISTINCTIONS

- 1 National Academy of Engineering (NAE) Member
- 7 Association for Computing Machinery (ACM) Fellows
- 6 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
- 2 Guggenheim Fellows
- 7 Sloan Foundation Research Fellows
- 17 National Science Foundation (NSF) Career Awards



Duke CS Diversity Initiatives In the News

NC Governor honored Duke CS Professors **Nicki Washington** (L) and **Shaundra Daily** (R) as Black STEM leaders in Feb. 2022. They also received the Dean's Diversity Award in May 2022, and the NSF awarded their Alliance for Identity-Inclusive Computing Education (AiiCE) a new STEM education postdoctoral research fellowship grant in July 2022.



Professor of the Practice Susan Rodger received the SIGCSE 2023 Award for Outstanding Contribution to Computer Science Education.



Professor Robert Calderbank was elected to the American Academy of Arts and Sciences in 2022.

THE UNDERGRADUATE EXPERIENCE

For more information, visit cs.duke.edu/undergrad

PROGRAM FACTLETS

Graduated in 2023

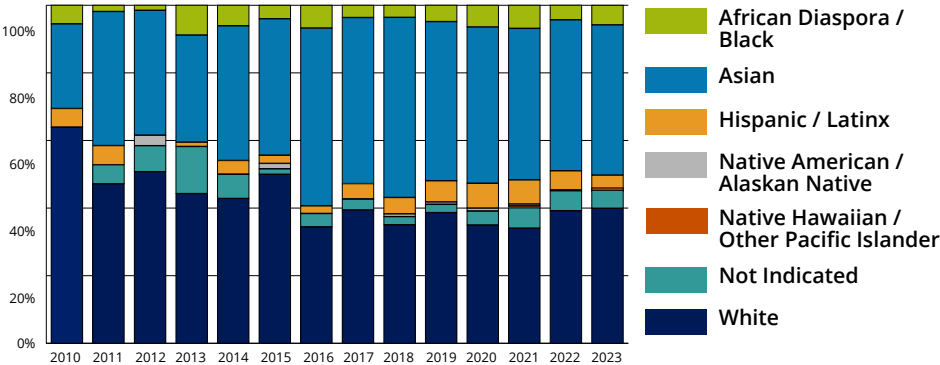
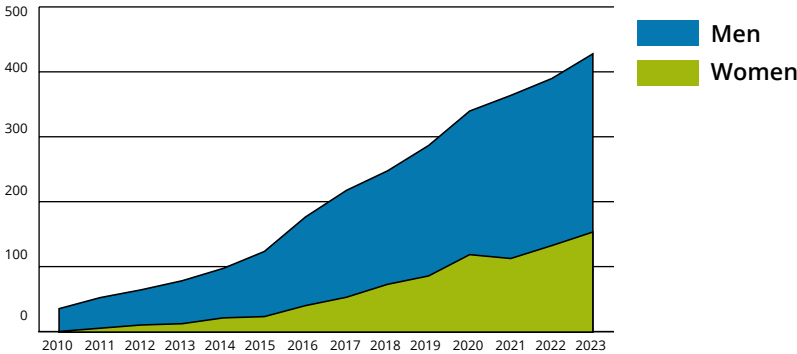
432 CS majors **153** CS minors

Flexible Pathways:

- **Major concentrations:** AI/ML, Data Science, Software Systems
- **Interdepartmental majors:** Data Science + Math/Stats, Linguistics + CS, Media
- **Minors:** CS, Comp Biology
- **MS in CS 4+1 Program:** MSCS in 5 yrs
- **Most popular double majors with CS:** ECE, IECP (Innovation & Entrepreneurship Cert), Statistics, Math, Economics.
- **Most popular minors to go with CS:** Biology, Econ, Neur, Mech. Eng.
- **Most popular majors with CS minor:** ECE, BME, Math, Econ, Statistics.

DEMOGRAPHIC TRENDS

CS Degrees Awarded by Year:



BEYOND THE CLASSROOM

81 CS majors participated in 2023 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

337 Women majoring in CS are currently DTech Members

- DTech (Duke Technology Scholars Program) empowers the next generation of diverse leaders
- 1,075 women participated in DTech since its founding in 2016

15 Student clubs and organizations include:

- Women in Technology
- HackDuke
- Duke Applied Machine Learning
- Catalyst
- Duke Association for Business Oriented Women (BOW)

More at cs.duke.edu/undergrad/organizations

All CS majors are welcome in the CS Student Union.

The more kinds of minds that can be brought to computer science — in terms of age and gender, background and experience — the better off we'll all be.

- Jian Pei, Duke Computer Science Chair



UNDERGRADUATE AWARDS 2022-2023

17 Graduation with Distinction Awards.

9 Computing Research Association (CRA) Awards for Undergraduate Research:

1 Runner-Up Award: Norah Xinyu Tan.

2 Finalists: Zeyu Shen, Rui Xin.

6 Honorable Mentions: William He, Zeyu Shen, Jerry Liu.

1 Knight-Hennessy Scholarship: Sydney Hunt.

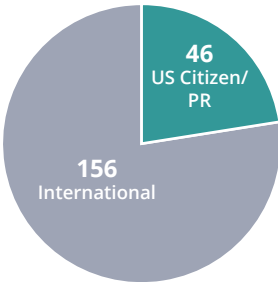
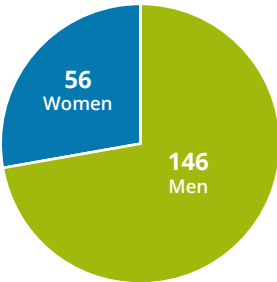
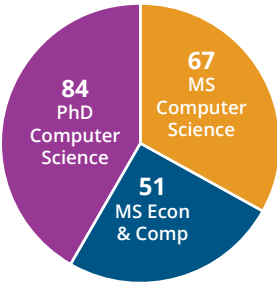
1 Marshall Scholar: Yasa Baig, also a Goldwater Scholar.

1 Rhodes Scholar: Qi Xuan Koo.

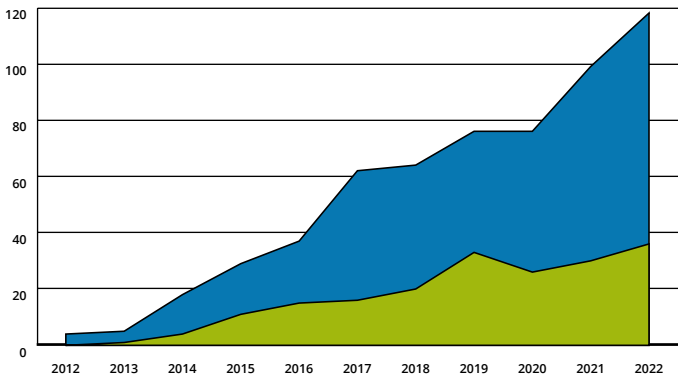
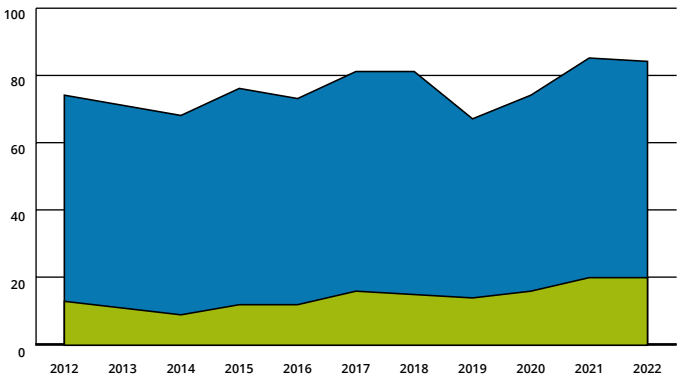
THE GRADUATE EXPERIENCE

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

GRADUATE ENROLLMENT 2022-2023



GRADUATE DEMOGRAPHICS

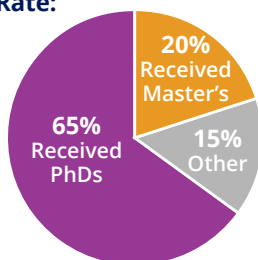


ADMISSIONS

PhD: 15.8% accepted out of 431 applicants
MSCS: 18.5% accepted out of 750 applicants
MSCS+1: 60.0% accepted out of 10 applicants
MSEC: 36.7% accepted out of 109 applicants

PhD STATISTICS

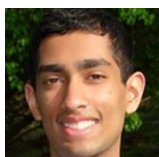
Completion Rate:



Completion Time:

- Duke Median (2017-2022): 5.7 years
- US National Median: 5.8 years

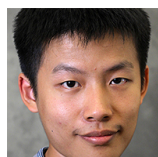
RECENT GRADUATE FELLOWSHIPS



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:



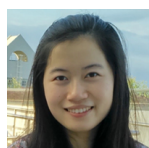
Johes Bater:
Tufts (2022)



Yu Cheng:
Brown (2022)



Amir Gilad:
Hebrew Univ. (2023)



Xiao Hu:
U Waterloo



Zhengjie Miao:
SFU (2023)



Marco Morucci:
NYU (2021)



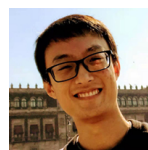
Stavros Sintos:
UIC (2022)



Kevin Sun:
UNC-CH (2023)



Chenghong Wang:
IU Bloomington (2023)



Tianyu Wang:
Fudan Univ (2021)

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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