DEPARTMENT of COMPUTER SCIENCE
BY THE NUMBERS

50 YEARS
COMPUTER SCIENCE

DUKE UNIVERSITY

CS.DUKE.EDU
Undergraduate

432 CS majors graduated in 2023

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 Songdechakraiwut (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:
- 18 Full Professors
- 10 Professors of the Practice, Lecturers, & Research Profs
- 8 Assistant Professors
- 7 Associate Professors

By gender:
- 31 Men
- 12 Women

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

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:

[Graph showing CS degrees awarded by year, including gender and racial demographics from 2010 to 2023.]
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)

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 enrollment for 2022-2023 includes:

- 84 PhD Computer Science
- 67 MS Computer Science
- 51 MS Econ & Comp
- 56 Women
- 146 Men
- 46 US Citizen/PR
- 156 International

Women: 146
Men: 146

Master’s students include: MS in Computer Science (MSCS) + MS in Economics and Computation (MSEC).

PhD Students

- Men
- Women

Master’s Students

- Men
- Women

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

<table>
<thead>
<tr>
<th>Program</th>
<th>Acceptance Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>15.8% accepted out of 431 applicants</td>
</tr>
<tr>
<td>MSCS</td>
<td>18.5% accepted out of 750 applicants</td>
</tr>
<tr>
<td>MSCS+1</td>
<td>60.0% accepted out of 10 applicants</td>
</tr>
<tr>
<td>MSEC</td>
<td>36.7% accepted out of 109 applicants</td>
</tr>
</tbody>
</table>

**PhD STATISTICS**

**Completion Rate:**
- 65% Received PhDs
- 20% Received Master’s
- 15% Other

**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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