Stanford



Christopher Gregg

Associate Professor (Teaching) of Computer Science

Curriculum Vitae available Online

Bio

BIO

Chris Gregg received his Ph.D. in Computer Engineering from the University of Virginia in 2012, has a Master's of Education from Harvard University (2002), and a BS in Electrical Engineering from Johns Hopkins University (1994). Prior to becoming a lecturer at Stanford, Chris was a lecturer in the computer science department at Tufts University, and prior to that he taught high school physics in Massachusetts and California for seven years. Chris was on active duty in the Navy for seven years, and remains as a Commander in the Navy Reserves in the Information Warfare / Cryptology community.

Chris's research interests include computer architecture (specifically, general purpose computing on GPUs) and the pedagogy of computer science teaching and instruction.

ACADEMIC APPOINTMENTS

- Associate Professor-Teaching, Computer Science

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Association of Computing Machinery (2009 - present)
- Member, Institute of Electrical and Electronics Engineers (1990 - present)

PROFESSIONAL EDUCATION

- Ph.D., University of Virginia , Computer Engineering (2012)
- M.Ed., Harvard University , Education (Physics) (2002)
- B.S., Johns Hopkins University , Electrical Engineering (1994)

Teaching

COURSES

2026-27

- Additional Topics in Teaching Computer Science: CS 198B (Aut, Win, Spr)
- Computer Systems from the Ground Up: CS 107E (Spr)
- Introduction to Probability for Computer Scientists: CS 109 (Aut)
- Programming Abstractions (Experimental): CS 106BEX (Win)
- Teaching Computer Science: CS 198 (Aut, Win, Spr)

2025-26

- Additional Topics in Teaching Computer Science: CS 198B (Aut, Win, Spr)
- Introduction to Probability for Computer Scientists: CS 109 (Spr, Sum)
- Programming Abstractions: CS 106B (Aut)
- Standard C++ Programming Laboratory: CS 106L (Aut)
- Teaching Computer Science: CS 198 (Aut, Win, Spr)

2024-25

- Additional Topics in Teaching Computer Science: CS 198B (Aut, Win, Spr)
- Computer Systems from the Ground Up: CS 107E (Win)
- Programming Abstractions: CS 106B (Aut)
- Programming Methodology: CS 106A (Spr)
- Teaching Computer Science: CS 198 (Aut, Win, Spr)

2023-24

- Additional Topics in Teaching Computer Science: CS 198B (Aut, Win, Spr)
- Computer Organization and Systems: CS 107 (Win)
- Computer Systems from the Ground Up: CS 107E (Spr)
- Computers, Ethics, and Public Policy: CS 181 (Spr)
- Computers, Ethics, and Public Policy (WIM): CS 181W (Spr)
- Seminar on Teaching Introductory Computer Science: CS 298 (Aut)
- Teaching Computer Science: CS 198 (Aut, Win, Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Daniela Ganelin

Orals Chair

Zach Hulcher

Master's Program Advisor

Isabel Berny, Rosman Carino, Boom Iamphongsai, Chantal Le, Yuliia Murakami, Varsha Saravanan, Rubina Shrestha, Mario Sumali, Chloe Trujillo

Doctoral (Program)

Diana Popescu

Publications

PUBLICATIONS

- **Datacenter-Scale Analysis and Optimization of GPU Machine Learning Workloads** *IEEE MICRO*
  Wesolowski, L., Acun, B., Andrei, V., Aziz, A., Dankel, G., Gregg, C., Meng, X., Meurillon, C., Sheahan, D., Tian, L., Yang, J., Yu, P., Hazelwood, et al
  2021; 41 (5): 101-112
- **How Do We Provide Effective Student Advising and Mentoring During Record Growth?**
  Gregg, C., Hescott, B., Assoc Comp Machinery
  ASSOC COMPUTING MACHINERY.2018: 1069
- **How Do You Teach Debugging?: Resources and Strategies for Better Student Debugging** *Special Interest Group on Computer Science Education (SIGCSE)*

Lewis, C. M., Gregg, C.
2016

- **Working with Undergraduate Teaching Assistants: Best Practices and Lessons Learned** *Special Interest Group on Computer Science Education (SIGCSE)*
  Gregg, C., Lewis, C. M.
  2015

- **Fine-Grained Resource Sharing for Concurrent GPGPU Kernels** *4th USENIX Workshop on Hot Topics in Parallelism (HOTPAR)*
  Gregg, C., Dorn, J., Skadron, K., Hazelwood, K.
  2012