

# Chris Gregg

Phone: 857-234-0211

Email: [cgregg@stanford.edu](mailto:cgregg@stanford.edu)

Homepage: <https://web.stanford.edu/~cgregg>

## Education:

Ph.D., Computer Engineering, University of Virginia, 2012.

Advisor: Kim Hazelwood

Dissertation: *A Data and Contention Aware Approach to Dynamic Scheduling for Heterogeneous Processors.*

M.Eng., Computer Engineering, University of Virginia, 2010.

M.Ed, Education, Harvard University, 2002.

Program: Teaching and Curriculum, concentration in secondary school physics.

B.S., Electrical Engineering, Johns Hopkins University, 1994.

## Employment Record:

Stanford University, Lecturer, Computer Science. Fall 2016-Present.

Reach University, Consultant, nascent Bachelor of Arts in Liberal Studies program, Technology and Information Systems. Spring 2016 – Present

Northeastern University, Consultant, Align M.S. C.S. Program. Spring 2019 – Present.

Facebook, Contractor, Artificial Intelligence Infrastructure team, Software Engineering. Summer 2019.

United States Navy Reserves, Commander, Information Warfare. 2004 – 2018 (Part Time).

Tufts University, Lecturer, Computer Science. Winter 2014-Summer 2016.

University of Maryland, University College, Djibouti, Africa, Adjunct Assistant Professor, Science and Mathematics. Fall 2012 – Fall 2013.

Adjunct Lecturer, Computer Architecture, University of Virginia. Fall 2012.

Teacher, University of Virginia Summer Enrichment Program, University of Virginia, Summer 2011 / Winter 2011.

Advanced Micro Devices, Intern. Summer 2010.

Teacher, Brookline High School, Brookline, MA, Physics and Computer Science.  
Fall 2002 – Summer 2004, Fall 2005 – Summer 2008.

Teacher, Pacific Collegiate School, Santa Cruz, CA, Physics. Fall 2004 – Summer 2005.

Teaching Fellow, Harvard Graduate School of Education, Literacy and Learning.  
Fall 2003.

United States Navy Active Duty, Lieutenant, Cryptologic Officer. 1994 – 2001.

## **Professional Activities:**

Member, Association for Computing Machinery, 2008 – Present.

Organizing Committee, SIGCSE, Student Volunteers Chair, 2020/2022.

## **University and Departmental Service:**

M.S. Program Director, Fall 2021 – Present.

CS Department Executive Committee, Fall 2020 – Present

M.S. Admissions Committee, 2017-2019.

Curriculum Committee, 2018-2019

## **Awards and Honors:**

Stanford University:

Professor of the Year, Stanford Society of Latinx Engineers, 2021

Tau Beta Pi Teaching Honor Roll, 2017-18, 2018-19, 2020-21

University of Virginia:

All-University Graduate Teaching Award in Math, Science, and Engineering, 2011-2012

Computer Science Outstanding Teaching Award, 2011-2012.

Pacific Collegiate School

Teacher of the Year, 2004-2005

## Publications:

### Refereed journal publications

**Note:** In computer architecture and CS education (SIGCSE), refereed conferences are the primary publication venues, and the convention is that authors' names are listed in the order of primary work on a submission.

- J1 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, K. "Datacenter-Scale Analysis and Optimization of GPU Machine Learning Workloads," in *IEEE Micro*, vol. 41, no. 5, pp. 101-112, 1 Sept.-Oct. 2021, doi: 10.1109/MM.2021.3097287.

### Refereed conference / symposia publications

- C1 Reckinger, S. M., & **Gregg, C.**, & Hughes, B. E. (2021, July), *Social-belonging Intervention in a Computer Science Systems Course* Paper presented at 2021 ASEE Virtual Annual Conference Content Access, Virtual Conference.  
<https://peer.asee.org/37719>
- C2 Piech, C., Gregg, C. "BlueBook: A Computerized Replacement for Paper Tests in Computer Science," Proceedings of the 48th **SIGCSE** Technical Symposium on Computer Science Education. Baltimore, MD, February 2018.
- C3 **Gregg, C.**, Duvall, R, Wasynczuk, K. "A Modern Wearable Devices Course for Computer Science Undergraduates," Proceedings of the 47th **SIGCSE** Technical Symposium on Computer Science Education. Seattle, WA, March 2017.
- C4 **Gregg, C.**, Tychonievich, L., Hazelwood, K., Cohoon, J. "Parallel Programming in Elementary School," Proceedings of the 42nd **SIGCSE** Technical Symposium on Computer Science Education. Raleigh, NC, February 2012.
- C5 **Gregg, C.**, Dorn, J., Hazelwood, K., Skadron, K. (2012). Fine-Grained Resource Sharing for Concurrent GPGPU Kernels. In 4th USENIX Workshop on Hot Topics in Parallelism (**HotPar** 12).
- C6 **Gregg, C.**, Boyer, M., Hazelwood, K., Skadron, K. "Dynamic Heterogeneous Scheduling Decisions Using Historical Runtime Data," Proceedings of the 2nd Workshop on Applications for Multi-and Many-Core Processors. San Jose, CA, June 2011.
- C7 Mistry, P., Ubal, R., Kaeli, D., Rubin, N., **Gregg, C.** "Developing Portable Profiling and Performance Analysis Tools for Heterogeneous Applications." AMD Fusion Developer Summit 2011, Bellevue, WA, June, 2011.
- C8 **Gregg, C.**, Hazelwood, K. "Where Is the Data? Why You Cannot Debate CPU vs. GPU Performance Without the Answer," International Symposium on Performance Analysis of Systems and Software (**ISPASS**). Austin, TX. April 2011.

- C9 Mistry, P., **Gregg, C.**, Rubin, N., Kaeli, D., Hazelwood, K. "Analyzing Program Flow within a Many-Kernel OpenCL Application," Fourth Workshop on General Purpose Processing on Graphics Processing Units (GPGPU-4). Newport Beach, CA. March, 2011.
- C10 **Gregg, C.**, Brantley, J., Hazelwood, K. "Contention-Aware Scheduling of Parallel Code for Heterogeneous Systems," 2nd USENIX Workshop on Hot Topics in Parallelism (HotPar'10). June 2010.
- C11 Guevara, M., **Gregg, C.**, Hazelwood, K., Skadron, K. "Enabling Task Parallelism in the CUDA Scheduler," in Programming Models and Emerging Architectures Workshop (Parallel Architectures and Compilation Techniques Conference, 2009).

### Non-refereed Conference/Symposia Proceedings

- C12 **Gregg, C.**, Strange, L. "Teaching Track Faculty in Computer Science", Birds of a Feather, 49th **SIGCSE** Technical Symposium on Computer Science Education. Minneapolis, MN, February 2019.
- C13 **Gregg, C.**, Sherriff, M. "Teaching Track Faculty in Computer Science", Birds of a Feather, 48th **SIGCSE** Technical Symposium on Computer Science Education. Baltimore, MD, February 2018.
- C14 **Gregg, C.**, Hescott, B. "How Do We Provide Effective Student Advising and Mentoring During Record Growth?", Birds of a Feather, 48th **SIGCSE** Technical Symposium on Computer Science Education. Baltimore, MD, February 2018.
- C15 **Gregg, C.**, Sherriff, M., Lupoli, S. "Teaching Track Faculty in Computer Science", Birds of a Feather, 47th **SIGCSE** Technical Symposium on Computer Science Education. Seattle, WA, March 2017.
- C16 **Gregg, C.**, Lewis, C. "How Do You Teach Debugging? Resources and Strategies for Better Student Debugging.", Birds of a Feather, 46th **SIGCSE** Technical Symposium on Computer Science Education. Memphis, TN, March 2016
- C17 **Gregg, C.**, Lewis, C. "Working with Undergraduate Teaching Assistants: Best Practices and Lessons Learned", Birds of a Feather, 45th **SIGCSE** Technical Symposium on Computer Science Education. Kansas City, MO, March 2015.

### Books in Print

**Gregg, C.** *Your First Year Teaching Computer Science: A Practical Guide to Success for New Computer Science Teachers.* Alinea Learning, February, 2021.