

Austin Reilley Benson

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Research Interests

- Parallel and high-performance computing with scientific applications
- Numerical linear algebra and large-scale matrix computations with data mining applications

Education

- Stanford University
 - Ph.D. Computational and Mathematical Engineering Expected June 2017
 - M.S. Computational and Mathematical Engineering Expected June 2014
- University of California, Berkeley
 - B.S. Computer Science and Engineering May 2012
 - B.A. Applied Mathematics (algorithms emphasis) May 2012

Honors and Awards

- Stanford Graduate Fellowship, 2012
- Phi Beta Kappa, 2012
- Eta Kappa Nu, 2011
- Tau Beta Pi, 2010

Research and Work Experience

- **Google, Inc.** May 2012-August 2012
Software Engineering Intern, Google Chrome Team
 - Continuing support for nacl-mounts
- **Google, Inc.** May 2011-August 2011
Software Engineering Intern, Google Chrome Team
 - Implemented nacl-mounts library, a pluggable user-space file system for Chrome's Native Client
- **University of California, Berkeley** February 2011-May 2012
Undergraduate Researcher
Advisor: Professor James Demmel
 - Researching parallel algorithms for numerical linear algebra in cloud computing environments
- **Domestic Nuclear Threat Security Initiative** June 2010-Present
Undergraduate Researcher and Software Engineer
 - Developing a parallel software framework for real-time nuclear detection

Skills

- Languages: (Proficient) C, C++, Java, Python, Matlab, bash; (Experience) Perl, JavaScript
- Misc. Computing Tools: Apache Hadoop, Google App Engine, Qt, L^AT_EX, CUDA, OpenMP, MPI, git, svn
- Operating Systems: OS X, Linux