Austin Reilley Benson

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http://arbenson.github.com Berkeley, CA

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. Electrical Engineering and Computer Sciences — 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
  - Implemented novel sandbox for Native Client to boost performance
- **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
  - Researched parallel algorithms for numerical linear algebra in MapReduce architectures
- **Domestic Nuclear Threat Security Initiative** June 2010-June 2012
  Undergraduate Researcher and Software Engineer
  - Developed a parallel software framework for real-time nuclear detection
  - Led open source efforts: software available at https://github.com/bearing/grif

Skills

- Languages: C/C++, Java, Python, Matlab, bash, x86
- Computing Tools: Apache Hadoop, Google App Engine, Qt, LaTeX , CUDA, OpenMP, MPI, git, svn
- Operating Systems: OS X, Linux