

Sean Gerrish

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Education:

- 2008-Present: PhD in Computer Science (Machine Learning) from Princeton University; degree expected September 2012; 3.81 GPA (see Princeton's [grade deflation policy](#))
- 2004: B.S. with High Honors in Mathematics, University of Michigan; Physics minor; 3.84 GPA
- 1998-2000: Dual enrolled at Delta College for math courses; 4.0 GPA

Work Experience:

- September 2008-Present: **Graduate Research Assistant**, statistical machine learning group in the Princeton CS department. Developed statistical models for gleaning latent information from text and social science datasets.
- June 2009-August 2009: **Advanced Technologies Research Intern, JSTOR, Inc.** Developed search engine prototypes and Web interfaces for JSTOR using probabilistic topic models.
- January 2005-August 2008: **Senior Software Engineer, Google, Inc.**
 - **Technical lead, Keyword Spam (Ads Quality)**. Led a small, data-driven engineering team to improve the quality of spammy ads shown on Google.com (November 2007-August 2008).
 - **Decision Support**. Worked with a quantitatively-focused team of engineers and quantitative analysts to perform analyses and build data tools for groups like finance, legal, and Ads.
 - **Landing Page Quality (Ads Quality)**. Wrote software infrastructure to serve scores for hundreds of millions of ads per day. Organized weekly deep-dive talks.
 - **Conducted over 50 engineering interviews**, served regularly on a hiring committee, and officially mentored two new engineers and one statistician.
- June 2001-January 2005: Various student research roles.
 - Programmer and directed research student, **Computational Linguistics and Information Retrieval** group. Research area: lexical networks and simulation of WWW network growth.
 - REU **combinatorics** research student.
 - **Engineering research assistant** for a reconfigurable factory testbed.
 - Student technician for CERN's ATLAS particle detector.

Teaching:

- August 2003-April 2004: **Math Tutor**, U. Michigan MathLab. Tutored courses include Probability, Honors Calculus I-III, Linear Algebra, and Abstract Algebra
- Teaching Assistant, **Interacting with Data** (Princeton COS424) (included giving an R tutorial)
- Teaching Assistant, Computers in Our World (Princeton COS109)
- Grader, Honors Introduction to Point-Set Topology (U. Michigan Math 590)
- Lunch presentation at Google on tips and tools for working with large-scale datasets

Computers:

- Languages and software: **C++**, **Python**, **R**, SVN, Perforce, MySQL, MapReduce
- Operating Systems: Unix/Linux (for development), Windows, Mac OS X

Honors and Awards:

2010: Facebook Fellowship finalist (for the machine learning PhD fellowship)
2009: Scholarship to the Cambridge University Machine Learning Summer School
2008, 2009: Honorable Mention, NSF Graduate Research Fellowship
2007: Nominated for and participated in Google's Edge leadership training
2006: Google EMG Award (awarded to outstanding engineering groups)
2004: Outstanding Achievement in Mathematics Award by U. Michigan Mathematics department
1996-2000: Placed in various state and regional high school math competitions; offered full-ride