

# Matthew Beaumont-Gay

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- Education** [University of California at Los Angeles](#) Sep 2005–present  
Master of Science in Computer Science, December 2007  
Ph.D. in Computer Science, in progress  
Advisor: Dr. Peter Reiher  
Cumulative GPA: 3.85
- [Harvey Mudd College](#) Sep 2001–May 2005  
Bachelor of Science in Computer Science, May 2005  
Cumulative GPA: 3.25  
In-Major GPA: 3.59
- Graduate Coursework:** Computer Security, Parallel Programming, Network Security, Cryptography, Advanced Networks, Advanced Operating Systems, Internet Architecture and Protocols, Wireless and Mobile Networking, Experimental Methodology for Computer Systems, Static Program Analysis, Type Systems, Parallel Languages
- Computer Science Clinic: Cryptek, Inc.** Sep 2003–May 2004  
Developed software to allow large-scale testing of Cryptek’s Network Security Controller product. Project involved using IPSec protocols and developing a scalable, highly concurrent network application. Member of a 4-person team.
- Publications** Matt Beaumont-Gay. “A Comparison of SYN Flood Detection Algorithms.” In *Proc. Int’l. Conf. on Internet Monitoring and Protection*, July 2007.
- Matt Beaumont-Gay, Kevin Eustice, and Peter Reiher. “Information Protection via Environmental Data Tethers.” In *Proc. New Security Paradigms Workshop*, November 2007.
- Academic Honors** [Harvey Mudd College CS Departmental Honors](#) 2005  
[Harvey Mudd College Dean’s List](#) Fall 2003, Spring 2004  
[Harvey S. Mudd Merit Scholar](#) 2001–2005
- Employment** [Google](#) Apr 2009–present  
*Software Engineer in Test*  
Maintained continuous integration infrastructure for engineering tools teams. Designed and implemented usage logging system for engineering tools. Helped build analytics framework for engineering tools usage data.
- [Google](#) Jun–Sep 2008  
*Software engineering intern*  
Designed and implemented a path discovery tool for data center networks.
- [Google](#) Jun–Sep 2007  
*Software engineering intern*  
Designed and implemented a tool to analyze the impact of link failures in data center networks.
- [Canon Development Americas](#) May–Aug 2005  
*Software engineering intern*

Developed a tool for performing man-in-the-middle attacks on SSL connections. Researched Web Service security protocols, including XKMS and WS-SecureConversation.

### Google

*Software engineering intern*

Jun–Aug 2004

Assisted a full-time software engineer with C++ language standards-compliance changes across a large part of the company’s codebase. Helped develop automated process for building and packaging distributed cross-compiler for use at satellite offices.

### Harvey Mudd College Computer Science Department

*Junior system administrator*

Feb–May 2004

Helped with user support for department-run systems. Aided senior staff with system administration and maintenance, including software package management and assorted troubleshooting.

### The Aerospace Corporation

*Information security research assistant*

Jun 2002–Jun 2004

Implemented or helped implement several information security research projects, in areas including intrusion response, multi-level access to security-labeled data, and automated network security management.

### Activities

**UCLA Engineering Grad. Student Assn. Vice President—External**

Fall 2007–present

**UCLA Rock Wall Volunteer Staff**

Summer 2006–present

### Skills

**Programming Languages:** Fluent in C, C++, Python, and UNIX shell. Some knowledge of Java, Perl, SML, and Objective-C.

**Networking:** Familiarity with IP, common transport-layer protocols, and many application-layer protocols.

**System Administration:** Mac OS X, FreeBSD, various desktop Linux distributions.

**References available upon request.**