

# Sam Burnett

## Curriculum Vitæ

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## Research Interests

I am passionate about guaranteeing the privacy, security and freedom of communication on the Internet. I am investigating how social networks and user-generated Web content can be used to achieve these goals.

## Education

2008–present **PhD in Computer Science**, *Georgia Institute of Technology*, Atlanta, GA.

Adviser: Nick Feamster

GPA: 4.0

2004–2008 **BS in Computer Science**, *Carnegie Mellon University*, Pittsburgh, PA.

Thesis: *Combining Wireless Network Emulation and Simulation*

Adviser: Peter Steenkiste

GPA: 3.54

## Experience

Summer 2009 **Research Intern**, *Intel Research*, Seattle, WA.

- Quantifying how personal information is leaked when using wireless networks
- Will be conducting three-week user study

2008–present **Graduate Research Assistant**, *Networking Group, Georgia Tech*, Atlanta, GA.

- Designed a system that evades Internet censorship using user-generated media
- Evaluated the performance and efficiency of this system on Flickr

2007–2008 **Undergraduate Researcher**, *Carnegie Mellon University*, Pittsburgh, PA.

- Researched techniques for combining wireless network simulation and emulation
- Implemented and evaluated hybrid emulated and simulator using Emulab

2006–2008 **Undergraduate Course Assistant**, *Carnegie Mellon University*, Pittsburgh, PA.

- Assisted over 400 introductory Computer Science students in 8 semesters
- Authored and graded class assignments and examinations
- Prepared and taught four semesters of recitations and several full lectures

Summer 2006 **Undergraduate Researcher**, *Florida International University*, Miami, FL.

- Implemented and evaluated a prototype self-optimizing file system
- Awarded funding through an NSF Research Experience for Undergraduates grant

## Academic Projects

Spring 2008 Implemented a multi-stage, type-directed **ML compiler**

- Spring 2008 Wrote a full-featured **Web application** using Servlets and Scala
- Fall 2007 Implemented and tested a **BitTorrent client** with congestion control
- Fall 2007 Authored an **IRC client and server**
- Fall 2006 Wrote a UNIX-style preemptible **operating system kernel**
- Spring 2006 Implemented a filtering **proxy server** for minimizing bandwidth according to user browsing habits

## Computer skills

|            |                                 |           |                             |
|------------|---------------------------------|-----------|-----------------------------|
| OS         | Linux, Unix, Mac OS X, Windows  | libraries | POSIX, Servlets, Java Swing |
| languages  | Java, C/C++, ML, Haskell, Scala | scripting | Python, Shell, JavaScript   |
| scientific | LaTeX, gnuplot, pylab           |           |                             |

## Publications

Medha Bhadkamkar, Jorge Guerra, Luis Useche, Sam Burnett, Jason Liptak, Raju Rangaswami, and Vagelis Hristidis. *BORG: Block-reORGanization for Self-Optimizing Storage Systems*. File and Storage Technologies (FAST), February 2009.

## Posters

Sam Burnett, Nick Feamster and Santosh Vempala. *Defeating Online Censorship with Collage*. Networked Systems Design and Implementation (NSDI), April 2009.

## Talks

Sam Burnett, Nick Feamster and Santosh Vempala. *Using User-Generated Content to Defeat Censorship*. University of Washington, July 30, 2009.

## Theses

Sam Burnett. *Combining Wireless Network Simulation and Emulation*. Undergraduate Thesis, Carnegie Mellon University, May 2008.