

# Rick Wash

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## Research Interests

Understanding and designing software systems that influence the incentives people encounter in using these system, particularly for information security and social computing systems.

## Education

PhD Student, School of Information, *University of Michigan*, 2005-present  
Masters of Science, Computer Science, *University of Michigan*, 2005  
Bachelors of Science, Computer Science, *Case Western Reserve University*, 2002

## Fellowships, Research Grants, and Major Awards

National Science Foundation IGERT Fellowship, 2002-2004

National Science Foundation, “CT-ER: Incentive Centered Technology Design for Home User Security.” CNS 0716196, Jeffrey MacKie-Mason PI. 2007-2009. Budget: \$200,000. Unofficial co-PI

*Gary M. Olson Outstanding PhD Student Award.* School of Information, University of Michigan. 2008

## Journal Articles

Theodore Loder, Marshall van Alstyne, and Rick Wash. “An Economic Response to Unsolicited Communications.” *Advances in Economic Analysis and Policy*, vol. 6, no. 1 (2006). <http://www.bepress.com/bejeap/advances/vol6/iss1/art2>.

## Conference Proceedings

Emilee Rader and Rick Wash. “Influences on Tag Choices in del.icio.us.” In *ACM Conference on Computer Supported Cooperative Work (CSCW)* (2008).

Rick Wash and Jeffrey MacKie-Mason. “Incentive-Centered Design for Information Security.” In *International Conference on Electronic Commerce (ICEC)* (2007).

Rick Wash and Emilee Rader. “Public Bookmarks and Private Benefits: An Analysis of Incentives in Social Computing.” In *American Society for Information Science and Technology (ASIS&T) Annual Meeting* (2007).

Rick Wash, Libby Hemphill, and Paul Resnick. “Design Decisions in the Ride-Now Project.” In *ACM Conference on Supporting Group Work (GROUP)* (2005).

Theodore Loder, Marshall Van Alstyne, and Rick Wash. “An Economic Solution to the Spam Problem.” In *ACM Conference on Electronic Commerce (EC)* (2004).

Jose Nazario, Jeremy Anderson, Rick Wash, and Chris Connelly. “The Future of Internet Worms.” In *Blackhat Briefings* (2001).

## Refereed Workshop Presentations

Rick Wash. “Incentive Design for Home Computer Security.” In *iConference, Doctoral Colloquium* (2008a).

Rick Wash. “Mental Models of Home Computer Security.” (July 2008b). SOUPS, The Symposium on Usable Privacy and Security, Poster Session.

Rick Wash and Jeff MacKie-Mason. “A Social Mechanism for Home Computer Security.” (December 2008a). Workshop on Information Systems and Economics (WISE).

Rick Wash and Jeffrey K. MacKie-Mason. “Incentive Design for Home Computer Security.” (2008b). Presented at iConference 2008 Poster Session.

Rick Wash and Emilee Rader. “Understanding del.icio.us Tag Choice using Simulations.” In *iConference* (2008).

Rick Wash. “Incentive Design for Home Computer Security.” In *ACM SIGCHI Conference on Computer-Human Interaction, Doctoral Consortium* (2007).

Emilee Rader and Rick Wash. “Tagging with del.icio.us: Social or Selfish?” (Nov. 2006). Presented at Computer Support Cooperative Work (CSCW) 06 Poster Session.

Rick Wash and Jeffrey MacKie-Mason. “Incentive Centered Design and Information Security.” (Jul. 2006). Presented at the First Workshop on Hot Topics in Security (HotSec 06).

Thede Loder, Marshall van Alstyne, and Rick Wash. “An Economic Solution to the Spam Problem.” (Jan. 2004a). Presented at the MIT Spam Conference.

Thede Loder, Marshall van Alstyne, and Rick Wash. “An Economic Response to Unsolicited Communications.” (Dec. 2004b). Presented at the Workshop on Information Systems and Economics (WISE).

## Working Papers

Rick Wash. “Content Provision under Digital Rights Management.” (Dec. 2005).

Rick Wash. “Lecture Notes on Stream Ciphers and RC4.” (Sep. 2001). Case Western Reserve University.

## Invited Talks

Rick Wash and Jeffrey MacKie-Mason. “Incentive-Centered Design for Information Security.” In *DIMACS Workshop on Information Security Economics* (2007).

Rick Wash. “The Economics of Malevolence in Cyberspace.” (Mar. 2005). Invited Talk at Case Western Reserve University.

Rick Wash. “The Security of Trusted Computing.” (February 2004). Invited Talk at Case Western Reserve University.

Rick Wash. “The Digital Millenium Copyright Act.” (February 2002). Given at the CWRU Chapter of the ACM.

## Other Talks

Rick Wash and Emilee Rader. “Collaborative Filtering With Del.icio.us.” (May 2006a). Presented at the STIET Spring 2006 Research Workshop.

Rick Wash and Emilee Rader. “Collaborative Filtering With Del.icio.us.” (Feb. 2006b). Invited Talk in Yan Chen’s Winter 2006 Public Goods class.

Rick Wash. “Valuing Security Products and Patches.” (June 2004a). Presented at the Second STIET Workshop.

Rick Wash. “Vulnerabilities and Adversaries in Security.” (October 2004b). Presented at the Third STIET Workshop.

Rick Wash. “Applications of Trusted Computing.” (October 2003). Presented at the First STIET Workshop.

## Teaching Experience

- Co-supervisor, Undergraduate Summer Research Intern. Rachel Lipson. NSF REU, Summer 2008
- Facilitator, “Getting Started: GSIs Teaching Graduate Students.” GSI Teaching Orientation, University of Michigan. Fall 2007, Winter 2008, and Fall 2008
- Graduate Student Instructor: *SI 540 Understanding Networked Computing*, School of Information, University of Michigan. Fall 2006.
- Graduate Student Instructor: *SI 502 Choice and Decision Making*, School of Information, University of Michigan. Winter 2006.
- Graduate Student Instructor: *EECS 381 Advanced Object Oriented Programming*, Electrical Engineering and Computer Science, University of Michigan. Fall 2004.
- Teaching Assistant: *ECES 381 Intro to Operating Systems*, Computer Engineering and Science, Case Western Reserve University. Spring 2001.
- Teaching Assistant: *ENGR 101 Intro to Computer Science*, College of Engineering, Case Western Reserve University. Fall 1999.

## Service

I was an external reviewer for *Journal of Electronic Commerce*, *ICIS 2006*, *ACM E-Commerce 2007 & 2008*, *CHI 2008 & 2009*, *iConference 2008* and *CSCW 2008*.

I was Student Volunteer Coordinator for *ACM E-Commerce 2006*.

## Work Experience

- **Digital Labs.** *Research Intern.* Summer 2001. Developed a research prototype intrusion detection system.
- **Microsoft.** *Software Development Engineer in Test.* Summer 1999 and Summer 2000. Developed automated tests for Microsoft Commerce Server. Developed an automated stress testing system.

## In The News

- *Wall Street Journal* 1/15/04. Article about my anti-spam research.
- *Metromode* “Defending the Net.” by Tanya Muzumdar. 3/6/2008 Article about my security research – <http://www.metromodemedia.com/features/TheNet0058.a>
- *Misc* My security research was featured research in announcing the STIET (NSF IGERT) renewal grant. [http://www.umich.edu/~urecord/0708/Oct15\\_07/23.shtml](http://www.umich.edu/~urecord/0708/Oct15_07/23.shtml) and <http://stiet.cms.si.umich.edu/sites/stiet.cms.si.umich.edu/files/DetroitFr>
- *STIET Newsletter* Fall 2008 – Article about my dissertation research and the the NSF grant that supports it. <http://stiet.cms.si.umich.edu/sites/stiet.cms.si>