

Rick Wash

Visiting Assistant Professor

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Research Interests

Understanding and designing software systems that influence user behavior, particularly for information security and social computing / social media systems.

Appointments

Visiting Assistant Professor. [Department of Telecommunications, Information Studies, and Media](#), Michigan State University. 2009-2010

Education

PhD, School of Information, *University of Michigan*, 2009
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, "CT-ER: Incentive Centered Technology Design for Home User Security." CNS 0716196, Jeffrey MacKie-Mason PI. 2007-2009. Budget: \$200,000.
Unofficial co-PI
National Science Foundation IGERT Fellowship, 2002-2004
Gary M. Olson Outstanding PhD Student Award. School of Information, University of Michigan. 2008

Dissertation

Motivating Contributions for Home Computer Security." Rick Wash. University of Michigan, 2009.
Chair: Jeffrey K. MacKie-Mason

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

Cliff Lampe, Rick Wash, Alcides Velasquez, and Elif Ozkaya. "Motivations to Participate in Online Communities." *ACM Conference on Human Factors in Computing (CHI)* (2010).
Emilee Rader and Rick Wash. "Influences on Tag Choices in del.icio.us." *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW)* (2008).
Rick Wash and Jeffrey MacKie-Mason. "Incentive-Centered Design for Information Security." *Proceedings of the International Conference on Electronic Commerce (ICEC)* (2007).

- Rick Wash and Emilee Rader. "Public Bookmarks and Private Benefits: An Analysis of Incentives in Social Computing." *Proceedings of the American Society for Information Science and Technology (ASIS&T) Annual Meeting* (2007).
- Rick Wash, Libby Hemphill, and Paul Resnick. "Design Decisions in the RideNow Project." *Proceedings of the ACM Conference on Supporting Group Work (GROUP)* (2005).
- Thede Loder, Marshall Van Alstyne, and Rick Wash. "An Economic Solution to the Spam Problem." *Proceedings of the ACM Conference on Electronic Commerce (EC)* (2004).

Refereed Workshop Presentations

- Rick Wash and Emilee Rader. "Using Economic Modeling to Predict User Behavior." (2010) In *Understanding Online Behavior, a workshop at CHI 2010*.
- Rick Wash. "Incentive Design for Home Computer Security." In *iConference, Doctoral Colloquium* (2008).
- Rick Wash. "Mental Models of Home Computer Security." (July 2008). Extended Abstract in *SOUPS, The Symposium on Usable Privacy and Security, Poster Session*.
- Rick Wash and Jeff MacKie-Mason. "A Social Mechanism for Home Computer Security." (December 2008). *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, Papers Track* (2008).
- Rick Wash. "Incentive Design for Home Computer Security." Extended Abstract 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). Extended Abstract in *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)*.
- Jose Nazario, Jeremy Anderson, Rick Wash, and Chris Connelly. "The Future of Internet Worms." In *Blackhat Briefings* (2001).

Working Papers

- Rick Wash. "Folk Models of Home Computer Security." (Aug. 2009). Part of my dissertation.
- Rick Wash and Jeff MacKie-Mason. "Using a Minimum Threshold to Motivate Contribution to Social Computing." (Jun. 2009). Part of my dissertation.
- 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." At *DIMACS Workshop on Information Security Economics* (2007).
- Rick Wash and Jeffrey MacKie-Mason. "Incentive-Centered Design for Information Security." At *Ford Information Technology Seminar* (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*.

Teaching Experience

- Instructor: TC 458: *Project Management*, TISM, Michigan State University. Spring 2010.
- Instructor: TC 449: *Server-Side Web Development*, TISM, Michigan State University. Spring 2010.
- 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 on the CHI 2010 Program Committee (Associate Chair, Beyond the Individual subcommittee)

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

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

Previous Work Experience

- *Digital Labs*. Research Intern. Summer 2001. Developed a research prototype intrusion detection system.
- *Microsoft*. Software Development Engineer in Test Intern. 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.aspx>
- 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 and http://stiet.cms.si.umich.edu/sites/stiet.cms.si.umich.edu/files/DetroitFreePressonSTIET_Oct2007.pdf
- [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.umich.edu/files/STIETNewsFall08.pdf>