

# Rick Wash

## Visiting Assistant Professor

Department of Telecommunications, Information Studies, and Media  
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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

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

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

Rick Wash. "Folk Models of Home Computer Security." *Symposium on Usable Privacy and Security (SOUPS)* (2010).

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. "Security When People Matter: Structuring Incentives For User Behavior." *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

- Lampe, C., Ellison, N., Vitak, J., Wohn, Y., & Wash, R. (2010). "Social Sensemaking: Propensity to use Facebook to reduce classroom equivocality." Paper to be presented at the *60th Annual Conference of the International Communication Association*, Singapore.
- 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

- Donghee Yvette Wohn, Cliff Lampe, Nicole Ellison, Rick Wash, and Jessica Vitak. "The "S" in Social Network Games: Initiating, Maintaining, and Enhancing Relationships" (June 2010).
- 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.metromodedia.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](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](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>