

**Emilee J. Rader** (formerly E. Patrick)

**Curriculum Vitae**

Communication Arts & Sciences  
404 Wilson Road, Room 420  
East Lansing, MI 48824-1212  
emilee@msu.edu  
<http://msu.edu/~emilee>  
<http://bitlab.cas.msu.edu/>

Office: 517-432-1334 | Fax: 517-355-1292 | Mobile: 847-514-0481

**APPOINTMENTS**

*Assistant Professor and AT&T Scholar (2011-present)*  
Department of Media and Information  
College of Communication Arts & Sciences  
Michigan State University

**EDUCATION**

*Ph.D., Information (Fall 2009)*  
School of Information, University of Michigan

*Master of HCI (August 1999)*  
Human Computer Interaction Institute, Carnegie Mellon University

*B.S., Psychology (Fall 1995)*  
University of Wisconsin at Madison (Graduated with Distinction)

**RESEARCH & PROFESSIONAL EXPERIENCE**

- |         |   |
|---------|---|
| 2010-11 | <i>Assistant Professor</i><br>Department of Communication Studies, Northwestern University  |
| 2009-10 | <i>Computing Innovation Fellow (postdoc)</i><br>Center for Technology and Social Behavior, Northwestern University  |
| 2004-09 | <i>Graduate Student Research Assistant</i><br>School of Information, University of Michigan   |
| 1999-04 | <i>Senior Human Factors Scientist</i><br>User Centered Solutions Lab, Motorola Labs   |
| 1998-99 | <i>Usability Analyst and Interface Designer.</i> Carnegie Technical<br>Education in Pittsburgh, PA (now <a href="http://www.icarnegie.com/">http://www.icarnegie.com/</a> ) |
| 1994-96 | <i>Undergraduate Research Assistant, Communicative Development</i><br>Inventory Lab. Department of Psychology, University of Wisconsin-Madison                              |

## RESEARCH GRANTS AND FELLOWSHIPS

Title / Source	Period	Amount
<i>TWC: Small: Designing a Coordination Mechanism for Managing Privacy as a Common-Pool Resource</i> National Science Foundation (CNS-1524296) Role: PI	2015-2018	\$463,107
<i>III: HCC: Small: Effects of Automated Information Selection and Presentation in Online Information Systems</i> National Science Foundation (IIS-1217212) Role: PI REU supplement 2013: \$16,000	2012-2016	\$486,093
<i>TC: Small: Collaborative Research: Influencing Mental Models of Security</i> National Science Foundation (CNS-1115926) Role: PI REU Supplement 2015: \$8,000 REU Supplement 2014: \$8,000 REU Supplement 2013: \$8,000 REU Supplement 2012: \$16,000	2011-2016	\$241,589
<i>Computing Innovation Fellowship</i> Computing Research Association (CRA) and NSF (in conjunction with CNS-0937060)	2009-2010	\$140,000

## PEER-REVIEWED PUBLICATIONS

- Rader, E.** and Wash, R. (in press). Identifying Patterns in Informal Sources of Security Information. *Journal of Cybersecurity*.
- Wash, R. and **Rader, E.** (2015). Too Much Knowledge? Security Beliefs and Protective Behaviors Among United States Internet Users. *SOUPS 2015*. Acceptance Rate 24%.
- Rader, E.** and Gray, R. (2015). Understanding User Beliefs About Algorithmic Curation in the Facebook News Feed. *CHI 2015*. Acceptance Rate 23%.
- Rader, E.** (2014). Awareness of Behavioral Tracking and Information Privacy Concern in Facebook and Google. *SOUPS 2014*. Acceptance Rate 27%.
- Wash, R., **Rader, E.**, Vaniea, K. and Rizor, M. (2014). Out of the Loop: How Automated Software Updates Cause Unintended Security Consequences. *SOUPS 2014*. Acceptance Rate 27%.
- Vaniea, K., **Rader, E.**, Wash, R. (2014). Betrayed by updates: how negative experiences affect future security. *CHI 2014*. Acceptance Rate 23%.
- Rader, E.**, Velasquez, A., Hales, K., and Kwok, H. (2012). The Gap Between Producer Intentions and Consumer Behavior in Social Media. *GROUP 2012*. Acceptance rate 37%.
- Rader, E.**, Wash, R., and Brooks, B. (2012). Stories as Informal Lessons About Security. *SOUPS 2012*. Acceptance rate 21%.
- Wash, R. and **Rader, E.** (2011). Influencing Mental Models of Security: A Research Agenda. *NSPW 2011*.
- Rader, E.**, Echelbarger, M. and Cassell, J. (2011). Brick by brick: Iterating interventions to

bridge the achievement gap with virtual peers. *CHI 2011*, 2971-2974. Acceptance rate 26%.

**Rader, E.** (2010). The Effect of Audience Design on Labeling, Organizing, and Finding Shared Files. *CHI 2010*, 777-786. Acceptance rate 22%.

**Rader, E.** (2009). Yours, Mine, and (Not) Ours: Social Influences on Group Information Repositories. *CHI 2009*, 2095-2098. Best Paper Honorable Mention (top 5% of papers). Acceptance rate 25%.

**Rader, E.** and Wash, R. (2008). Influences on Tag Choices in del.icio.us. *CSCW 2008*, 239-248. Acceptance rate 23%.

Wash, R. and **Rader, E.** (2007). Public Bookmarks and Private Benefits: An Analysis of Incentives in Social Computing. *ASIS&T Annual Meeting 2007*.

Batcheller, A. L., Hilligoss, B., Nam, K., **Rader, E.**, Rey-Babarro, M., & Zhou, X. (2007). Testing the Technology: Playing Games with Video Conferencing. *CHI 2007*, 849-852. Acceptance rate 25%.

**Patrick, E.**, Cosgrove, D., Slavkovic, A., Rode, J.A., Verratti, T. and Chiselko, G. (2000). Using a large projection screen as an alternative to head-mounted displays for virtual environments. *CHI 2000*, 478-485. Acceptance rate 21%.

## CONFERENCE PROCEEDINGS AND WORKSHOP PAPERS

Vania, K., **Rader, E.**, and Wash, R. (2014) Mental Models of Software Updates. *International Communication Association. Seattle*.

Wash, R. and **Rader, E.** (2010). Using Economic Modeling to Predict User Behavior. *CHI 2010 Workshop: Models, theories and methods of studying online behavior*, Atlanta, GA.

**Rader, E.** (2008). Group Information Repositories as Social Systems. *4th Annual SIG SI Social Informatics Research Symposium*, Columbus, OH.

Wash, R. and **Rader, E.** (2008). Understanding del.icio.us Tag Choice Using Simulations. *iSchools Conference 2008*, Los Angeles, CA.

Hofer, E., **Rader, E.**, and Finholt, T. (2005). Toward supporting virtual collocation. *WACE 2005 (Workshop on Advanced Collaborative Environments)*, Seattle, WA.

**Rader, E.** (2002). Small Group Communication over the Access Grid: A Case Study. *Proceedings of the 2002 Access Grid Retreat*, San Diego, CA.

**Rader, E.** (2001). Barriers to Collaboration: User-Centered Research and the Access Grid. *Proceedings of the 2001 Access Grid Retreat*, Argonne National Labs.

## POSTERS

Berman, R., Wash, R. and Rader, E. Predicting Password Practices. Mid-Michigan Symposium for Undergraduate Research Experiences (MiD-SURE).

Finch, J. and Rader, E. (2015). Differentiating the Effects of Social Influence and Homophily on Social Networks. Mid-Michigan Symposium for Undergraduate Research Experiences (MiD-SURE).

Pinto Santos, R.P., Wash, R., and Rader, E. Cleaning Computer Security Data. Mid-Michigan Symposium for Undergraduate Research Experiences (MiD-SURE).

Rosemurgy, P. and Rader, E. (2015). Modeling the Diffusion of Shared Votes on Facebook. Mid-Michigan Symposium for Undergraduate Research Experiences (MiD-SURE).

Hoban, K., Rader, E., Wash, R., and Vaniea, K. (2014). Computer Security Information in Stories, News Articles, and Education Documents. *SOUPS 2014*. **Distinguished Poster Award Winner.**

Jung, Y. and Rader, E. (2014). Transitive Privacy Concern in Social Networks. *SOUPS 2014*.

Baker, C. and Rader, E. (2014). Algorithmic Curation: Understanding the Content Network. Mid-Michigan Symposium for Undergraduate Research Experiences (MiD-SURE).

Bisht, S., Vaniea, K., Wash, R., and Rader, E. (2014). What Does Computer Security Cost You? Mid-Michigan Symposium for Undergraduate Research Experiences (MiD-SURE).

Rose, P. and Rader, E. (2014). Online Information Privacy: Understanding User Concern and Behavior. MSU University Undergraduate Research and Arts Forum (UURAF).

Hoban, K., Rader, E., Vaniea, K., and Wash, R. (2014). Computer Security: Stories, Articles, and Education Documents. MSU University Undergraduate Research and Arts Forum (UURAF).

Elhazzat, J., Hasselbeck, T., Vaniea, K., Rader, E., and Wash, R. (2014). Reconstructing Digital Events. MSU University Undergraduate Research and Arts Forum (UURAF).

Rizor, M., Vaniea, K., Rader, E., Wash, R. (2013). Out of the Loop: How Automated Software Updates Cause Unintended Security Consequences. MSU Cyberinfrastructure Days 2013. **Winner of the 2nd place prize for Best Poster.**

Heldt, R., Vaniea, K., Wash, R., and Rader, E. (2013). The difficulties of Tracking Users' Online Passwords. Mid-Michigan Symposium for Undergraduate Research Experiences (MiD-SURE).

Hinck, A., Wash, R., Vaniea, K., Rader, E. (2013). What do YOU Think is a Virus? Mid-Michigan Symposium for Undergraduate Research Experiences (MiD-SURE).

Hoban, K., Girouard, Z., Rader, E., Vaniea, K., and Wash, R. (2013). Computer and Information Security: Educating the User. Mid-Michigan Symposium for Undergraduate Research Experiences (MiD-SURE).

Saxton, N., Vaniea, K., Wash, R., Rader, E. (2013). Tracking Browsing Context in Internet Security Behaviors Research. Mid-Michigan Symposium for Undergraduate Research Experiences (MiD-SURE).

Olsen, T., Saxton, N., Vaniea, K., Wash, R., and Rader, E. (2012). Do People Behave Securely Online? MSU University Undergraduate Research and Arts Forum (UURAF).

Rizor, M., Wash, R., Vaniea, K., and Rader, E. (2012). User Understanding of Security Software Updates: An Interdisciplinary Approach. MSU University Undergraduate Research and Arts Forum (UURAF).

Zemanek, N., Velasquez, A., Rader, E. and Wash, R. (2012). Content Analysis of Security Education Materials Created for User Consumption. MSU Summer Undergraduate Research Forum (SURF).

Rader, E. (2007). Just email it to me! Why things get lost in shared file repositories. *GROUP 2007*, Nov. 4-7, 2007, Sanibel Island, FL.

Rader, E. and Wash, R. (2006). Tagging with del.icio.us: Social or Selfish? *CSCW 2006*, Nov. 4-8 2006, Banff, Alberta, CA.

## EXTERNAL PRESENTATIONS

Rader, E. (2015). A Filter Bubble For Relationships, *Algorithmic Transparency Workshop, Tow Center for Digital Journalism at Columbia University*, March 27, 2015.

- Rader, E. (2011). Understanding Infrastructure for Social Information Sharing, *Michigan State University, Department of Telecommunication, Information Studies and Media*, April 15, 2011.
- Rader, E. (2010). How “Social” is the Social Web? *Northwestern University, Department of Communication Studies*, January 22, 2010.
- Rader, E. (2010). How “Social” is the Social Web? *University of Maryland Baltimore County, Department of Information Systems*, January 14, 2010.
- Rader, E. (2010). Exploring the “Social” Nature of Social Media in Organizations. *NCA 2010 Panel: Social Media and the Communication of Knowledge in the Workplace*, San Francisco, CA.
- Rader, E. (2009). Just Email It to Me! Why Things Get Lost in Group Information Repositories. *Rutgers University, School of Communication and Information Studies*, February 6, 2009.
- Rader, E. (2007). What Did You Call It? How Document Labeling and Organizing Affect Finding in Shared Repositories. *Johns Hopkins University Applied Physics Laboratory*, November 8, 2007
- Rader, E. (2007). What did you call it again? Language Use in Group Information Management Systems. *GROUP 2007 Doctoral Colloquium*, Sanibel Island, FL.
- Rader, E. and Johnston, E. (2005). Cooperation and Competition in Video Games: Implications for Collaborative Systems. *Connections 2005*, Montreal, Quebec, Canada.
- Patrick, E. (2001). Access Grid Node User Studies: Distributed Video Mediated Communication. *Motorola Labs 2001 Real Technology Series*, Schaumburg, IL.
- Patrick, E. (2001). User Centered Evaluation of the Access Grid. *Access Grid Human Factors Workshop*, Argonne National Labs.
- Patrick, E. (2001). User Centered Research and the Access Grid: Requirements for Collaboration. *Access Grid Retreat 2001*, Argonne National Labs.
- Patrick, E. (2001). The Access Grid: Beyond Videoconferencing. *Chicago chapter of ACM SIG-CHI*, Chicago IL.

## BOOK CHAPTERS

- Wash, R. and **Rader, E.** (2012). Folk Models of Home Computer Security. Markus Jacobsson (Ed.). *The Death of the Internet*, Wiley; ISBN 978-1118062418
- Birnholtz, J., **Rader, E.**, Horn, D.B., and Finholt, T. (2009). Enabling Remote Participation in Research. B. Whitworth and A. de Moor (Eds.) *Handbook of Research on Socio-Technical Design and Social Networking Systems*. Information Science Reference; ISBN 978-1605662640

## TECHNICAL REPORTS

- Metcalf, C. and Patrick, E. Sharing Photos: Sending, Receiving, and Reviewing Personal Photographs with Family and Friends. *Motorola Labs Technical Report*, February 2003, Schaumburg IL.
- Patrick, E. and Metcalf, C. Mediated Communication Between Extended Family and Friends: A Case Study. *Motorola Labs Technical Report*, September 9, 2001, Schaumburg IL.
- Patrick, E. and Marturano, L. GTSS Information Architecture User Study Report. *Motorola Labs Technical Report*, June 2001, Schaumburg IL.
- Patrick, E. Motorola Labs Website Usability Report. *Motorola Labs Technical Report*, January 2000, Schaumburg IL.

Patrick, E. Motorola “CoPilot” Usability Evaluation. *Motorola Labs Technical Report*, November 1999, Schaumburg IL.

#### INTERNAL PRESENTATIONS AND TALKS

- 2014     *Sharper Focus, Wider Lens, MSU Honors College Panel* Topic: A Filter Bubble For Relationships, March 30, 2015.
- 2014     *MIS Proseminar* Topic: Human Computer Interaction. Sept. 5, 2014.
- 2013     *MSU Cyberinfrastructure Days Panel* Topic: Research-Enabling Tools and Technologies: Challenges and Experiences from a MSU PI Perspective. Oct. 25, 2013.  
          *Lab Environmental Reporting, Journalism 472* Topic: Face Recognition. Oct. 3, 2013.  
          *MIS Program Job Market Panel* Sept. 27, 2013.  
          *Research Data Management Cafe* Topic: Data Management in Interdisciplinary Projects. Apr. 29, 2013.
- 2012     *MIS Proseminar* Topic: Information Science. Mar. 16, 2012.  
          *Media Impacts on Society, TC401*. Topic: Incentives and constraints in online communities. MSU Guest Lecture. November 15, 2012.
- 2011     *Applied Research Methods, (MTS 525)* NU Guest Lecture, Feb. 28, 2011.  
          *MSU Comm Arts Brownbag Series*, Oct. 27, 2011.  
          *MIS Program Job Market Panel*, Sept. 30, 2011.
- 2010     *NU SoC Century Scholars Invited Talk*, Nov. 11, 2010.  
          *MTS Graduate Seminar (MTS 501)*. NU Guest Lecture.  
          *Applied Research Methods, (MTS 525)* NU Guest Lecture.
- 2009     *Doctoral Foundations (SI 701)*. SI Guest Lecture.  
          *SI Academic Job Search Panel*, Apr. 23, 2010.
- 2008     *Human Interaction in Information Retrieval (SI 531)*. SI Guest Lecture.  
          *Research Methods (SI 840)*. SI Guest Lecture.
- 2007     *CSCW (SI 689)*. SI Guest Lecture.  
          *Public Goods (SI 686)*. SI Guest Lecture.  
          *Research Methods (SI 840)*. SI Guest Lecture.  
          *Organization of Information Resources (SI 666)*. SI Guest Lecture.
- 2006     *SI CREW Seminar Invited Talk*, Apr. 10, 2006.

## AWARDS AND HONORS

- 2011 Accepted the endowed AT&T Scholar position, in the Telecommunication, Information Studies and Media department at Michigan State University. This position comes with \$15,000 of research funding, renewed annually.
- 2010 Selected to participate in the CCC/CRA Ultra-large-scale Interaction Workshop
- 2009 Selected to participate in CSST '09, an NSF-funded workshop associated with the Consortium for the Science of Sociotechnical Systems  
CHI '09 paper received Best Paper Honorable Mention (top 5% of submissions)

## UNIVERSITY SERVICE

### *Michigan State University*

- 2015 Served on the MIS PhD Program Review Committee, Spring 2015  
Co-Organized MIS Research Symposium, Fall 2015
- 2014 Panelist for MSU Women's Alliance session on "Working Women"  
Co-Organized MIS Research Symposium, Spring 2014  
Presented a Responsible Conduct of Research session on "Management of Data", March 21, 2014
- 2013 Director of Graduate Studies, TISM  
Co-Organized MIS Spring Research Symposium 2013
- 2012 TISM PhD Committee  
Co-Organized MIS Research Symposium, Spring 2012, and served as judge  
Served as a mentor for a SROP student during Summer 2012  
Served on a university-wide IT services advisory committee

### *Northwestern University, Communication Studies Department*

- 2011 Technology and Social Behavior PhD Admissions committee
- 2010-11 Organizer of TSB Seminar Series (with Darren Gergle)
- 2010-11 Chair's Advisory Committee, Department of Communication Studies

### *University of Michigan, School of Information*

- 2006 PhD Admissions Committee
- 2005-06 President of the Doctoral Student Organization
- 2005-06 Doctoral Committee

## PROFESSIONAL SERVICE

### *Conference Program Committees*

- ACM Conference on Computer-Human Interaction (CHI) 2010, 2012, 2014  
as Associate Chair
- ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) 2013, 2015 as Associate Chair
- SOUPS (Symposium on Usable Privacy and Security) 2013, 2015

### *Reviewer (Journals)*

- Human Computer Interaction Journal
- International Journal of Human Computer Studies

### *Reviewer (Conferences)*

- CSCW 2008-2016
- CHI 2006-2016
- IUI 2015
- Graphics Interface 2015 (HCI Track)

UIST 2014  
WWW 2012  
iConference 2012  
ICWSM 2011  
GROUP 2009

*Invited Panelist (Grant Proposals)*

National Science Foundation (NSF), 2011-2013  
Austrian Research Promotion Agency (FFG), 2011

**TEACHING**

*Instructor of Record*

Digital Footprints: Privacy and the Online Information Explosion  
Fall 2012, 2013; Spring 2012 (MSU TC 291)  
Winter 2011 (Northwestern Comm Studies 395)

Human Computer Interaction

Spring 2015 (CAS 992)  
Spring 2013-2015 (MSU TC 845)  
Spring 2012 (MSU TC 891)

Online Communities

Spring 2011 (Northwestern Comm Studies 378)

Multi-disciplinary Perspectives on Social Media Research

Spring 2011 (Northwestern Comm Studies 525)

*Independent Study Projects Supervised*

Rebecca Gray (MIS PhD): Spring 2013  
Yumi Jung (MIS PhD): Fall 2012

*Co-Instructor*

Doctoral Development Seminar (UMSI)  
with Cory Knobel and Yong-Mi Kim, Fall and Winter 2008 (UMSI)

**STUDENTS/POSTDOCS SUPERVISED**

*Postdoctoral Researchers*

Kami Vaniea, MSU. 2012-2014

*PhD Advisor*

Yumi Jung, MIS, MSU. 2012-present  
Alina Lungeanu, TSB, Northwestern. 2010-2011

*Dissertation Committee Member*

Wenjuan Ma, MIS PhD  
Janine Slaker, MIS PhD  
Jacob Solomon, MIS PhD

*Graduate Research Assistants*

Chankyung Pak, MIS PhD. 2015-present  
Janine Slaker, MIS PhD. 2015-present  
Rebecca Gray, MIS PhD. 2013-2014  
Yumi Jung, MIS PhD. 2012-2013  
Laeq Khan, MIS PhD. 2012-2013  
Brandon Brooks, MIS PhD. 2011-2012  
Alcides Velasquez, MIS PhD. 2011-2012  
Shih-Chi Steven Chen, EECS MS, Northwestern. 2010-2011

*Emilee Rader (formerly E. Patrick)*

*updated: October 2, 2015*



#### *MA Committee Member*

Carl Anderson, TISM. 2013-present (as Chair)

Bill Morgan, TISM. 2012-present

Chris Hamrick, TISM. 2011

Alison Virag-McCann, TISM. 2012-2013

#### *Present Undergraduate Research Assistants*

*[All Undergrad RAs are from MSU unless otherwise noted.]*

Katie Hoban, Summer REU 2013 and 2014; and Fall 2013-present

Meghan Huynh, Fall 2014-present

Paul Rosemurgy, Fall 2014-present

#### *Former Undergraduate Research Assistants*

*[All Undergrad RAs are from MSU unless otherwise noted.]*

Howard Akumiah, Fall 2012-Spring 2013

Pierre Arellano (Washington State University), MSU SROP Program 2012

Cody Baker (University of Evansville), Summer REU 2014

Ruth Berman (Macalester College), Summer REU 2015

Shiwani Bisht (Cornell University), Summer REU 2014

Jallal Elhazzat, Spring 2014

James Finch, Summer REU 2015

Zack Girouard, Fall 2012-Summer 2013

Leanarda Gregordi, Fall 2012

Tim Hasselbeck, Spring 2014

Raymond Heldt, Summer REU 2013

Alexandra Hinck (Beloit College), Summer REU 2013

Nathan Klein (Oberlin College), Summer REU 2014

Kyle Kulesza, Fall 2013-Spring 2014

Helen Kwok (Northwestern University), 2011

Lauren McKown, Spring-Summer 2012

Tyler Olsen, Fall 2012-Spring 2013

Ruchira Ramani, Fall 2013

Michelle Rizor, Fall 2012-Spring 2014

Paul Rose, 2012-2015

Scott Rucinski, Fall 2013-Spring 2014

Robert Plant Pinto Santos (Universidade Federal do Ceará, Brazil), Summer REU 2015

Nick Saxton, Summer REU 2013 and Fall 2012-Fall 2013

Kimberly Setili, Spring 2012 and Summer REU 2012

Alison Thierbach, Summer REU 2012

Elaine Wang (Northwestern), 2011

Nate Zemanek, Summer REU 2012

#### **PRESS COVERAGE**

- I was interviewed for a TV news story about Facebook and privacy in October 2012:  
<http://www.wnem.com/video?clipId=7886591>
- Our work on computer security was covered in a TechRepublic column in September 2012:  
<http://www.techrepublic.com/blog/security/inside-your-users-brains-where-they-get-security-advice/8361>
- I was interviewed for a news article about digital privacy, in April 2012:  
<http://www.lansingcitypulse.com/lansing/article-7288-phone-spy.html>
- An MSU Press Release on Dec 16, 2011 about my collaborative NSF grant with Rick Wash was picked up by the Associated Press, which caused it to get mentioned around the web:
  - Detroit Free Press: Jan 2, 2012. (dead link)

<http://www.freep.com/article/20120102/NEWS06/120102009/U-S-MSU-computer-security>

- The Republic: Jan 2, 2012. (dead link)  
<http://www.therepublic.com/view/story/fb75369eb3e24afe9a05d62728b1f0ed/MI-Home-Computer-Security/>
- Lansing State Journal: Jan 2, 2012. (dead link)  
<http://www.lansingstatejournal.com/usatoday/article/38251127>
- Green Bay Press-Gazette (and many other Gannett papers): Jan 2, 2012. (dead link)  
<http://www.greenbaypressgazette.com/usatoday/article/38251127>
- WDIV Detroit: Jan 2, 2012. <http://www.clickondetroit.com/news/US-helps-MSU-profs-study-home-computer-security/-/1719418/7545626/-/90s71y/-/index.html>
- MSU Press Release on Dec 16, 2011: <http://news.msu.edu/story/10148>