

# SARAH VIEWEG

## CURRICULUM VITAE

University of Colorado  
ATLAS Building, Room 320  
320 UCB  
Boulder, CO 80309-0320

sarah.vieweg@colorado.edu  
www.sarahvieweg.com  
Mobile: 720-352-7334

### INTERESTS

My research interests are in Human-Computer Interaction (HCI), Computer-Supported Cooperative Work (CSCW), Social Media, Microblogging, and Natural Language Processing (NLP). I use ethnographic, discourse analytic and human-centered design techniques to understand user behavior in both online and offline settings, with a focus on developing intuitive technologies that help users locate and organize useful, personally meaningful information.

### EDUCATION

#### **Ph.D. in Technology, Media and Society**

University of Colorado, Boulder, CO expected May 2012

Advisor: Leysia Palen, Ph.D.

#### **M.A. in Linguistics**

University of Colorado, Boulder, CO August 2007

#### **Graduate Certificate in Human Language Technology**

University of Colorado, Boulder, CO May 2007

#### **B.A. in Economics and French**

University of Illinois, Urbana-Champaign, IL May 1999

### RESEARCH EXPERIENCE

#### **Research Assistant**

*EPIC Lab (Empowering the Public with Information in Crisis), Fall 2007 – Present*

I conduct qualitative and quantitative research to understand human behavior through technology use during times of mass emergency. Specifically, I analyze how people use Twitter to communicate information in safety-critical situations. Results of my research inform the development of computational tools that enable people to better find, organize and understand timely, relevant information.

#### **Project Supervisor and Verb Sense Annotator**

*Verb Sense Annotation Project, Fall 2005 – Summer 2007*

I trained, mentored and managed a team of research assistants for an NSF- and DARPA-funded NLP research project on training machines to process and interpret human language.

## PUBLICATIONS

### *REFEREED JOURNAL ARTICLES*

- J3. Chi, Ed H., Sean Munson, Gerhard Fischer, Sarah Vieweg & Cynthia Parr. 2010. **Advancing the Design of Technology-Mediated Social Participation Systems**, IEEE Computer 43(11): 29-35.
- J2. Palen, Leysia, Sarah Vieweg & Kenneth M. Anderson. 2010. **Supporting “Everyday Analysts” in Safety- and Time-Critical Situations**. The Information Society, 27(1): 52-62.
- J1. Palen, Leysia, Sarah Vieweg, Sophia B. Liu & Amanda L. Hughes. 2009. **Crisis in a Networked World: Features of Computer-Mediated Communication in the April 16, 2007 Virginia Tech Event**. Social Science Computer Review, Special Issue on e-Social Science 27(5): 1-14.

### *LONG CONFERENCE PUBLICATIONS, REVIEWED IN FULL*

- C9. Verma, Sudha, Sarah Vieweg, William Corvey, Leysia Palen, James H. Martin, Martha Palmer, Aaron Schram and Kenneth M. Anderson. 2011. **NLP to the Rescue?: Extracting "Situational Awareness" Tweets During Mass Emergency**. Proceedings of the AAAI Conference on Weblogs and Social Media, ICWSM 2011.
- C8. Vieweg, Sarah, Amanda L. Hughes, Kate Starbird & Leysia Palen. 2010. **Microblogging During Two Natural Hazards Events: What Twitter May Contribute to Situational Awareness**. Proceedings of the ACM conference on Computer Human Interaction, CHI 2010.
- C7. Starbird, Kate, Leysia Palen, Amanda L. Hughes & Sarah Vieweg. 2010. **Chatter on the Red: What Hazards Threat Reveals about the Social Life of Microblogged Information**. Proceedings of the ACM conference on Computer Supported Cooperative Work, CSCW 2010.
- C6. Palen, Leysia & Sarah Vieweg. 2008. **The Emergence of Online Widescale Interaction in Unexpected Events: Assistance, Alliance and Retreat**. Proceedings of the ACM conference on Computer Supported Cooperative Work, CSCW 2008.
- C5. Vieweg, Sarah, Leysia Palen, Sophia B. Liu, Amanda L. Hughes & Jeannette Sutton. 2008. **Collective Intelligence in Disaster: An Examination of the Phenomenon in the Aftermath of the 2007 Virginia Tech Shootings**. Proceedings of the Information Systems for Crisis Response and Management Conference, ISCRAM 2008. **\*\*Tied for best student paper award\*\***
- C4. Hughes, Amanda L., Leysia Palen, Jeannette Sutton, Sophia B. Liu & Sarah Vieweg. 2008. **Sight-Seeing in Disaster: An Examination of On-Line Social Convergence**. Proceedings of the Information Systems for Crisis Response and Management Conference, ISCRAM 2008. **\*\*Tied for best student paper award\*\***

- C3. Liu, Sophia B., Leysia Palen, Jeannette Sutton, Amanda L. Hughes & Sarah Vieweg. 2008. **In Search of the Bigger Picture: The Emergent Role of On-Line Photo Sharing in Times of Disaster**. Proceedings of the Information Systems for Crisis Response and Management Conference, ISCRAM 2008. **\*\*Tied for best student paper award\*\***
- C2. Palen, Leysia, Sarah Vieweg, Jeannette Sutton, Sophia B. Liu & Amanda L. Hughes. 2007. **Crisis Informatics: Studying Crisis in a Networked World**. Proceedings of the Third International Conference on E-Social Science, eSS 2007.
- C1. Duffield, Cecily Jill, Jena D. Hwang, Susan Windisch Brown, Dmitriy Dligach, Sarah E. Vieweg, Jenny Davis & Martha Palmer. 2007. **Criteria for Manual Clustering of Verb Senses**. Proceedings of the 29th Annual Conference of the Cognitive Science Society, CogSci 2007.

#### *BOOK CHAPTERS AND INVITED PUBLICATIONS*

- B3. Starbird, Kate, Leysia Palen, Sophia B. Liu, Sarah Vieweg, Amanda Hughes, Aaron Schram, Kenneth M. Anderson, Mossaab Bagdouri, Joanne White, Casey McTaggart, and Chris Schenk. 2011. **Promoting Structured Data in Citizen Communications during Disaster Response: An Account of Strategies for Diffusion of the “Tweak the Tweet” Syntax**. To appear in Christine Hagar (Ed.) *Crisis Information Management: Communication and Technologies*, Chandos Publishing.
- B2. Palen, Leysia, Kate Starbird, Sarah Vieweg, Amanda Hughes. 2010. **Twitter-based information distribution during the 2009 Red River Valley flood threat**. *Bulletin of the American Society for Information Science and Technology*, 36(5): 13–17.
- B1. Liu, Sophia B., Leysia Palen, Jeannette Sutton, Amanda L. Hughes & Sarah Vieweg. 2009. **Citizen Photojournalism During Crisis Events**. In Stuart Allen and Einar Thorsen (Eds.), *Citizen Journalism: Global Perspectives*. New York: Peter Lang. \*reprint of a previous conference paper

#### *WORKSHOP PAPERS*

- W6. Vieweg, Sarah. 2011. **Feminist Conversation Analysis: Opportunities for HCI**. CHI 2011 Workshop on Feminism and Interaction Design.
- W5. Corvey, William J., Sarah Vieweg, Travis Rood & Martha Palmer. 2010. **Twitter in Mass Emergency: What NLP Techniques Can Contribute**. NAACL HLT Workshop on Computational Linguistics in a World of Social Media, 23-24.
- W4. Vieweg, Sarah & Kate Starbird. **Microblogging in Mass Emergency**. CHI 2010 Workshop on Microblogging: What and How Can We Learn From It?
- W3. Vieweg, Sarah. 2010. **The Ethics of Twitter Research**. CSCW 2010 Workshop on Revisiting Ethics in the Facebook Era: Challenges in Emerging CSCW Research.

W2. Vieweg, Sarah. 2008. **Social Networking Sites: Reinterpretation in Crisis Situations**. CSCW 2008 Workshop on Social Networking in Organizations.

W1. Duffield, Cecily Jill, Jena D. Hwang, Susan Windisch Brown, Dmitriy Dligach, Sarah E. Vieweg, Jenny Davis & Martha Palmer. 2007. **Criteria for the Manual Grouping of Verb Senses**. Proceedings of the Linguistic Annotation Workshop, Prague, Czech Republic, June 28-29, 2007.

### *ORGANIZED WORKSHOP*

w1. Rotman, D., Vieweg, S., Yardi, S., Chi, E., Preece, J., Shneiderman, B., Pirolli, P. & Glaisyer, T. **From Slacktivism to Activism: Participatory Culture in the Age of Social Media**. Proceedings of the 29th International Conference on Human Factors in Computing Systems, CHI 2011.

### **DOCTORAL COLLOQUIUM**

DC1. Vieweg, S. 2010. **Microblogged Contributions to the Emergency Arena: Discovery, Interpretation and Implications** (CSCW 2010). Savannah, GA, Feb. 7, 2010

### **INVITED TALKS AND PANELS**

- P10. "The Computational World: Thinking about Twitter, Crisis and Communication" Presented to the Computational World class at the University of Colorado, March 11, 2011.
- P9. "ICT and Critical Environments" Presented to the Digital and Social Systems class at the University of Colorado, September 18, 2009.
- P8. "Speech acts and the Winograd/Flores and Suchman debate" Presented to the HCI Remixed class at the University of Colorado, December 9, 2008.
- P7. "Collective Intelligence in Disaster: Community Response in an Online Arena" Presented to Community Informatics Class at Dominican University, November 19, 2008.
- P6. Evaluator on Student Project Panel, User Interaction Design class at the University of Colorado, March 31, 2008.
- P5. "Ethics, Theories and Thoughts on HCI" Presented to the User Interaction Design class at the University of Colorado, March 12, 2008.
- P4. Evaluator on Student Project Panel, User Interaction Design class at the University of Colorado, February 6, 2008.
- P3. "HCI Researchers at CU" Presented to the User Interface Design class at the University of Colorado, November 28, 2007.
- P2. Evaluator on Student Project Panel, User Interface Design class at the University of Colorado, November 7, 2007.

- P1. “Verb Sense Disambiguation” Presented with Cecily Jill Duffield and Jena Hwang to the Département de Linguistique et de Traduction at the Université de Montréal, November 15, 2006.

## **TEACHING POSITIONS**

### **Teaching Assistant**

User Interaction Design (CSCI 4838/6838) Spring 2009

### **Course Grader**

Readings in HCI (CSCI 7000) Fall 2008

### **Course Grader**

User Interaction Design (CSCI 4838/6838) Fall 2007, Spring 2008

## **PROFESSIONAL SERVICE**

### **Reviewer**

ACM Conference on Human Factors in Computing (CHI)

ACM Conference on Computer-Supported Cooperative Work (CSCW)

ACM TOCHI Journal

International Conference on Intercultural Collaboration

Information Systems for Crisis Response & Management Conference (ISCRAM)

Culture, Language and Social Practice Conference (CLASP)

### **Conference Organizer**

Culture, Language and Social Practice (CLASP) 2007

### **Committee Member**

University of Colorado New Venture Challenge Business Plan Competition,  
2009-2011

University of Colorado New Venture Challenge Executive Committee, 2009-2010

University of Colorado Emergency Preparedness Committee, 2007

## **HONORS/AWARDS**

**Human Computer Interaction Consortium (HCIC), Pacific Grove, CA June 14-18, 2011; Fraser, CO Feb. 4-7, 2009 (Full Funding)**

Invited Student Participant

**Technology Mediated Social Participation (TMSP) workshop Palo Alto, CA, Dec. 10-11, 2009 (Full Funding)**

Initiative to organize agenda around research and education to promote technology-mediated interaction and participation in line with national and international priorities

**Mike Meleshkin Award for “Best PhD Paper”**

Information Systems for Crisis Response and Management (ISCRAM) Conference 2008