

KATE STARBIRD

Curriculum Vitae

Human Centered Design and Engineering
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EDUCATIONAL HISTORY

University of Colorado Boulder, Boulder, CO
PhD, Technology, Media & Society
August 2012

Dissertation: Crowdswork, Crisis and Convergence: How the Connected Crowd Organizes Information during Mass Disruption Events

Stanford University, Stanford, CA
BA, Computer Science
June 1997

EMPLOYMENT HISTORY

University of Washington
Seattle, WA
Assistant Professor, Human Centered Design & Engineering, 2012 – present

AFFILIATIONS AND OTHER APPOINTMENTS

Adjunct Professor, Computer Science & Engineering, University of Washington
Adjunct Professor, Information School, University of Washington

PUBLICATIONS

Journal Articles

1. Dailey, Dharma¹ and Kate Starbird (2014). Journalists as Crowdsourcerers: Responding to Crisis by Reporting with a Crowd. *Journal of Computer-Supported Cooperative Work, Special Issue: Crisis Informatics and Collaboration*.
2. Starbird, Kate, Dharma Dailey¹, Ann Hayward Walker, Thomas M. Leschine, Robert Pavia, and Ann Bostrom, (2015). Social Media, Public Participation, and the 2010 BP Deepwater Horizon Oil Spill. *Human and Ecological Risk Assessment: An International Journal*, 21(3), pp. 605-630.
3. Walker, Ann Hayward, Robert Pavia, Ann Bostrom, Thomas M. Leschine, and Kate Starbird. (2014). Communication practices for oil spills: Stakeholder engagement during preparedness and response. *Human and Ecological Risk Assessment: An International Journal*, 21(3): 667-690.

4. Bostrom, Ann, Susan Joslyn, Robert Pavia, Ann Hayward Walker, Kate Starbird, and Thomas M. Leschine. (2014). Methods for communicating the complexity and uncertainty of oil spill response actions and tradeoffs. *Human and Ecological Risk Assessment: An International Journal*, 21(3): 631-645.

Conference proceedings and other non-journal articles (*Fully refereed publications*)

5. John, Robinson¹, Jim Maddock and Kate Starbird (Accepted). Examining the Role of Human and Technical Infrastructure during Emergency Response. To be presented at the *2015 Information Systems for Crisis Response and Management Conference (ISCRAM 2015)*, Kristiansand, Norway.
6. Maddock, Jim, Kate Starbird, Haneen Al-Hassani, Daniel Sandoval, Mania Orand & Robert M. Mason, (2015). Characterizing Online Rumoring Behavior Using Multi-Dimensional Signatures. To appear in *Proceedings of the ACM 2015 Computer Supported Cooperative Work (CSCW 2015)*, Vancouver, B.C.
7. Huang, Y. Linlin, Kate Starbird, Mania Orand, Stephanie A. Stanek, & Heather T. Pedersen, (2015). Connected Through Crisis: Emotional Proximity and the Spread of Misinformation Online. To appear in *Proceedings of the ACM 2015 Computer Supported Cooperative Work (CSCW 2015)*, Vancouver, B.C.
8. Starbird, Kate, Jim Maddock¹, Mania Orand, Peg Achterman, & Robert M. Mason, (2014). Rumors, False Flags, and Digital Vigilantes: Misinformation on Twitter after the 2013 Boston Marathon Bombings. Short paper/Note. *iConference 2014*, Berlin, Germany.
9. Cobb, Camille¹, Ted McCarthy, Annuska Perkins, Ankitha Bharadwaj, Jared Comis, Brian Do, & Kate Starbird (2014). Designing for the Deluge: Understanding & Supporting the Distributed, Collaborative Work of Crisis Volunteers. *Proceedings of the ACM 2014 Computer Supported Cooperative Work (CSCW 2014)*, Baltimore, MD.
10. Starbird, Kate. (2014). Delivering Patients to Sacré Coeur: Collective Intelligence in Digital Volunteer Communities. *Proceedings of the ACM 2013 Conference on Human Factors in Computing Systems (CHI 2013)*, Paris, France.
11. Starbird, Kate and Leysia Palen. (2013). Working & Sustaining the Virtual “Disaster Desk.” *Proceedings of the ACM 2013 Conference on Computer Supported Cooperative Work (CSCW 2013)*, San Antonio, TX, pp. 491-502.
12. Starbird, Kate and Leysia Palen. (2012). (How) Will the Revolution be Retweeted? Information Diffusion and the 2011 Egyptian Uprising. *Proceedings of the ACM 2012 Conference on Computer Supported Cooperative Work (CSCW 2012)*, Seattle, WA, pp. 7-16.
13. Sarcevic, Aleksandra, Leysia Palen, Joanne White, Kate Starbird, Mossaab Bagdouri, and Kenneth Anderson. (2012). “Beacons of Hope” in Decentralized Coordination: Learning from On-the-Ground Medical Twitterers During the 2010 Haiti Earthquake. *Proceedings of the ACM 2012 Conference on Computer Supported Cooperative Work (CSCW 2012)*, Seattle, WA, pp. 47-56.
14. Starbird, Kate, Grace Muzny and Leysia Palen. (2012). Learning from the Crowd: Collaborative Filtering Techniques for Identifying On-the-Ground Twitterers during Mass Disruptions. Presented at the *2012 Information Systems for Crisis Response and Management Conference (ISCRAM 2012)*, Vancouver, Canada.
15. Starbird, Kate and Leysia Palen. (2011). “Voluntweeters”: Self-Organizing by Digital Volunteers in Times of Crisis. *Proceedings of the ACM 2011 Conference on Human Factors in Computing Systems (CHI 2011)*, Vancouver, CA, pp. 1071-1080.
16. Starbird, Kate and Leysia Palen. (2011). More Than the Usual Suspects: The Physical Self and Other Resources for Learning to Program Using a 3D Avatar Environment. Presented at the *2011 iConference*, Seattle, WA.

17. Starbird, Kate, Leysia Palen, Amanda L Hughes, and Sarah Vieweg. (2010). Chatter on The Red: What Hazards Threat Reveals about the Social Life of Microblogged Information. *Proceedings of the ACM 2010 Conference on Computer Supported Cooperative Work (CSCW 2010)*, Savannah, GA, pp. 241-250.
18. Starbird, Kate and Leysia Palen. (2010). Pass It On?: Retweeting in Mass Emergencies. Presented at the *2010 Information Systems for Crisis Response and Management Conference (ISCRAM 2010)*, Seattle, WA.
19. Vieweg, Sarah, Amanda L. Hughes, Kate Starbird, and Leysia Palen. (2010). A Comparison of Microblogging Behavior in Two Natural Hazards Events: What Twitter May Contribute to Situational Awareness. *Proceedings of the ACM 2010 Conference on Human Factors in Computing Systems (CHI 2010)*, Atlanta, GA, pp. 1079-1088.

Conference proceedings and other non-journal articles (*Lightly Reviewed*)

1. Starbird, Kate, Emma Spiro, Ahmer Arif, Fang-Ju Chou, Sindhuja Narisimhan, Jim Maddock, Kelley Shanahan and John Robingson. (In submission). Expressed Uncertainty and Denials as Signals of Online Rumoring. Submitted to *Collective Intelligence 2015*.
2. Torkildson, Megan, Kate Starbird and Cecilia Aragon (2014). Analysis and Visualization of Sentiment and Emotion on Crisis Tweets. Short Paper. *2014 Conference on Cooperative Design, Visualization & Engineering (CDVE 2014)*.
3. Dailey, Dharma¹ and Kate Starbird. (2014). Visible Skepticism: Community Vetting after Hurricane Irene. Short Paper. *2014 Information Systems for Crisis Response and Management Conference (ISCRAM 2014)*, Penn State University.
4. Starbird, Kate. (2012). What “Crowdsourcing” Obscures: Exposing the Dynamics of Connected Crowd Work During Disaster. *Collective Intelligence 2012*, Cambridge, MA.
5. Starbird, Kate and Jeannie Stamberger. (2010). Tweak the Tweet: Leveraging Microblogging Proliferation with a Prescriptive Grammar to Support Citizen Reporting. Presented at the *2010 Information Systems for Crisis Response and Management Conference (ISCRAM 2010)*, Seattle, WA. Citations: 62, Google Scholar

Workshop papers and posters

1. Maddock, Jim, Kate Starbird and Bob Mason. (2015). Using Historical Twitter Data for Research: Ethical Challenges of Tweet Deletions. To appear in *CSCW '15 Workshop on Ethics at the 2015 Conference on Computer Supported Cooperative Work (CSCW 2015)*, Vancouver, Canada.
2. Dailey, Dharma and Kate Starbird. (2015) “It’s Raining Dispersants:” Collective Sensemaking of Complex Information in Crisis Contexts. Poster. *CSCW '15 Companion*, Mar 14-18 2015, Vancouver, BC, Canada
3. Al-Hassani, Haneen. (2014). Characterizing Online Rumoring Behavior Using Multi-Dimensional Signatures. Poster presented at the *National Society of Black Engineers (NSBE) Fall Regional Conference*, November 22, 2014, Burlingame, CA.
Honorable Mention, Best Poster
4. Starbird, Kate. (2013). Supporting the Geolocating Work of Crisis Mappers. Workshop Position Paper for CHI '13 Workshop on Geographic Human-Computer Interaction at the *2013 Conference on Human Factors in Computing Systems (CHI 2013)*, Paris, France.
5. Starbird, Kate. (2012). Digital Volunteerism: Examining Connected Crowd Work During Mass Disruption Events. Workshop Position Paper for CSCW'12 Workshop on Crisis Informatics and Collaboration at the *2012 Conference on Computer Supported Cooperative Work (CSCW 2012)*, Seattle, WA.

6. Starbird, Kate. (2011). Digital Volunteerism During Disaster: Crowdsourcing Information Processing. Workshop Position Paper for CHI '11 Workshop on Crowdsourcing and Human Computation at the *2011 Conference on Human Factors in Computing Systems (CHI 2011)*, Vancouver, Canada.
7. Vieweg, Sarah and Kate Starbird. (2010). Microblogging in Mass Emergency. Workshop Position Paper for CHI '10 Workshop on Microblogging: What and How Can We Learn From It? at the *2010 Conference on Human Factors in Computing Systems (CHI 2010)*, Atlanta, GA.
8. Starbird, Kate. (2008). Web 2.0 as a Constructionist Educator's Playground. Workshop Position Paper for CSCW '08 Workshop on Tinkering, Tailoring, & Mashing: The Social and Collaborative Practices of the Read-Write Web at the *2008 Conference on Computer Supported Cooperative Work (CSCW 2008)*, San Diego, CA.

Other papers and articles

1. Starbird, Kate, Dharma Dailey¹, Ann Hayward Walker, Tom M. Leschine, Robert Pavia, & Ann Bostrom. (2014). White Paper: Sense making through Twitter during the 2010 Gulf Oil Spill. Coastal Response Research Center (CRRRC), University of New Hampshire. Durham, New Hampshire, January 2014.
2. Starbird, Kate. (2013). Returning to My Inner Nerd: Following the "Social" Disruption of Computing. *Computer Magazine, Special Issue on Fostering Gender Diversity in Computing*, 46(3): 63-65.
3. Palen, Leysia, Kate Starbird, Sarah Vieweg and 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*, American Society for Information Science and Technology, Volume 36, Issue 5, (June/July 2010), pp. 13-17.

Chapters in edited books

1. Starbird, Kate, Leysia Palen, Sophia B. Liu, Sarah Vieweg, Amanda Hughes, Aaron Schram, Kenneth Mark Anderson, Mossaab Bagdouri, Joanne White, Casey McTaggart, and Chris Schenk. (2012). Promoting Structured Data in Citizen Communications During Disaster Response: An Account of Strategies for Diffusion of the 'Tweak the Tweet' Syntax. In Christine Hagar (Ed.), *Crisis Information Management: Communication and Technologies*, Cambridge, UK: Woodhead Publishing Limited.

Selected Media Coverage

1. Winters, Chris and Kari Bray. October 26, 2014. "Social media awash in info, but much of it is utterly false." *Everett Herald*. <http://www.heraldnet.com/article/20141026/NEWS01/141029186>
2. Hendersen, J. April 15, 2014. "Twitter Lessons from the Boston Marathon Bombings." KUOW (NPR affiliate) Radio Interview. <http://kuow.org/post/twitter-lessons-boston-marathon-bombings#.U01rVzu0q4M.twitter>
3. Ma, M. March 18, 2014. "Much misinformation tweeted after 2013 Boston Marathon bombing." *ScienceDaily*. <http://www.sciencedaily.com/releases/2014/03/140318124702.htm>
4. Soper, T. March 18, 2014. "Researchers look to flag false rumors on Twitter during breaking news events," *GeekWire*. <http://www.geekwire.com/2014/boston-marathon-twitter-error-researchers/>
5. Baer, Drake. November 9, 2012. "As Sandy Became #sandy, Emergency Services Got Social," *Fast Company*. <http://www.fastcompany.com/3002837/sandy-became-sandy-emergency-services-got-social>

6. Petty, Daniel. September 9, 2010. "Evacuees use Social Media to Keep Up on Boulder Wildfire Disaster Developments." *Denver Post*: denverpost.com.
http://www.denverpost.com/news/ci_16027417
7. Spellman, Jim. September 22, 2010. "Heading off Disaster, One Tweet at a Time." *CNN Tech*.
www.cnn.com/2010/TECH/social.media/09/22/natural.disasters.social.media/index.html
8. Lardinois, Frederic. January 19, 2010. "Tweak the Tweet: New Twitter Hashtag Syntax for Sharing Information During Catastrophes." *Tech News Daily/ReadWriteWeb*.
http://readwrite.com/2010/01/19/a_new_twitter_hashtag_syntax_to_help_during_catast

OTHER SCHOLARLY ACTIVITY

Invited talks, lectures and seminars.

1. Carnegie Mellon University, Invited Speaker at the Crowdsourcing Seminar. Emergent Crowdwork during Crisis Events, November 11, 2014.
2. 2014 Washington Emergency Public Information Network (WEPIN) Workshop, Invited Speaker. *Tracking how Rumors Spread through Social Media during Crisis Events*, September 22, 2014.
3. Collective Intelligence 2014, MIT, Cambridge, MA, Invited Speaker, *Crowdwork during Crisis: Designing for Emergent Collaborations*, June 12, 2014.
4. Get the Word Out: Emergency Messaging to Vulnerable Populations Workshop, Tukwila, WA, Keynote Speaker, *Crises, Crowds & Online Convergence: Social Media Use during Disasters*, March 20, 2014.
5. University of Washington, Institute for Health Metrics and Evaluation at the University of Washington, *Crowds, Crisis and Convergence: Crowdsourcing in the Context of Disasters*, February 5, 2014.
6. Northwestern University, Technology & Social Behavior Distinguished Colloquium Speaker Series, *Crises, Crowds and Online Convergence: Crowdsourcing in the Context of Disasters*, November 21, 2013.
7. University of Washington, Engineering for Society Seminar, *Crises, Crowds and Online Convergence: Crowdsourcing in the Context of Disasters*, November 13, 2013.
8. National Academy of Engineering, 2013 U.S. Frontiers of Engineering Symposium, Wilmington, Delaware, *Crises, Crowds and Online Convergence: Crowdsourcing in the Context of Disasters*, September 19-21, 2013.
9. University of Washington, Presentation for College of Engineering Visiting Committee, *Crowdwork, Crisis & Convergence: Understanding Productive Crowdwork during Mass Disruption Events*, November 2012.
10. University of Washington, Biomedical & Health Informatics Lecture Series, *Crowdwork, Crisis & Convergence: Understanding Productive Crowdwork during Mass Disruption Events*, November 2012.
11. University of Washington, Seminar on Current Issues in Human Centered Design & Engineering, *Crowds, Crisis & Convergence: Unpacking Crowdsourcing in the Context of Disaster*, November 2012.
12. Stanford University, *Crowds, Crisis & Convergence: Unpacking Crowdsourcing in the Context of Disaster*, October 2012.
13. Indiana University–Bloomington, *Crowd Computation: How the Crowd Works to Organize Information during Mass Disruption Events*, February 2012.

14. ZiF-Research Group, Bielefeld, Germany. *Digital Volunteerism: How Social Media Enables and Structures Collective Action during Disaster*. Presented to ZiF-Research Group Closing Conference for Communicating Disaster. January 26, 2012.
15. University of California San Diego, presented to undergraduate course Cognitive Science: Distributed Cognition. *Crowd Computation: Information Organizing by Digital Volunteers during Mass Disruption Events*. October 18, 2011.
16. University of Colorado, Engineering Advisory Council Meeting. *Social Media during Crisis: From Big Data to Information*. April 29, 2011.
17. University of Colorado, Computer Science Colloquium. *More than the Usual Suspects: The Physical Self and Other Resources for Learning to Program Using a 3D Avatar Environment*. April 14, 2011.
18. University of Washington, DUB Talk. *ICT and Critical Environments*. Presented with Leysia Palen, July 15, 2009.

Invited panels.

1. AAAS Annual Meeting, San Jose, CA. Panel on Data Quality Practice in Citizen Science: Calibrating a New Kind of Instrument at *Citizen Science 2015 Workshop*, February 12, 2015.
2. Microsoft Faculty Summit in Conjunction with the UW iSchool, Bellevue, WA. Panel on Social Computing Challenges at *Toward a Smarter Society: The Role of Computational Social Science*, July 17, 2013.
3. DARPA-ISAT Workshop, Los Angeles, CA. Panel on Motivating Scenarios and Use Cases at *Information Science and Technology (ISAT) Workshop on Technology Affordances for Civilian Transparency (TACT)*, January 23, 2013.
4. Woodrow Wilson International Center for Scholars, Washington D.C. Panel on Crowdsourced Data Quality at *Connecting Grassroots to Government for Disaster Management*. September, 2012.
5. American Red Cross, Washington D.C. Panel on Social Data and Emergency Communications at *Red Cross Emergency Data Summit*, August 12, 2010. (Broadcast and archived on C-SPAN)
6. University of Illinois at Urbana-Champaign, IL. Panel on The Great Debate: Be-Geek or De-Geek? at