KATE STARBIRD
The ATLAS Institute
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Education

PhD Candidate, ATLAS Institute, University of Colorado, Boulder (Aug 2007-present, expected 2012)
Technology, Media and Society Program

- *Graduate Advisor*: Professor Leysia Palen, Department of Computer Science
- *Committee*: Aaron Clauset, Edwin Hutchins (UCSD), Michele Jackson, Clayton Lewis
- NSF Graduate Research Fellowship Award (2009-2012)

Bachelor of Science in Computer Science, Stanford University (1993-1997)

- Athletic scholarship – Women's Basketball (1993-1997)
- Naismith Women's College Basketball Player of the Year (1997)
- All-America Basketball Player (1996, 1997)
- Pac-10 Conference All-Academic (1995, 1996, 1997)
- Co-SIDA Academic All-America (1996)

Research Interests

Human-computer interaction (HCI); computer-supported cooperative work (CSCW); crisis informatics; social media; crowdsourcing; human computation; information visualization; end-user programming; computer science education

Research Honors and Awards

Research Fellowships

- NSF Graduate Research Fellowship (2009-2012)
- ATLAS Graduate Research Fellowship (2007-2008)

Conference Awards

- Honorable Mention Award: Best Paper, CHI 2011:
  "Voluntweeters": Self-Organizing by Digital Volunteers in Times of Crisis
- Honorable Mention Award: Best Paper**,** CSCW 2010:
  Chatter on The Red: What Hazards Threat Reveals about the Social Life of Microblogged Information
- Runner-up for Best Hack, Random Hacks of Kindness (RHOK#0) (November 13-14, 2009) For presentation:
  "Tweak the Tweet"

Doctoral Colloquium

- Doctoral Colloquium invitee, CSCW 2012, Seattle, WA (February 12-13).

Publications and Posters

Highly Competitive Long Conference Publications, Reviewed in Full

Starbird, Kate and Leysia Palen. (2012, to appear). (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.

Sarcevic, Aleksandra, Leysia Palen, Joanne White, Kate Starbird, Mossaab Bagdouri, and Kenneth Anderson. (2012, to appear). "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.

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. **(26% acceptance rate. Honorable Mention Award, top 5%)**

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. **(20% acceptance rate. Honorable Mention for "Best of CSCW," top 5%)**

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. **(22% acceptance rate)**

Other Refereed Conference Publications, Reviewed in Full

Starbird, Kate, Grace Muzny and Leysia Palen. (2012, forthcoming). Identifying On-the-Ground Twitterers During Mass Disruption Events Using Traces of Social Behavior from the "Crowd." Submitted to *2012 Information Systems for Crisis Response and Management Conference (ISCRAM 2012)*, Vancouver, Canada.

Starbird, Kate. (2012, forthcoming). What "Crowdsourcing" Obscures: Exposing the Dynamics of Connected Crowd Work During Disaster. Submitted to *Collective Intelligence 2012*, Cambridge, MA.

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.

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 (Nominated for Best Paper).

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.

Prosser, Rachel and Kate Starbird. Examining the Use of Code-Switching in Bilingual Text Messages of High School Latina Girls. (2009). Presented at *American Education Research Association Annual Meeting (AERA 2009)*. San Diego, CA.

Starbird, Kate, Jim Arnow, and Yingdan Huang. (2008). 3DGeoboard: Designing a Tangible Computing Interface for Educational Spaces. Presented at *Colorado Celebration of Women in Computing (CCWIC 2008)*. Boulder, Colorado.

Book Chapters and Other Articles

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.

Leysia Palen, 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, 36*(5) pages 13–17, June/July 2010.

Poster and Workshops

Starbird, Kate. (2012). Digital Volunteerism: Examining Connected Crowd Work During Mass Disruption Events. Submitted to CSCW'12 Workshop on Crisis Informatics and Collaboration at the *2010 Conference on Computer Supported Cooperative Work (CSCW 2012*), Seattle, WA.

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.

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.

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.

Starbird, Kate. (2008). E-Data Visualization for Qualitative Research. Interactive Poster presented at *2008 Conference on Computer Supported Cooperative Work (CSCW 2008)*, San Diego, CA.

Invited Talks, Guest Lectures and Panels

Invited Panelist

Technologies and Social Media for Dealing with Disasters. Panel at *ZiF-Research Group Closing Conference for Communicating Disaster*. January 27, 2012. Bielefeld, Germany.

Social Data and Emergency Communications. Panel at *Red Cross Emergency Data Summit*, August 12, 2010. Washington DC. (Broadcast and archived on C-SPAN)

The Great Debate: Be-Geek or De-Geek? Panel at *National Center for Women in Information Technology (NCWIT) Conference*, May 15, 2008. University of Illinois at Urbana-Champaign, IL.

Invited Talks and Guest Lectures

"Digital Volunteerism: How Social Media Enables and Structures Collective Action during Disaster" Presented at *ZiF-Research Group Closing Conference for Communicating Disaster*: *Dealing with the Disasters of Others.* January 27, 2012. Bielefeld, Germany.

"Crowd Computation: Information Organizing by Digital Volunteers during Mass Disruption Events" Presented to UCSD undergraduate course: Cognitive Science: Distributed Cognition, San Diego, CA (October 18, 2011).

"Social Media during Crisis: From Big Data to Information" Presented to University of Colorado Engineering Advisory Council Meeting, Boulder, CO (April 29, 2011).

"The Use of Social Media during Crises" Presented to International Affairs Undergraduate Course: Global Issues and International Affairs, Boulder, CO (April 27, 2011).

"More than the Usual Suspects: The Physical Self and Other Resources for Learning to Program Using a 3D Avatar Environment" Presented at the University of Colorado CS Colloquium, Boulder, CO (April 14, 2011). Recording available at: http://vimeo.com/22963884

"Tweaking Tweets for the Boulder Fire" Presented with Sophia Liu to the ATLAS Institute Advisory Board at the University of Colorado, Boulder, CO (September 21, 2010)

"ICT and Critical Environments" Presented with Sarah Vieweg to Computer Science Undergraduate Course: Digital and Social Systems, Boulder, CO (September 18, 2009)

"ICT and Critical Environments" Presented with Leysia Palen at DUB Talk, University of Washington, Seattle, WA (July 15, 2009)

Teaching Experience

Teaching Assistant

- User Interaction Design (Spring 2009, Spring 2010)
- HCI Survey & Synthesis (Spring 2012)

Teaching Computer Programming to Novices

- CU High School Honors Institute – Guest Instructor, University of Colorado (July 26-27, 2010)
- Introductory Computer Programming – Guest Instructor, Westview Middle School, Longmont CO (September 8, 2011)

Professional Service

Board Member – ATLAS Institute Advisory Board, University of Colorado

- Student Representative (Spring 2009-present)

Reviewing – Conference & Journals

- Computer Supported Cooperative Work Conference (CSCW) 2012
- Conference on Human Factors in Computing Systems (CHI) 2010, 2012
- Information Systems for Crisis Response and Management (ISCRAM) 2010, 2011, 2012
- Journal of Homeland Security and Emergency Management 2010, 2011
- Natural Hazards Journal 2011
- Conference on Tangible, Embedded, and Embodied Interaction (TEI) 2012

Other

- Reviewer for 2011-2012 Colorado Affiliate of the NCWIT Aspirations in Computing Award

Select Mentions of Research in Popular News Media

"Ushahidi, How to Crowdmap a Disaster." CNN (Oct 25, 2010)

"Heading off Disaster, One Tweet at a Time." CNN (Sept 22, 2010)

"Evacuees use Social Media to Keep Up on Boulder Wildfire Disaster Developments." Denver Post (Sept 9, 2010)

"Boulder Fire Stokes Community through Social Media." Huffington Post (Sept 8, 2010)

"Tweaking Tweets to Help in Haiti." Discovery News (Jan 22, 2010)

"Texts, Tweets Saving Haitians from the Rubble." Wired – Danger Room (Jan 21, 2010)

"Tweak the Tweet: New Twitter Hashtag Syntax for Sharing Information During Catastrophes." Tech News Daily/ReadWriteWeb (Jan 19, 2010)

"'Tweak the Tweet' Wins Second Place Technology Award for CU Graduate Student." Boulder Daily Camera. (Dec 3, 2009)

"Hackers Create Tools for Disaster Relief." CNET (Nov 15, 2009)

Professional Experience

University of Colorado, Boulder

TA, User Interaction Design Class (Spring 2009, Spring 2010)
Research Assistant (August 2008-August 2009)

Three-Headed Cyclops Inc (now AEPX) – Palo Alto, CA (1999-2006)

Co-founded this computer graphics company, focused on realistic 3D graphics. Built 3D models and created a 3D modeling interface for a proprietary software rendering engine. Conducted research and built an interface for modeling human motion using 3D graphics.

South Park Community Center – Seattle, WA (2006)

Volunteered as a coach and a tutor. Ran basketball and soccer clinics for middle school and high school girls.

Professional Basketball Player (Abroad) (2001-2006)

Played an extended tour in China, one season each in Austria & France, and three seasons in Spain. Did media interviews and appearances.

Professional Basketball Player (WNBA) (1999-2004)

Competed and did community outreach for teams in Sacramento, Utah, Indiana, and Seattle. Did TV commercials. Coached clinics. Spoke to sponsors.

Sponsored Athlete for Nike, Baden, Trace Athletics (1997-2000)

Represented companies/brands at sponsored events. Did TV commercials. Coached clinics.

Professional Basketball Player (ABL – Seattle Reign) (1997-98)

Competed and did extensive community outreach. Met with corporate sponsors. Communicated with media. Coached clinics. Spoke at schools and other community events. Represented the team as an envoy to the Washington State Girl Scouts and the Special Olympics.

References

Leysia Palen
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