

SOPHIA B. LIU, PH.D.

<http://sophiabliu.com>

U.S. Geological Survey
1711 Illinois Street, Room 543, Golden, Colorado 80401-1865 (physical)
Denver Federal Center, Box 25046, MS 966, Denver, CO 80225 (mailing)

sophialiu@usgs.gov
303-273-8649 (work)
630-729-4216 (cell)

EDUCATION

University of Colorado at Boulder (CU-Boulder) (August 2005 – May 2011)

Doctor of Philosophy (Ph.D.): *Technology, Media and Society* interdisciplinary program

Alliance for Technology, Learning and Society (ATLAS) Institute

Graduate Advisor: Professor Leysia Palen, Department of Computer Science

Dissertation Title: “Grassroots Heritage: A Multi-Method Investigation of How Social Media Sustains the Living Heritage of Historic Crises”

University of California at Irvine (UC-Irvine) (September 2000 – September 2004)

Bachelors of Arts (B.A.): *Social Science* major specializing in *Research and Analytical Methods*

Double Minors: *Information and Computer Science; Digital Arts*

Honors Thesis: “You’ve Got IM: Instantaneous Communication Among University Students”

University of Sussex, UK (September 2003 – June 2004)

Education Abroad Program (EAP): Took courses in Geography and Cultural Studies

FELLOWSHIPS, AWARDS, AND HONORS

U.S. Geological Survey Mendenhall Postdoctoral Research Fellowship (November 2011 – October 2013)

Awarded a USGS Mendenhall Postdoctoral Research Fellowship awarded in June 2011

Research proposal entitled “Integrating Official and Crowdsourced Geographic Information Following Disasters: A Case Study of the 2010 Haiti Earthquake”

National Science Foundation Graduate Research Fellowship (June 2007 – June 2010)

Awarded the National Science Foundation (NSF) Graduate Research Fellowship in May 2006

Research proposal entitled “Public Expressions: Peer-to-Peer Communications in Response to Crises”

Best Student Paper Award for Information Systems for Crisis Response and Management Conference (May 2008)

Received the Mike Meleshkin Award for Best Student Paper tied for three co-authored papers (see Publications)

University of California at Irvine (September 2000 – June 2004)

Graduated with a *Magna Cum Laude* award and on the *Dean’s Honor List* for all quarters at UC-Irvine

Accepted into the *Social Sciences Honors Program* and the *Undergraduate Research Opportunities Program* (UROP)

PROFESSIONAL RESEARCH EXPERIENCE

Project EPIC and Connectivity Lab at University of Colorado, Boulder (January 2007 – May 2011)

Graduate Research Assistant for Professor Leysia Palen conducting research in the area of Crisis Informatics

Funded by an NSF Career Grant on *Data in Disaster: Socio-technical Change in Response Agency and Public Communications* & a multi-disciplinary, multi-university and multi-lingual \$2.8M NSF Grant on *Widescale Computer-Mediated Communication in Crisis Response: Roles, Trust & Accuracy in the Social Distribution of Information*

Natural Hazards Center at University of Colorado, Boulder (August 2005 – December 2006)

Graduate Research Assistant at the Natural Hazards Center for Professor Kathleen Tierney’s \$12.5 M NSF Grant on *Responding to Crises and Unexpected Events – Information Technology Research (RESCUE-ITR)* project working with computer scientists, engineers, social scientists & disaster experts on tech innovations for crisis response

IBM Almaden Research Center, San Jose, CA (June 2005 – August 2005)

Summer Intern for Dr. John Tang at the User Sciences and Experience Research (USER) group collecting field data on computer-mediated interaction among distributed teams using screen-recording software

University of California at Irvine (June 2003 – August 2003)

Undergraduate Research Assistant for Professor Paul Dourish at the School of Information and Computer Sciences

Conducted research on the use of instant messaging and conducted ethnographic research in a medical setting

RELEVANT PUBLICATIONS

- Liu, Sophia B. and Jen Ziemke. (2012). **From Cultures of Participation to the Rise of Crisis Mapping in a Networked World.** In Aaron Delwiche and Jennifer Henderson (Eds.), *The Routledge Handbook of Participatory Cultures*, New York: Routledge, pp. 251-273.
- Liu, Sophia B. (2012). **The Living Heritage of Historic Crises: Curating the Bhopal Disaster in the Social Media Landscape.** *interactions*, 19, 3, May + June 2012, pp. 20-24.
- Liu, Sophia B. (2011). **Grassroots Heritage: A Multi-Method Investigation of How Social Media Sustain the Living Heritage of Historic Crises.** PhD Dissertation, University of Colorado at Boulder.
- Liu, Sophia B., Leysia Palen, and Elisa Giaccardi. (2011). **Heritage Matters in Crisis Informatics: How Information and Communication Technology Can Support Legacies of Crisis Events.** In Christine Hagar (Ed.), *Crisis Information Management: Communication and Technologies*, Cambridge, UK: Woodhead Publishing Limited.
- Liu, Sophia B., Anahi Ayala Iacucci and Patrick Meier. (2010). **Ushahidi Haiti and Chile: Next Generation Crisis Mapping.** *American Congress on Surveying and Mapping (ACSM) Bulletin*, August, pp. 10-13.
- Liu, Sophia B. and Anahi Ayala Iacucci. (2010). **Crisis Map Mashups in a Participatory Age.** *American Congress on Surveying and Mapping (ACSM) Bulletin*, June, pp. 10-14.
- Liu, Sophia B. and Leysia Palen. (2010). **The New Cartographers: Crisis Map Mashups and the Emergence of Neogeographic Practice.** *Cartography and Geographic Information Science (CaGIS) Journal*, Special Issue: New Directions in Hazards and Disaster Research, 37 (1), pp. 69-90.
- Liu, Sophia B. and Leysia Palen. (2009). **Spatiotemporal Mashups: A Survey of Current Tools to Inform Next Generation Crisis Support Tools.** *Proceedings of the 6th International Conference on Information Systems for Crisis Response and Management (ISCRAM 2009)*, J. Landgren & S. Jul (Eds.), Gothenburg, Sweden.
- Palen, Leysia, Sarah Vieweg, Sophia B. Liu, and Amanda 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: e-Social Science, Sage, 27 (4), pp. 467-480.
- Palen, Leysia and Sophia B. Liu (2007). **Citizen Communications in Crisis: Anticipating a Future of ICT-Supported Participation.** *Proceedings of the 25th ACM Conference on Human Factors in Computing Systems (CHI 2007)*, San Jose, CA, pp. 727-736. **(25% acceptance rate)**

PROFESSIONAL WORKSHOPS, SEMINARS, AND SUMMER SCHOOLS ATTENDED

- Mapping Democracy: Technology, Social Change, and Web 2.0 Conference, Boulder, CO** (September 8, 2011)
Attended conference organized by Joe Bryan at University of Colorado at Boulder
- Visualizing and Communicating Disaster Professional Seminar** (August – December 2010)
Invited to participate in the Visual Arts / Visual Science seminar, moderated by Professor Diane Sieber
Participants included CU faculty and graduate students in arts, humanities, engineering, and social and natural science
- Third Summer Research Institute for the Science of Sociotechnical Systems, Stevenson, WA** (June 13 – 17, 2010)
Invited to participate in the Consortium for the Science of Sociotechnical Systems (CSST) Research Institute
- NSF Communicating Science: Tools for Scientists and Engineers Workshop, Boulder, CO** (April 29, 2010)
Attended workshop hosted by American Association for the Advancement of Science (AAAS) and National Science Foundation (NSF) at University Corporation for Atmospheric Research (UCAR), Boulder, CO
- NSF Cyberinfrastructure Resources Workshop, Boulder, CO** (October 17, 2007)
Invited to a workshop for National Science Foundation (NSF) Graduate Research Fellows that took place on the Access Grid at the National Center for Atmospheric Research (NCAR), Boulder, CO
- First ISCRAM-TIEMS Summer School, Tilburg, Netherlands** (June 14 – 22, 2006)
Attended the first Information Systems for Crisis Response and Management – The International Emergency Management Society (ISCRAM–TIEMS) Summer School at Tilburg University
- 2006 Workshop on Customized Information Dissemination for Real-Time Seismic Alerts** (May 26, 2006)
Organized and participated in a workshop for engineers, earth scientists, social scientists, computer scientists, policy experts, private organizations and potential consumers of earthquake alerts to discuss the technological and social issues of rapid information dissemination of seismic alerts in the greater Los Angeles, California area