MELISSA BICA

University of Colorado Boulder, Ph.D. Candidate in Computer Science
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EDUCATION

Ph.D., Computer Science, University of Colorado Boulder   expected 2019
    Advisor: Leysia Palen
    NSF Graduate Research Fellow
    Research interests: human-centered computing, social computing, crisis informatics

M.S., Computer Science, University of Colorado Boulder   2017

B.S., Computer Science and Engineering, Santa Clara University   2014
    Graduated *cum laude*

Study abroad, School of Informatics, University of Edinburgh, Scotland   Fall 2012

PUBLICATIONS

Rebecca E. Morss, Julie L. Demuth, Heather Lazrus, Leysia Palen, C. Michael Barton, Christopher A. Davis, Chris Snyder, Olga V. Wilhelmi, Kenneth M. Anderson, David A. Ahijevych, Jennings Anderson, **Melissa Bica**, Kathryn R. Fossell, Jennifer Henderson, Marina Kogan, Kevin Stowe, and Joshua Watts. (2017). **Hazardous Weather Prediction and Communication in the Modern Information Environment.** Bulletin of the American Meteorological Society.

Melissa Bica, Leysia Palen, and Chris Bopp. (2017). **Visual Representations of Disaster.** Proceedings of the 20th ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '17).

Jennings Anderson, Marina Kogan, **Melissa Bica**, Leysia Palen, Kenneth M. Anderson, Kevin Stowe, Rebecca Morss, Julie Demuth, Heather Lazrus, Olga Wilhelmi, and Jen Henderson. (2016). **Far Far Away in Far Rockaway: Responses to Risks and Impacts during Hurricane Sandy through First-Person Social Media Narratives.** Proceedings of the 13th International Conference on Information Systems for Crisis Response and Management (ISCRAM '16).

Kyoung-Sook Kim, **Melissa Bica**, Isao Kojima, and Hirotaka Ogawa. (2015). **RendezView: Look at Meanings of an Encounter Region over Local Social Flocks.** Proceedings of the 6th ACM SIGSPATIAL International Workshop on GeoStreaming.

POSTERS & WORKSHOP PAPERS

Melissa Bica. (2018). **Sensemaking Around Visual Hurricane Risk Messaging.** Workshop on Sensemaking in a Senseless World at the ACM Conference on Human Factors in Computing Systems (CHI '18). [Workshop Paper]

Melissa Bica. (2017). **Visual Representations of Disaster: Analysis of Disaster-Related Online Imagery.** CRA-W Grad Cohort Workshop. [Poster]

Melissa Bica and Jennings Anderson. (2016). **"You Are What You Tweet!" The Ethics of (Re) Publishing Public Data as Crafted Narratives.** Workshop on Ethical Encounters in HCI Research at the ACM Conference on Human Factors in Computing Systems (CHI '16). [Workshop Paper]

Melissa Bica and Kyoung-Sook Kim. (2015). **RendezView: An Interactive Visual Mining Tool for Discerning Flock Relationships in Social Media Data.** International Conference for High Performance Computing, Networking, Storage and Analysis (SC '15). [Poster]

PROFESSIONAL & RESEARCH EXPERIENCE

Oath Inc., Sunnyvale, CA, USA   Summer 2018
User Experience Research Intern, Yahoo! Mail

Microsoft Research, Redmond, WA, USA   Summer 2017
Research Intern, Business AI Design & Ethics group

National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan   Summer 2015
OSDC Partnership for International Research and Education Fellow

Santa Clara University Center for Science, Technology, & Society and Anudip   Feb. – Dec. 2013
Foundation, Kolkata, India
Global Social Benefit Fellow

Qualcomm Incorporated, San Diego, CA, USA   Summer 2012
Interim Engineering Intern

TEACHING EXPERIENCE

University of Colorado Boulder
Guest Lecturer for CSCI 4830: HCC Big Data Computing   Oct. 2015
Teaching Assistant for CSCI 1300: Introduction to Programming   Aug. 2014 – May 2015

Santa Clara University
Guest Lecturer for COEN 100: Undergraduate Research Seminar   May 23, 2018

SKILLS

Programming Languages & Tools: Python, HTML/CSS/JS, R, MATLAB, MongoDB, Jupyter Notebook, Tableau, QGIS

Methods: Visual content analysis, think-alouds, cognitive walkthroughs, user stories, interviews, ethnographic observation

AWARDS

National Science Foundation Graduate Research Fellowship   June 2016

Open Science Data Cloud Partnerships for International Research and Education   Apr. 2015
   (PIRE) Fellowship

Graduate Student Research Community Development Award   Oct. 2014

Dean's Fellowship (CU Boulder)   AY 2014 – 2015

Dean's List (Santa Clara University)   AY 2013 – 2014

Senior Design Presentation Session Award (Santa Clara University)   May 2014

IEEE Women in Engineering International Leadership Conference Scholarship   Apr. 2014

Upsilon Pi Epsilon Computing and Information Honor Society   Apr. 2014

Willem P. Roelandts and Maria Constantino-Roelandts Grant   Nov. 2013

Tau Beta Pi Engineering Honor Society   Oct. 2013

Grace Hopper Celebration of Women in Computing Scholarship   July 2013

Global Social Benefit Fellowship   Feb. 2013

Cisco-SCU Engineering Fellowship   May 2012

Richard Tapia Celebration of Diversity in Computing Scholarship   Apr. 2011

SERVICE

Reviewing: CHI 2017/18, ISCRAM 2017, CSCW 2017, Weather, Climate, and Society 2017

Student Volunteering: CHI 2017/16, SC 2015

Mentoring: Discovery Learning Apprenticeship – mentored 8 undergraduate researchers (Spring 2016)

PROFESSIONAL MEMBERSHIP

ACM, ACM-W, ACM Special Interest Group Computer-Human Interaction (SIGCHI), Colorado Virtual Operations Support Team (COVOST)