MELISSA BICA

University of Colorado Boulder, Computer Science

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EDUCATION

University of Colorado Boulder   2014 – present
Ph.D., Computer Science, third year student
- NSF Graduate Research Fellow advised by Professor Leysia Palen
- Research interests: human-centered computing, social computing, crisis informatics

Santa Clara University   2010 – 2014
B.S., Computer Science and Engineering
- Graduated *cum laude*

University of Edinburgh   Fall 2012
Study abroad, School of Informatics

PUBLICATIONS

Melissa Bica, Leysia Palen, and Chris Bopp. **Visual Representations of Disaster.** (In press). To appear in *Proceedings of the 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 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 AND WORKSHOP PAPERS

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]

TEACHING EXPERIENCE

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

OTHER EXPERIENCE

National Institute of Advanced Industrial Science and Technology   June – July 2015
OSDC PIRE Fellow
- Implemented an interactive data visualization interface in JavaScript, HTML, and CSS, called RendezView, for structuring geo-referenced social media data.

Center for Science, Technology, & Society (Santa Clara University)   February – December 2013

Global Social Benefit Fellow

- Conducted research for social enterprises Anudip and iMerit as part of this 9 month, academic action research fellowship including 7 weeks of field work in Kolkata, India.
- Developed curriculum and instructed women in HTML/CSS in a semi-rural iMerit center in Metiabruz.

Qualcomm Incorporated   June – August 2012

Interim Engineering Intern

- Developed automated Android system and graphics performance benchmark tests in Perl and Java.
- Improved efficiency by reducing time needed to perform tests and analyze results.

SKILLS

Programming Languages & Tools

- Python, HTML/CSS/JS, R, MATLAB, MongoDB, Jupyter Notebook, Tableau, QGIS

Methods

- Think-alouds, cognitive walkthroughs, personas/user stories, interviews, ethnographic observation, visual content analysis

AWARDS

National Science Foundation Graduate Research Fellowship	June 2016
Open Science Data Cloud Partnerships for International Research and Education (PIRE) Fellowship	April 2015
Graduate Student Research Community Development Award	October 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	April 2014
Upsilon Pi Epsilon Computing and Information Honor Society	April 2014
Willem P. Roelandts and Maria Constantino-Roelandts Grant	November 2013
Tau Beta Pi Engineering Honor Society	October 2013
Grace Hopper Celebration of Women in Computing Scholarship	July 2013
Global Social Benefit Fellowship	February 2013
Cisco-SCU Engineering Fellowship	May 2012
Richard Tapia Celebration of Diversity in Computing Scholarship	April 2011

SERVICE

Reviewer

- CSCW 2017, CHI 2017

Mentor

- Discovery Learning Apprenticeship, mentored 8 undergraduate researchers

PROFESSIONAL MEMBERSHIP

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