

MELISSA BICA

University of Colorado Boulder

Department of Computer Science • 430 UCB • University of Colorado • Boulder, CO 80309-0430

✉ melissa.bica@colorado.edu 🌐 www.melissabica.com

EDUCATION

- University of Colorado Boulder** 2014 – present
Ph.D., Computer Science, second year student
- Advisor: 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** September – December 2012
Study abroad, School of Informatics

PUBLICATIONS

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

- Bica, Melissa 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]**
- Bica, Melissa and Kyoung-Sook Kim. (2015). RendezView: An Interactive Visual Mining Tool for Discerning Flock Relationships in Social Media Data. Poster. 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 19, 2015
- Teaching Assistant for CSCI 1300: Introduction to Programming. August 2014 – May 2015

OTHER EXPERIENCE

- University of Colorado Boulder** August 2015 – present
- Research Assistant to Leysia Palen
- Investigating how images diffuse through social media during disaster using visualization and analysis techniques.

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.

AWARDS

Open Science Data Cloud PIRE Fellowship April 2015
Open Science Data Cloud

Graduate Student Research Community Development Award October 2014
CU Boulder Department of Computer Science

Dean's Fellowship AY 2014 – 2015
CU Boulder Department of Computer Science

Dean's List AY 2013 – 2014
Santa Clara University

Senior Design Presentation Session Award May 2014
Santa Clara University

IEEE Women in Engineering International Leadership Conference Scholarship April 2014
IEEE Santa Clara Valley Section

Upsilon Pi Epsilon Computing and Information Honor Society April 2014
Santa Clara University

Willem P. Roelandts and Maria Constantino-Roelandts Grant November 2013
Center for Science, Technology, and Society

Tau Beta Pi Engineering Honor Society October 2013
Santa Clara University

Grace Hopper Celebration of Women in Computing Scholarship July 2013
NSF

Global Social Benefit Fellowship February 2013
Santa Clara University

Cisco-SCU Engineering Fellowship May 2012
Santa Clara University

Richard Tapia Celebration of Diversity in Computing Scholarship April 2011
ACM

PROFESSIONAL SOCIETIES

ACM, ACM-W, ACM Special Interest Group Computer-Human Interaction (SIGCHI)