# 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

## 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

## 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 and 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.

## PUBLICATIONS

Anderson, J., Kogan, M., Bica, M., Palen, L., Anderson, K., Morss, R., Demuth, J., Lazrus, H., Wilhelmi, O., Henderson, J. (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 2016).

Kim, K-S., Bica, M., Kojima, I., and Ogawa, H. (2015). "RendezView: Look at Meanings of an Encounter Region over Local Social Flocks." *Proceedings of the 6th ACM SIGSPATIAL International Workshop on GeoStreaming*.

## PROFESSIONAL PRESENTATIONS

Bica, M. and Kim, K-S. (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 (Supercomputing 2015).

## PROFESSIONAL SOCIETIES

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