

# MELISSA BICA

University of Colorado Boulder, Computer Science

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## EDUCATION

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<b>Ph.D., Computer Science</b> University of Colorado Boulder Advisor: Leysia Palen NSF Graduate Research Fellow Research interests: human-centered computing, social computing, crisis informatics	expected 2019
<b>M.S., Computer Science</b> University of Colorado Boulder	2017
<b>B.S., Computer Science and Engineering</b> Santa Clara University Graduated <i>cum laude</i>	2014
Study abroad, School of Informatics University of Edinburgh, Scotland	Fall 2012

## PUBLICATIONS

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- 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 AND WORKSHOP PAPERS

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- 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

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### 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

## OTHER EXPERIENCE

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**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 Foundation**, Kolkata, India

Feb. – Dec. 2013

Global Social Benefit Fellow

**Qualcomm Incorporated**, San Diego, CA, USA

Summer 2012

Interim Engineering Intern

## SKILLS

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### 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

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National Science Foundation Graduate Research Fellowship

June 2016

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

Apr. 2015

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

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**Reviewing:** ISCRAM 2017, CSCW 2017, CHI 2017

**Mentoring:** Discovery Learning Apprenticeship, mentored 8 undergraduate researchers

## PROFESSIONAL MEMBERSHIP

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