

# MELISSA BICA

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

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- 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

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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 Hiroataka 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

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- 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

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<b>Microsoft Research</b> , Redmond, WA, USA Research Intern, Business AI Design & Ethics group	Summer 2017
<b>National Institute of Advanced Industrial Science and Technology</b> , Tsukuba, Japan OSDC Partnership for International Research and Education Fellow	Summer 2015
<b>Santa Clara University Center for Science, Technology, &amp; Society and Anudip Foundation</b> , Kolkata, India Global Social Benefit Fellow	Feb. – Dec. 2013
<b>Qualcomm Incorporated</b> , San Diego, CA, USA Interim Engineering Intern	Summer 2012

## TEACHING EXPERIENCE

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

## SKILLS

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**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

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

**Student Volunteering:** CHI 2018/17/16, SC 2015

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

#### PROFESSIONAL MEMBERSHIP

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