

MELISSA BICA

Department of Computer Science
430 UCB

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EDUCATION

Ph.D. first year student, University of Colorado Boulder

Computer Science – Human-Centered Computing area

B.S., Santa Clara University, June 2014

Computer Science and Engineering
Graduated *cum laude* (GPA: 3.67)

Study abroad, University of Edinburgh, Fall 2012
School of Informatics

AWARDS

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

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

Senior Design Presentation Session Award

May 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
Santa Clara University

May 2012

Richard Tapia Celebration of Diversity in Computing Scholarship
ACM

April 2011

PROFESSIONAL EXPERIENCE

University of Colorado Boulder
Teaching Assistant

August 2014 – present

- Teaching two recitation sections and creating assignments for CSCI 1300: Introduction to Programming in Python and Java.
- Conducting grading interviews with about 50 students weekly for programming assignments.

Center for Science, Technology, & Society (Santa Clara University)
Global Social Benefit Fellow

February – December 2013

- 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
Interim Engineering Intern

June – August 2012

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

MANUSCRIPTS

Bica, Melissa, Elizabeth Donahue, and Silvia Figueira (2014). "Text to Learn": Enabling Job Training in Emerging Markets. *Proceedings of the 5th ACM Symposium on Computing for Development (DEV 2014)*, San Jose, CA, 2 page poster. (Submitted)

Bica, Melissa, and Elizabeth Donahue (2014). "Text To Learn": A Digital Training System for Global Social Enterprises. *B.S. Thesis, Santa Clara University*, 2014.

PROJECTS

Text to Learn – Senior Design Project

AY 2013 – 2014

- Digital training tool developed for social enterprises in emerging markets.
- Uses a web-based dashboard for trainers to send training materials via SMS to trainees' mobile phones.
- Won Best in Session at SCU's annual Senior Engineering Design Conference.
- Thesis: <https://scholarcommons.scu.edu/handle/11123/616>

Bridging the Information Gap

April – June 2013

- Collaborated with a team of eleven students to develop a mobile application for Community Technology Alliance to aid homeless people in finding local services, including food, shelter, jobs, and health services.
- Designed user interface using HTML and CSS to be compatible with feature phones.

PROFESSIONAL SOCIETIES

ACM & ACM-W (have held several officer positions)

ACM Special Interest Group Computer-Human Interaction (SIGCHI)