

MELISSA BICA

Department of Computer Science
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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

Dean's Fellowship

CU Boulder Department of Computer Science

AY 2014 – 2015

Dean's List

Santa Clara University

AY 2013 – 2014

IEEE Women in Engineering International Leadership Conference Scholarship

IEEE Santa Clara Valley Section

April 2014

Upsilon Pi Epsilon Computing and Information Honor Society

Santa Clara University

April 2014

Senior Design Presentation Session Award

Santa Clara University

May 2014

Willem P. Roelandts and Maria Constantino-Roelandts Grant

Center for Science, Technology, and Society

November 2013

Tau Beta Pi Engineering Honor Society

Santa Clara University

October 2013

Grace Hopper Celebration of Women in Computing Scholarship

NSF

July 2013

Global Social Benefit Fellowship

Santa Clara University

February 2013

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

August 2014 – present

Teaching Assistant

- 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)

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 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)