Curriculum Vitae

MELISSA BICA

Department of Computer Science
430 UCB
University of Colorado
Boulder, CO 80309-0430
melissa.bica@colorado.edu

www.linkedin.com/in/melissabica

EDUCATION

University of Colorado Boulder
Ph.D., Computer Science, first year student
- Advisor: Leysia Palen
- Research interests: human-centered computing, social computing, crisis informatics

Santa Clara University
B.S., Computer Science and Engineering, June 2014
- Graduated *cum laude* (GPA: 3.67)

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

AWARDS

Graduate Student Research Community Development Award CU Boulder Department of Computer Science	October 2014
Dean's Fellowship CU Boulder Department of Computer Science	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 IEEE Santa Clara Valley Section	April 2014
Upsilon Pi Epsilon Computing and Information Honor Society Santa Clara University	April 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   May 2012
Santa Clara University

Richard Tapia Celebration of Diversity in Computing Scholarship   April 2011
ACM

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 C++.
- 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)