

Elizabeth Bales

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Research Interests

Ubiquitous Computing with a focus on facilitating human communication through mobile technology.

Education

PhD *expected 2011*, University of California-San Diego.

Computer Science

Advisor: William Griswold

MS *2009*, University of California-San Diego.

Computer Science

Advisor: William Griswold

BS *2006*, University of Washington.

Computer Engineering, with a minor in dance.

Publications

Papers

E. Bales, T. Sohn, V. Setlur. **Planning, Apps, and the High-end Smartphone: Exploring the landscape of modern cross-device reaccess** (Accepted Pervasive 2011) San Francisco, CA. June 12-15, 2011

E. Bales, K. Li, W. Griswold. **CoupleVIBE: Mobile Implicit Communication to Improve Awareness for (Long-Distance) Couples** (Accepted CSCW 2011) Hangzhou, China. March 19-23, 2011

B. Simon, E. Bales, W. Griswold, S. Cooper. **Case Study: Faculty Professional Development Workshops for Information Diffusion** (Accepted SigCSE 2011) Dallas, Texas. March 9-12, 2011

E. Bales, W. Griswold, B. Simon, A. Hieber, M. Kelly, J. Lintern, D. Ouyang. **USE OF UBIQUITOUS PRESENTER: 2006-2009**. WIPTE 2009, Virginia Tech. October 12-13, 2009.

Posters and Extended Abstracts

T. Sohn, A. Battestini, H. Hori, E. Bales, V. Setlur, K. Mori. **Supporting Unplanned Activities Through Cross-Device Interaction**. Automotive UI. Pittsburgh, PA. November 11-12, 2010

Elizabeth Bales, Kevin Li, William Griswold. **CoupleVibe: supporting connectedness in long distance couples with location-based vibrotactile cues**. Ubicomp, Orlando FL. Sept 30-Oct 3, 2009.

Professional Experience

Research

University of California-San Diego, San Diego, California.

The project I am currently pursuing with Professor William Griswold involves exploring novel communication methods for mobile users. CoupleVibe, my first project in this space, uses vibrotactile communication on cell phones to share “nice to know” information between couples.

University of Washington, Seattle, Washington.

Worked with Professor Richard Anderson to create MiKi; a Tablet PC project for use in disaster situations. The MiKi project enables first responders to graphically communicate through shared maps.

Internships

Nokia Research, Palo Alto, CA (Feb-June 2010)

Studied and designed for cross-platform internet usage.

Google, Seattle, Washington (Summer 2008)

Designed and implementing tools to allow customers greater flexibility in website analysis.

Authorize.NET, Bellevue, Washington (Summer 2005)

As a summer intern I researched techniques to provide ActiveX-like technology for alternative web browser, and developed a prototype for the Firefox platform.

Teaching

University of California-San Diego, Computer Science and Engineering Department (2008-2010)

Senior TA for UCSD Computer Science Department.

2008-2009 academic year.

2009-2010 academic year.

COSMOS@University of California-San Diego, Computer Science and Engineering Department (Summer 2007)

Teaching assistant for Cosmos high school summer program. At Cosmos I worked with high school students introducing them to the exciting world of computer science through hands on activities and discussion.

University of California-San Diego, Computer Science and Engineering Department (2006-2008)

Teaching assistant for introductory programming course with Susan Marx for the 2006-2007 academic year and fall quarter of 2007-2008 academic year.

University of Washington, Computer Science and Engineering Department (2005-2006)

Teaching assistant for the senior level graphics course with professor Steve Seitz in spring 2006. I also had a yearlong teaching assistant position with the women in computing course in the 2005-2006 school year.

University of Washington, Computer Science and Engineering Department (2005)

Lab consultant for introductory programming lab in the winter of 2006.

Conferences and Workshops

Poster on vibrotactile location aware system CHIME workshop 2010
Presented on usage of Ubiquitous Presenter at WIPTE October 2009
Poster on noncommand mobile interfaces at Ubicomp October 2009
Presented on recruitment of undergraduate women at Grace Hopper September 2008
Demonstrated MiKi project at SBIM workshop in Riverside August 2007

Scholarship to CHIME workshop and CHI Conference 2010
Student Volunteer at UIST 2009
Scholarship to Ubicomp October 2009
Scholarship to CRA-W Grad Cohort 2008, 2009
Scholarship to Google Workshop for Women Engineers 2008
Scholarship to CRA-W/CDC Programming Languages Workshop May 2007

Awards

ACM-W Conference Scholarship Award 2009
For attending Ubicomp 2009

NSF Honorable Mention 2008
For proposal regarding early stage software engineering

Google Anita Borg Scholar 2008
Awarded scholarship for academic and service in Computer Science.

Microsoft Imagine Cup 2005
Submitted a prototype of the MiKi research project that enables first responders in a disaster to graphically communicate through shared maps. MiKi received the audience favorite award.

Microsoft Imagine Cup 2004
Submitted a Tablet PC application named Pigment that allows a presenter to add ink content to a presentation in a live setting. All ink added to the presentation is sent to audience members who have the option to view the ink on their own private copies of the presentation. Audience members also have the ability to create private ink notations on the presentation. Pigment received second place in region.

Service

Director for pilot mentorship program for freshman women (2008-2010)
President of Women in Computing at UCSD (2007-2010)
Invited Judge for Lego robotics competition for middle school students (November 2007, 2008, 2009)
Invited as a panelist for the OurCS Conference at Carnegie Mellon University (October 2007)

Citizenship

United States citizen

References

William Griswold—Professor in Computer Science and Engineering at University of California-San Diego.
(858) 534-6898 wgg@cs.ucsd.edu

Joseph Pasquale—Professor in Computer Science and Engineering, University of California-San Diego.
(858) 534-2673 pasquale@cs.ucsd.edu

David Notkin— Professor in Computer Science and Engineering at University of Washington.
(206) 685-3798 notkin@cs.washington.edu