

education

- M.S. **Human Centered Design & Engineering (HCDE)**
University of Washington, Seattle. Expected June 2012
- B.S. **HCDE: Human-Computer Interaction**
University of Washington, Seattle. Awarded August 2010

research statement

I am interested in using participatory research methods to design technologies to support education and civic engagement. Currently, I lead the design of an interface and integrated learning tools for an easy-to-use, low-cost ultrasound system for midwives in the developing world.

honors & awards

- Shobe Entrepreneurship Prize, \$10,000 May 2011
- NSF Graduate Research Fellowship, \$120,000 over three years Apr 2011
- HCDE Travel Grant Feb 2011
- UW Society of Women Engineers Outstanding Graduate Female Jan 2011
- HCDE Leadership and Engagement Award June 2010
- Sakson Diversity in Engineering Scholarship, \$2,500 2009 – 2010

publications

- **A. Hope**; W. Brunette; W. Gerard; J. Keh; L. Schlenke; R. Anderson; R. Nathan; B. Kolko. “The Midwife’s Assistant: Designing Integrated Learning Tools to Scaffold Ultrasound Practice.” Information and Communications Technologies for Development (ICTD), 2012. Mar 2012
- B. Kolko; **A. Hope**; W. Gerard; W. Brunette; R. Anderson; G. Borriello; R. Nathan. “Adapting Collaborative Radiological Practice to Low-Resource Environments.” Computer-Supported Cooperative Work (CSCW), 2012. Feb 2012
- W. Brunette; M. Hicks; **A. Hope**; G. Ruddy; R. Anderson; B. Kolko. “Reducing Maternal Mortality: An Ultrasound System for Village Midwives.” IEEE Global Humanitarian Tech. Conference (GHTC), 2011. Oct 2011
- **A. Hope**; W. Gerard; M. Hicks; W. Brunette; K. Saville; R. Anderson; G. Borriello; B. Kolko; R. Nathan. “Designing an Intelligent Medical Assistant for Diagnostic Ultrasound.” Intelligent User Interfaces for Developing Regions (IUI4DR) Workshop, 2011. Feb 2011

- W. Brunette; W. Gerard; M. Hicks; **A. Hope**; R. Anderson; G. Borriello; B. Kolko; R. Nathan. “Portable Antenatal Ultrasound Platform for Village Midwives.” ACM Computing for Development (DEV), 2010. Dec 2010

presentations

- **A. Hope**; K. MacCorkle; B. Kolko. “Leveraging Collaborative and Informal Learning Models to Increase Diversity and Foster Innovation Engineering Education.” 8th Annual Graduate Student Forum of Beihang University. Beijing, China. Oct 2011
- **A. Hope**; W. Gerard; M. Hicks; W. Brunette; R. Anderson; G. Borriello; B. Kolko; R. Nathan. “Designing an Intelligent Medical Assistant for Diagnostic Ultrasound.” IUI4DR workshop. Palo Alto, California. Feb 2011

research experience

- **Research Assistant for the Mobile Midwife’s Ultrasound Project.** Responsibilities include: interface design, conducting local and international fieldwork, leading publication efforts, and supervising undergraduate students. Funded by a Gates Grand Challenges in Global Health Grant. Jan 2012 – Apr 2012
June 2011 – Sept 2011
Jan 2011 – Apr 2011
- **Co-founder of Hackademia Research Group (with Beth Kolko).** Responsibilities include: participant recruitment, data collection, analysis, and reporting. Jan 2010 – present

teaching experience

- **Teaching Assistant for HCDE313: Intro to User Research.** Curriculum design for a 100-student lecture course. Starts Apr 2012
- **Instructor for HCDE418: User Experience Design.** Taught three lectures weekly, developed curriculum materials, graded assignments. Sept 2011 – Dec 2011
- **Teaching Assistant for CSE440: Introduction to Human-Computer Interaction Design (with James Fogarty).** Co-led weekly design studios, graded and provided feedback on group design projects. Apr 2011 – June 2011
- **Instructor for HCDE231: Introduction to Technical Communication.** Taught three lectures weekly, developed curriculum materials, graded assignments. Sept 2010 – Dec 2010

industry experience

- **User Experience Analyst at Razorfish.** Helped run focus groups and usability tests, designed interface mockups. Sept 2009 – Jan 2010

volunteer experience

- **Learning and Technology Center (LTC) Coordinator at Jubilee Women's Center.** Helped low-income and homeless women learn to use technology. Sept 2010 – June 2011
- **Resident Support Volunteer.** Rosehedge AIDS Housing & Healthcare. Assisted staff in providing quality palliative care to individuals living with HIV & AIDS. Apr 2007 – Oct 2008

service

- **CSCW 2012 Student Volunteer: Day Captain** Mar 2012
- **HCDE Discovery Days Coordinator.** Helped HCDE department coordinate exhibits and recruitment events for the UW College of Engineering Discovery Days outreach event. Apr 2010 – June 2010
- **Secretary of HCDE Student Association** Sept 2009 – June 2010

skills

- Languages: HTML/CSS (proficient), Javascript (proficient), Java (some experience)
- Design: Photoshop (proficient), Illustrator (proficient)
- Video: Final Cut Pro (some experience), Videography (some experience)

references

- Dr. Beth Kolko. Professor in Human Centered Design & Engineering. University of Washington, Seattle. 423 Sieg Hall. bkolko@u.washington.edu.
- Dr. Gaetano Borriello. Professor in Computer Science & Engineering. University of Washington, Seattle. Paul Allen Center 101. gaetano@cs.washington.edu.
- Dr. James Fogarty. Associate Professor in Computer Science & Engineering. University of Washington, Seattle. Paul Allen Center 101. jfogarty@cs.washington.edu.