Jen Fernquist

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Education

2010 **MSc**, *Computer Science*, University of British Columbia (UBC).
– Human-Computer Interaction

2007 **BSc (Honours)**, *Computing Science*, Simon Fraser University (SFU).
– Computing Science Major, Mathematics Minor
– Certificate of Liberal Arts

Experience

8/2011–now **User Experience Researcher**, *Google Inc.*
– Lead, design & execute user research for Android Wear, Google's wearables platform. Coordinate demanding incoming research requests plus UER-driven formative research.
– Software: conducting research for Wear's system UI, out-of-box experience, apps & gestures, directly impacting each
– Hardware: performed iterative, multi-stage research that continues to drive the direction of new watch hardware design
– Strategic & formative research, including large-scale dogfooding & field studies, that helps inform product direction
– Led user research for material design across Google, coordinating UXers & cross-company research
– On the Search team, designed & conducted user research for personal search & "my" queries such as [my flights]

1/2011–4/2011 **Research Intern**, *Autodesk Research*.
– Worked in the User Interface group, implemented & tested an extension to Sketchbook that taught users how to draw & use the application
– Work published at UIST 2011

2008–2010 **Research Assistant**, *Imager Lab*, UBC.
– Designed & implemented a multi-touch tabletop application in C# for Landscape Architects to conduct co-located, collaborative sustainable urban planning
– Conducted user observation session, gathered system requirements, & executed an iterative, user-centered development process
– Planned & carried out formal user study comparing single- & multi-touch versions of the neighbourhood design system
– Conducted data analysis with SPSS to measure the effect of number of touch inputs on collaboration & output quality

- Designed & developed educational game for a SMART Table; winning contest entry

2008 **Student**, *Physical Interfaces Graduate HCI Course*, UBC.
- Co-designed 6 groups of 6 melodic haptic icons for a Nokia 770T
- Conducted initial user study with 7 participants to test icon 'groupability'
- Analysed results, modified groupings accordingly & conducted second user study

2007 **Research Assistant**, *Medical Imaging Lab*, SFU.
- Developed a radiology application in C++ to scroll through MRI stacks with 200+ images
- Carried out a formal user study with 9 radiologists from UBC to compare 3 interaction techniques, including 1 novel technique
- Analyzed test data for quantitative & qualitative results

2007–2008 **Software Engineer**, *MacDonald Dettwiler & Associates*.
- Implemented new/updated requirements in C++ for aircraft procedure design software for the United States Air Force
- Calculated & developed geometry for aircraft dead-reckoning procedures
- Created/edited/reviewed test documents & conducted software testing
- Initiated application builds & maintained the build script in Perl

Research Skills

Lab studies, cog walks, survey design, heuristic evaluation, field research, interviews, affinity diagramming, card sorts, RITE, lit reviews, SPSS

Publications

2013 **Jennifer Fernquist, Ed H Chi**, *Perception and understanding of social annotations in web search*, WWW, 2013.

2011 **Jennifer Fernquist, Tovi Grossman, George Fitzmaurice**, *Sketch-sketch revolution: an engaging tutorial system for guided sketching and application learning*, UIST, 2011.

Jennifer Fernquist, Garth Shoemaker, Kellogg S Booth, *"Oh Snap"-Helping Users Align Digital Objects on Touch Interfaces*, INTERACT, 2011.

2010 **Jennifer Fernquist**, *A Collaborative Planning Support System for a Multi-Touch Tabletop: The Effect of Number of Touch Inputs on Collaboration and Output Quality*, Thesis for MSc, University of British Columbia, 2010.

2009 **Bradley A. Swerdfeger, Jennifer Fernquist, Thomas W. Hazelton and Karon E. MacLean**, *Exploring Melodic Variance in Rhythmic Haptic Stimulus Design*, Graphics Interface, 2009.

2008 **M. Stella Atkins, Jennifer Fernquist, Arthur E. Kirkpatrick, Bruce B. Forster**, *Evaluating User Interactions for Stack Mode Viewing*, Society for Imaging Informatics in Medicine Proceedings, Journal of Digital Imaging, 2008.

━━━━ Awards

2010	**CompSust10 Doctoral Consortium selected participant**, *$939USD*.
2010	**CRA-W Grad Cohort Workshop selected participant**, *$1000USD*.
2009	**1st place, ITS SMART Table Application Design Contest**, *$8000USD*.
2009–2010	**University Graduate Fellowship**, *$17000CAD*.
2009	**CRA-W Grad Cohort Workshop selected participant**, *$1200USD*.
2007	**Jade Project: Canadian Distributed Mentorship Project Award**, *$3500CAD*.
2007	**NSERC Undergraduate Student Research Award**, *$4500CAD*.
2006	**NSERC Undergraduate Student Research Award**, *$4500CAD*.
2006	**IEEE Bursary for Pre-College Recruitment**, *$1500USD*.
2006	**Grace Hopper Conference Full Scholarship**, *$1500USD*.
2006	**Canadian Federation of University Women Vancouver Award**, *$1000CAD*.
2006	**Mark & Nancy Brooks Computing Science Innovation Award**, *$800CAD*.
2004	**Computing Science Student Society Award**, *$2000CAD*.