

# Julia Schwarz

julia.schwarz@cs.cmu.edu  
http://www.juliaschwarz.net

Human-Computer Interaction Institute  
School of Computer Science  
Carnegie Mellon University

## EDUCATION

- P.h.D., Human Computer Interaction (3rd year)** 2009-Present  
School of Computer Science, Carnegie Mellon University, Pittsburgh, PA  
Advised by Scott Hudson and Jennifer Mankoff
- B.S., Computer Science with College Honors, Summa Cum Laude** 2004-2008  
University of Washington, Seattle, WA  
GPA 3.97/4.0

## PROFESSIONAL EXPERIENCE

- Microsoft Research** (Redmond, WA) *Research Intern* 2011  
Designed, developed and evaluated novel pointing techniques for Kinect.
- Microsoft Research** (Redmond, WA) *Research Intern* 2010  
Developed, evaluated visualization to help people assess credibility on web.
- Google** (Kirkland, WA) *Software Engineering Intern* 2009  
Developed live update pipeline as well as analysis tools for large data source.
- Carnegie Mellon University** (Pittsburgh, PA) *Research Intern* 2008  
Designed, developed novel tools for sensing human activity using financial data.
- Google** (Kirkland, WA) *Software Engineering Intern* 2008  
Built prototypes of next-gen search engine; developed rapid prototyping framework.
- Google** (Kirkland, WA) *Software Engineering Intern* 2007  
Designed, implemented a web API; developed an interactive JavaScript UI.
- University of Washington** (Seattle, WA) *Undergraduate Researcher* 2006-2007  
Built tool to identify RFID readers; developed location-aware Facebook application using RFID tags; built privacy-preserving features for collaborative education tool.
- University of Washington**(Seattle, WA) *Teaching Assistant* 2006-2007  
Led recitation sessions, graded homework for introductory programming course.

## PUBLICATIONS

Morris, M.R., Counts, S., Roseway, A., Hoff, A., and **Schwarz, J.** Tweeting is Believing? Understanding Microblog Credibility Perceptions. To appear in *Proceeding of the 15<sup>th</sup> Annual ACM Symposium on Computer Supported Cooperative Work* (Seattle, Washington, Febuary 12 – 15, 2012). CSCW '12. ACM, New York, NY.

**Schwarz, J.**, Mankoff, J., Hudson, S., Monte Carlo Methods for Managing Interactive State, Action and Feedback Under Uncertainty. *In Proceedings of 24<sup>th</sup> Annual ACM Symposium on User Interface Software and Technology* (Santa Barbara, California, October 16-19, 2011). UIST '11. ACM, New York, NY, 235 - 244.

Harrison, C., **Schwarz, J.** TapSense: Enhancing Finger Interaction on Touch Surfaces. *In Proceedings of 24<sup>th</sup> Annual ACM Symposium on User Interface Software and Technology* (Santa Barbara, California, October 16-19, 2011). UIST '11. ACM, New York, NY, 627 - 636.

**Schwarz, J.**, Ringel Morris, M., Augmenting Web Pages and Search Results to Support Credibility Assessment. *In Proceedings of the 29<sup>th</sup> Annual SIGCHI Conference on Human Factors in Computing Systems* (Vancouver, Canada, May 7 – 12, 2011). CHI '11. ACM, New York, NY, 1245 – 1254.

**Schwarz, J.**, Hudson, S., Mankoff, J., A Robust and Flexible Framework for Handling Inputs with Uncertainty. *In Proceedings of the 23<sup>rd</sup> Annual ACM Symposium on User Interface Software and Technology* (New York, New York, October 3 – 6, 2010). UIST'10. ACM, New York, NY, 47 - 56.

**Schwarz, J.**, Harrison, C., Hudson, S., and Mankoff, J. Cord Input: An Intuitive, High-Accuracy, Multi-Degree-of-Freedom Input Method for Mobile Devices. *In Proceedings of the 28<sup>th</sup> Annual SIGCHI Conference on Human Factors in Computing Systems* (Atlanta, Georgia, April 10 – 15, 2010). CHI'10. ACM, New York, NY, 1657-1660.

**Schwarz, J.**, Mankoff, J., and Matthews, H. S. Reflections of Everyday Activities in Spending Data. *In Proceedings of the 27<sup>th</sup> Annual SIGCHI Conference on Human Factors in Computing Systems* (Boston, Massachusetts, April 4 – 9, 2009). CHI '09. ACM New York, NY, 1737-1740.

## **AWARDS AND HONORS**

<b>Finalist, Microsoft PhD Fellowship</b>	2011
<b>First Place, UIST Student Innovation Contest</b> Team won “Most Useful” category for window manipulation using touch mouse	2011
<b>Grand Prize, Microsoft Intern Windows Phone 7 Application Contest</b> Developed application that uses face detection and audio feedback to help people take photos of themselves	2011
<b>Apple Women in Engineering Scholarship</b>	2011
<b>Selected for the UIST Doctoral Symposium</b> Selection based on impact of doctoral thesis work.	2010
<b>First Place, UIST Student Innovation Contest</b> Led team that developed in-air input device using pressure-sensitive keyboard.	2009
<b>NSF Graduate Research Fellow</b> Offers the nation’s research leaders of tomorrow exceptional funding.	2009-2012
<b>Finalist, Google Anita Borg Scholarship</b> National scholarship honoring women in computer science	2009

<b>Finalist, CRA Undergraduate Research Award</b>	2008-2009
Recognizes undergraduate students in who show outstanding research potential.	
<b>ARCS Scholar</b>	2009-2012
National organization awarding academically outstanding scientists.	
<b>Computer Science Outstanding Senior Award (University of Washington)</b>	2009
Honors top 3 seniors in computer science for exceptional undergraduate academics.	
<b>Finalist, President's Medal and Dean's Medal (University of Washington)</b>	2009
Honors top graduating senior for exceptional undergraduate academic performance.	
<b>Goldwater Scholar</b>	2006-2007
Supports American undergraduate students with outstanding potential.	
<b>Member, Phi Beta Kappa</b>	2007-Present
National Academic honor society.	
<b>Computer Science Award for Excellence (University of Washington)</b>	2007
For outstanding performance in computer science.	
<b>Presidential Freshman Medalist (University of Washington)</b>	2005
Awarded annually to the single highest achieving freshman among class of 9,000.	
<b>TEACHING</b>	
<b>Teaching</b>	
Instructor, Building user interface tools for the Web, Carnegie Mellon University.	2011
Teaching Assistant, Introduction to Media Programming, Carnegie Mellon University.	2011
Instructor, The Art and Science of Juggling, Carnegie Mellon University.	2011
Teaching Assistant, Introduction to Programming, University of Washington.	2006 - 2007
<b>SERVICE</b>	
<b>Reviewer</b>	
CHI 2011, UIST 2011, ICMI 2011, CHI 2012	
<b>INVITED PRESENTATIONS</b>	
<b>SIGGRAPH 2009 Emerging Technologies</b>	2009
Helped develop and present Scratch Input. New Orleans, LA.	
<b>OTHER ACTIVITIES</b>	
<b>Windows Phone 7 Applications</b>	2011-Present
Developed 6 applications for Windows Phone 7 (Babble, Riddler, Movie Trivia, Minehacker, Active Deals, Name My Tune) which collectively have been downloaded over 70,000 times.	
<b>Ski Training Director, Husky Winter Sports</b>	2008
Created curriculum, led training sessions. PSIA Certified Level 1 Ski Instructor.	
<b>President, Jugglers at UW</b>	2005-2008
Founded juggling club at University of Washington. Led meetings, performances.	