

K. KUKSENOK

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Updated: Dec 2015

Education

Ph.D. in Computer Science and Engineering from University of Washington (Expected: 2016)
Research: **Adoption and Adaptation of Programming Practices in Oceanography**
Advised by Cecilia Aragon (UW HCDE), James Fogarty (UW CSE)

M.Sci. in Computer Science and Engineering from University of Washington (2014)
Research: **Capturing How People Fix Errors Made by Machine Translation**
Advised by James Fogarty (UW CSE), Srinivas Bangalore (AT&T)

B.A. in Applied Mathematics; Computer Science from Oberlin College, OH USA (2010)
Research: **Online Resources in Chronic Illness Management**
Research advised by Jennifer Mankoff (Carnegie Mellon University HCII)

Research

- '13-'16 Adoption and Adaptation of Data Science in Oceanography
Qualitative Research. Advised by Cecilia Aragon, James Fogarty, Gina Neff
- 2014 Social Media and Multilingualism Online in Ukraine's Maidan Movements
Qualitative Research; Social Media Analysis. See reference: **(Kuksenok 2015)**
Central European University, supervised by Philip N. Howard.
- 2013 Systematic survey of social media research methods in 15 yrs of CSCW
- '11-'13 Developing machine learning method for identification of emotion expression in scientific collaboration chat logs. Advised by Cecilia Aragon (UW HCDE)
See references: **(Brooks, Kuksenok, et al 2013; Scott, Kuksenok, et al 2012)**
- '11-'12 Developing, testing web application for interactive machine translation
- '11-'12 Ethnographic study of tech and non-tech artifacts in intro language-learning classrooms. Supervised by Charlotte Lee (UW HCDE). See reference: **(Kuksenok et al 2013)**
- '09-'11 Mixed-methods study of chronic illness patients; trust; contradictory online health information. Supervised by Jennifer Mankoff (CMU HCII).
See refs: **(Kuksenok, Mankoff et al 2013; Mankoff, Kuksenok et al 2011)**
- 2008 Game-theoretic analysis, simulating social network formation. Advised by A. Sharp (Oberlin).

Peer-Reviewed Publications

Chen C, White L, Kowalewski T, Aggarwal R, Lintott C, Comstock B, Kuksenok K, Aragon C, Holst D, Lendvay T. Crowd-Sourced Assessment of Technical Skills: a novel method to evaluate surgical performance. *J Surgical Res.* 2014; 187(1): 65-71.

Kuksenok K, Brooks M, Wang Q, Lee C P. Challenges and Opportunities for Technology in Foreign Language Classrooms. *CHI 2013. Best Paper Honorable Mention (top 5%)*

Kuksenok K, Mankoff J, Brooks M. Accessible Online Content Creation by End Users. *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems.* ACM, 2013.

Brooks M, Kuksenok K, Torkildson M K, Perry D, Robinson J J, Scott T J, Anicello O, Zukowski A, Harris P, Aragon C. Statistical Affect Detection in Collaborative Chat. In *Proceedings of the 2013 conference on Computer supported cooperative work.* ACM, 2013.

Scott T J, Kuksenok K, Brooks M, Aragon C. Adapting Grounded Theory to Construct A Taxonomy of Affect in Collaborative Online Chat. *Proceedings of the 30th ACM international conference on Design of communication.* ACM, 2012.

Mankoff J, Kuksenok K, Kiesler S, Rode J, Waldman K. Competing Online Viewpoints and Models of Chronic Illness. *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems.* ACM, 2011.

Book Chapters

Kuksenok K. "Multilingualism on Social Media in the Maidan Movement." *Digital Eastern Europe.* Edited by Schreiber and Kosienkowski. 2015.

Invited Talks and Panel Appearances

2015 **Adoption and Adaptation of Software Practices in Oceanography** (Nov. 2015)
 Given at: the University of Washington, US and the University of British Columbia, CA
 Audience: mostly oceanographers, some software engineering researchers
 Video: vimeo.com/147646564

2014 **Social Media in Ukraine's Maidan Movement**
 Panel: Gawker Ping! conference in Budapest, Hungary (Aug. 2014)
 Presentation and panel: SOYUZ symposium on post-Soviet studies at UW (Feb. 2015)
 Panel video: <http://bit.ly/1MZcZKv> and related blog post: bit.ly/1jBGuaF

2012 **Helping Computers Find Meaning They Lost in Translation** (Mar. 2012)
 UW Science Speaker Series Talk at Town Hall Seattle
 Keynote at Washington State Junior Science and Humanities Symposium
 Abstract and audio: bit.ly/katiek-engage-talk

Data Collection, Manipulation, and Analysis Skills

Quantitative: iPython Notebook, crowdsourcing, relational DB design, SQL/postgres, R
 Qualitative: interviews, survey design, theory development
 User-centered design: design exercises, participatory design, synthesizing existing research
 Natural language processing: Python, nltk, moses, applying state-of-the-art NLP research
 Machine learning: Python, AWS, applying state-of-the-art ML research
 Visualization: applying visualization principles, Tableau, Processing, d3

Work Experience

- 2014 **User Researcher at Amazon.com Shared Shopping Experience** research, mixed methods. Conducted interviews to understand user values regarding social content on Amazon.com; performed qualitative analysis, followed by unsupervised learning, over user-generated content. Jan-Mar 2014; reference available upon request.
- 2013 **Software Engineering Intern at Google Seattle DoubleClick Search.** Built internal tool (Java) to experiment with novel attribution modeling methods.
- 2012 **Software Engineering Summer Intern at Facebook Seattle Platform Integrity.** Built internal tool (PHP, XHP) for quickly creating spam classifiers, using semi-supervised clustering and visualization techniques to identify useful features.
- 2011 **Research Summer Intern at AT&T Labs Speech Team** Built interactive machine translation web application for crowd-sourcing translation data using human-centered design.

Teaching and Mentorship

- '13-'14 **Research mentor** for 6 undergraduate and Masters' UW HCDE students working on the study of scientific creativity with Prof. Cecilia Aragon
- 2014 **Remixing User Research Methods** (approx. 10 graduate students)
 UW HCDE reading group leader
- 2014 **HCDE548 Advanced InfoVis** (approx. 10 graduate students)
 UW HCDE studio lead / co-instructor (with Prof. Cecilia Aragon)
- 2013 **CSE440 Intro to Human-Computer Interaction** (approx. 40 undergraduates)
 UW CSE co-instructor (with Dr. Morgan Dixon)
- '13-'14 **Research mentor and lead of Oberlin-UW Winter Term Research Program**
 total 4 undergraduates over 2 January terms, in 2013 and 2014

- '08-'10 **Competitive Computer Programming:** I created and taught this course for 5 semesters, with 5-12 students in the course each semester. It is still offered, still for 1 academic credit through the Oberlin Experimental College, still taught by students in order to build skills and momentum for successful participation in regional computer programming competitions. (total approx. 35 undergraduates)
- '06-'07 **Intro to Java Programming** Instructor at Andrew's Leap Program Carnegie Mellon University. (total approx. 30 high school students)

Fellowships, Honors, and Awards

- '14-'17 Fellowship: AT&T Labs Graduate Research Fellowship
- 2014 Residency: Center for Media and Data Studies, Central European University, Budapest
- '11-'14 Fellowship: NSF Graduate Research Fellowship
- '11-'13 Scholarship: Google Anita Borg Memorial Scholarship
Scholarship: Microsoft Research Graduate Women's Scholarship
Scholarship: Palantir Scholarship for Women in Technology - Finalist
- 2010 Fellowship: Anne Dinning - Michael Wolf Endowed Regental Fellowship in UW CSE
Award: CRA Outstanding Undergraduate Researcher Award - Honorable Mention
Award: NSF Graduate Research Fellowship Honorable Mention
- '07-'09 Scholarship: Grace Hopper Conference NSF Scholarship
Scholarship: NSF S-STEM Award for Computational Modeling
Scholarship: National Merit Finalist Scholarship
Scholarship: John F. Oberlin Scholarship

References

- Prof. James Fogarty (jfogarty@cs.uw.edu) - Ph.D. Advisor 2010-present
Assoc. Professor of Computer Science and Engineering at the University of Washington
- Prof. Cecilia Aragon (aragon@uw.edu) - Ph.D. Advisor 2011-present
Assoc. Professor of Human Centered Design and Engineering at the Univ. of Washington
- Prof. Gina Neff (gneff@cs.washington.edu) - Ph.D. Committee 2014-present
Assoc. Professor of Communication at the University of Washington
- Prof. Philip N. Howard (pnhoward@uw.edu) - Supervisor at CEU, 2014
Professor of Communication at the University of Washington
- Sam Rayachoti (samray@amazon.com) - Manager at Amazon.com SSX, 2014