K. KUKSENOK

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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 Available upon Request