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EDUCATION

STANFORD UNIVERSITY, STANFORD, CA

- Graduate Student, Computer Science 2015 (projected)
Advisor: Jeffrey Heer
 - Master of Arts, Philosophy 2006
Advisor: Marc Pauly
 - Bachelor of Science, Mathematics 2006
Minor in Symbolic Systems
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RESEARCH INTERESTS

Conducting visual and statistical analysis of human social behavior on the web.

KEYWORDS

Computational Social Science, Social Media, HCI, Data Science, Data Visualization, Web 2.0

RESEARCH EXPERIENCE

STANFORD UNIVERSITY COMPUTER SCIENCE DEPT., STANFORD, CA

2010 - PRESENT

GRADUATE STUDENT & RESEARCH ASSISTANT

With Professors Jeffrey Heer and Jure Leskovec, I have been exploring methods for visualizing and modeling human behavior using data from large online social networks and communities. Specific research topics have ranged from the development of novel methods for scaling visualizations of large networks [C1] to the analysis of group formation in large social networks [C3].

GOOGLE, INC., MOUNTAIN VIEW, CA

SUMMER, 2011

USER EXPERIENCE RESEARCH INTERN

Conducted early research on field trial deployment of Google+ to understand user behavior around *selective sharing* [C2]. Engaged in mixed-methods analysis combining quantitative log analysis with qualitative study of active users to identify factors which influence users to share and considerations around targeted audiences for shared content. Collaboration with Mike Brzozowski, Ed H. Chi, and David Huffaker.

PALO ALTO RESEARCH CENTER (PARC), PALO ALTO, CA

2008-2010

RESEARCH ASSISTANT, AUGMENTED SOCIAL COGNITION GROUP

Collaborated with Dr. Peter Pirolli and other members of ASC on a number of projects pertaining to individual and collective understanding of online information. Research topics included examining the effects of social interactions during online information seeking activities [P1, J2], designing information management tools for enterprise task force workers [C5, W3, W4], social information stream management [C4, C6, W2], and developing models of knowledge acquisition using content mined from social web systems [J2].

STANFORD UNIVERSITY PSYCHOLOGY DEPARTMENT, STANFORD, CA

SUMMER, 2004

RESEARCH ASSISTANT, STAR (SPACE, TIME, & ACTION RESEARCH) LAB

Worked under the mentorship of Dr. Barbara Tversky on multiple research studies with human subjects pertaining to gesturing, perspective-taking, and event segmentation. Collected data in the laboratory and field, utilizing methods ranging from surveys to think-aloud protocols to computer log data. Designed and implemented an original research project pertaining to physical perspective-taking and learning.

INDUSTRY EXPERIENCE

DELOITTE CONSULTING, SAN FRANCISCO, CA

2007

BUSINESS TECHNOLOGY ANALYST

Facilitated the implementation and support of SAP products, assisting with blueprinting and defining specifications for projects in the Energy Industry. Assessed client needs and requirements through data-gathering and fact-finding interviews, built reports and documentation, and communicated needs to help drive organizational change.

GOOGLE, INC., MOUNTAIN VIEW, CA

2006

SUPPORT ENGINEER AND PROCESS ANALYST

Acted as part of collaborative analysis team to proactively identify and mitigate abusive and fraudulent behavior on Google Ad products. Streamlined investigation process by refining existing procedural practices and contributed to proprietary monitoring tools and filters. Analyzed workflow data and conducted interviews with personnel to facilitate review process for the Google News team.

PUBLICATIONS

CONFERENCE PAPERS

- [C1] [Kairam, S.](#), MacLean, D., Savva, M., and Heer, J. (2012): GraphPrism: Compact Visualization of Network Structure. [To Appear] *AVI 2012: ACM Conference on Advanced Visual Interfaces*.
- [C2] [Kairam, S.](#), Brzozowski, M., Huffaker, D., and Chi, E.H. (2012): Talking in Circles: Selective Sharing in Google+. [To Appear] *CHI 2012: ACM Conference on Human Factors in Computing Systems*. 23% acceptance rate.
- [C3] [Kairam, S.](#), Wang, D.J., Leskovec, J. (2012): The Life and Death of Online Groups: Predicting Group Growth and Longevity. *WSDM 2012: ACM Conference on Web Search and Data Mining*. 21% acceptance rate.
- [C4] Bernstein, M.S., Suh, B., Hong, L., Chen, J., [Kairam, S.](#), and Chi, E.H. (2010): Eddi: Interactive Topic-Based Browsing of Social Status Streams. *UIST 2010: ACM Symposium on User Interface Software and Technology*. 18% acceptance rate.
- [C5] Convertino, G., [Kairam, S.](#), Hong, L., Suh, B., and Chi, E.H. (2010): Designing a Cross-Channel Information Management Tool for Workers in Enterprise Task Forces. *AVI 2010: ACM Conference on Advanced Visual Interfaces*. 20% acceptance rate.
- [C6] Hong, L., Convertino, G., Suh, B., Chi, E.H., and [Kairam, S.](#) (2010): FeedWinnow: Layering Structures Over Collections of Information Streams. *CHI 2010: ACM Conference on Human Factors in Computing Systems*. 22% acceptance rate.

POSTERS AND DEMONSTRATIONS

- [P1] Evans, B.M., [Kairam, S.](#), and Pirolli, P. (2009): Exploring the Cognitive Consequences of Social Search. *Extended Abstracts of CHI 2009: Work-in-progress*. **2nd Place, CHI Student Research Competition**.

JOURNAL ARTICLES

- [J1] Pirolli, P. and [Kairam, S.](#) (2012): A Knowledge Tracing Model of Learning from a Social Tagging System. [To Appear] *The Journal of User Modeling and User-Adapted Interaction (UMUAI)*.
- [J2] Evans, B.M., [Kairam, S.](#), and Pirolli, P. (2010): Do Your Friends Make You Smarter? An Analysis of Social Strategies in Online Information Seeking. *Information Processing and Management (IP&M)*, 46(6).

WORKSHOPS, PANELS, AND SIGS

- [W1] Bernstein, M., Cosley, D., DiSalvo, C., Kairam, S., Karger, D., Kriplean, T., Lampe, C., Mackay, W., Terveen, L., Wobbrock, J., and Yardi, S. (2012): Reject Me: Peer Review and SIGCHI. *CHI 2012 SIG* (May 2012).
- [W2] Bernstein, M., [Kairam, S.](#), Suh, B., Hong, L., and Chi, E.H. (2010): A Torrent of Tweets: Managing Information Overload in Online Social Streams. In *Proceedings of the 2010 CHI Workshop on Microblogging: What and How Can We Learn from It?* (April 2010).

- [W3] Convertino, G., Kairam, S., Chi, E.H., Grasso, A., Pirolli, P., Stricker, T., and Bascaran, E. (2010): Designing for Learning Communities in a Large Enterprise. *Proceedings of the 2010 CSCW Workshop on Collective Intelligence*. (February 2010).
- [W4] Convertino, G., Stricker, T., Kairam, S., et al. Learning Communities in a Large Enterprise. *Proceedings of the 3rd International Workshop on Building Technology Enhanced Learning Solutions for Communities of Practice (TEL-CoPs 2009)*. (September 2009).
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AWARDS AND SERVICE

AWARDS

- Finalist, Facebook Fellowship Program (2012)
- 2nd Place, Student Research Competition, ACM CHI Conference (2009)
- Stanford Asian American Award for Performing Arts (2006)

PROGRAM COMMITTEE

- CHI Video Showcase, (2011 - present)
- IJCAI (2011)

REVIEWER

- CHI (2011 - present)
- CHI Works-In-Progress (2010 – present)
- alt.chi (2010 – present)
- MobileHCI (2011 – present)
- DIS (2012 – present)
- APCHI (2012 – present)

STUDENT VOLUNTEER

- IUI (2011)

PROFESSIONAL ORGANIZATIONS

- Association for Computing Machinery (2009 - present)
- San Francisco Bay Area Chapter of ACM SIGCHI (2009 - present)
- IEEE Computer Society (2011 - present)

OTHER SERVICE

- *Editor*, CrowdResearch.org Blog (2011 – present)
 - *Organizer*, PARC Interdisciplinary Data Lunch (2009 - 2010)
 - *Event Coordinator*, Workshop on Technology Mediated Social Participation (2009)
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INVITED TALKS

- [T1] **TALKING IN CIRCLES: SELECTIVE SHARING IN GOOGLE+**
Google Bay Area PhD Summit (Jan. 20, 2012)
- [T2] **TALKING IN CIRCLES: SELECTIVE SHARING IN GOOGLE+**
Stanford Mobile & Social Workshop (Apr. 4, 2012)
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TEACHING

DATA VISUALIZATION (CS 448B), STANFORD

2011

TEACHING ASSISTANT WITH PROF. JEFFREY HEER

Guided student teams in quarter-long visualization design projects. Advised students in weekly office hours on principles of visualization design and implementation using JavaScript and D3. Graded multiple assignments in data visualization and exploratory data analysis, and contributed to course materials and lectures.