Sanjay R. Kairam

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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

Research Interests

Visualizing and modeling human behavior using data from large online social networks and communities.

Keywords

Computational Social Science, Social Networks, Social Media, 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 included analysis of group formation in large social networks and novel methods for scaling visualizations of large networks.

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*. 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, designing information management tools for enterprise task force workers, and developing models of knowledge acquisition using content mined from social web systems.

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

[1] Kairam, S., Brzozowski, M., Huffaker, D., and Chi, E.H. (2012): Talking in Circles: Selective Sharing in Google+. [Submitted to] *CHI 2012: ACM Conference on Human Factors in Computing Systems.*

[2] Kairam, S., Wang, D.J., Leskovec, J. (2012): The Life and Death of Online Groups: Predicting Group Growth and Longevity. [Submitted to] *WSDM 2012: ACM Conference on Web Search and Data Mining.*

[3] 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.

[4] 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.

[5] Hong, L., Convertino, G., Suh, B., Chi, E.H., and Kairam, S. (2010): FeedWinnower: Layering Structures Over Collections of Information Streams. *CHI 2010: ACM Conference on Human Factors in Computing Systems*. 22% acceptance rate.

Posters and Demonstrations

[1] 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, Student Research Competition.

Journal Articles

[1] Pirolli, P. and Kairam, S., (2012): A Knowledge Tracing Model of Learning from a Social Tagging System. [Accepted to] *The Journal of User Modeling and User-Adapted Interaction (UMUAI)*.

[2] 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)*.

Workshop Papers

[1] 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).

[2] 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).

[3] 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).

Awards and Service

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

- *Program Committee:* CHI Video Showcase, (2011), IJCAI (2011)
- *Reviewer:* CHI Student Research Competition (2010), Works-In-Progress (2010-2011), alt.chi (2010-2011), MobileHCI (2011)
- *Student Volunteer:* IUI (2011)
- *Member:* Association for Computing Machinery (2009-2011), San Francisco Bay Area Chapter of ACM SIGCHI (2009-2011), IEEE Computer Society (2011)

- *Organizer*, PARC Interdisciplinary Data Lunch (2009-2010)
- *Event Coordinator*, Workshop on Technology Mediated Social Participation (2009)