

Aniket Kittur

Human Computer Interaction Institute
School of Computer Science
Carnegie Mellon University
5000 Forbes Ave, Pittsburgh, PA 15213
Citizenship: U.S.A.

Office: 412.268.7505
Fax: 412.268.1266
Cell: 310.709.3437
Email: nkittur@cs.cmu.edu
Web: <http://kittur.org>

EDUCATION

Graduate

2002 - 2007. Ph.D., Cognitive Psychology / Quantitative, University of California, Los Angeles
Advisors: Keith Holyoak, John Hummel
Thesis topic: Feature-Based vs. Relational Category Learning: A Dual Process View

Undergraduate

1994 - 1998. B.A. (Honors), Psychology, Computer Science, Cognitive Science, Princeton University

POSITIONS

2009 - Assistant Professor, Human-Computer Interaction Institute, Carnegie Mellon University
2007 - 2009 Postdoctoral fellow, Human-Computer Interaction Institute, Carnegie Mellon University
2006 - 2008 Visiting researcher, Palo Alto Research Center
1999 - 2001 Senior interaction designer, Sapient Corporation
1998 - 1999 Senior engineer, Sapient Corporation

REFEREED PUBLICATIONS AND PROCEEDINGS

- Chau, D[*], **Kittur, A.**, Tong, H., Faloutsos, C., Hong, J. I. (under review). *SHIFTR: A Scalable, Generalized System for Ad Hoc Sensemaking of Large Graphs*.
- Kittur, A.**, Hummel, J. E., Holyoak, K. J. (under review). Learning and Inference with Relational Versus Feature-Based Categories.
- Halfaker, A.[*], **Kittur, A.**, Kraut, R. E., Riedl, J. (in press). Quality, Experience and Ownership in WikiWork. To appear in *WikiSym 2009: The International Symposium on Wikis and Open Collaboration*. New York: ACM Press. Acceptance rate: 34%
- Kittur, A.**, Pendleton, B.[*], Kraut, R. E. (in press). Herding the Cats: The Influence of Groups in Coordinating Peer Production. To appear in *WikiSym 2009: The International Symposium on Wikis and Open Collaboration*. New York: ACM Press. Acceptance rate: 34%
- Kittur, A.**, Lee, B.[*], Kraut, R. E. (2009). Coordination in Collective Intelligence: The Role of Team Structure and Task Interdependence. *CHI 2009: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. Acceptance rate: 24%
- Kittur, A.**, Suh, B., Chi, E. (2009). What's in Wikipedia? Mapping Topics and Conflict Using Collaboratively Annotated Category Links. *CHI 2009: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. Acceptance rate: 24%
- Kittur, A.**, Kraut, R. E. (2008). Harnessing the Wisdom of Crowds in Wikipedia: Quality Through Coordination. *CSCW 2008: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press. (**Best paper nomination**). Acceptance rate: 23%

- Kittur, A.**, Chi, E., Suh, B. (2008). Can You Ever Trust a Wiki? Impacting Perceived Trustworthiness in Wikipedia. *CSCW 2008: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press. (**Best paper award**). Acceptance rate: 23%
- Kittur, A.**, Chi, E., Suh, B. (2008). Crowdsourcing User Studies With Mechanical Turk. *CHI 2008: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. Acceptance rate: 18%
- Suh, B., Chi, E., **Kittur, A.**, Pendleton, B. (2008). Lifting the Veil: Improving Accountability and Social Transparency in Wikipedia with WikiDashboard. *CHI 2008: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. Acceptance rate: 18%
- Chi, E., Pirolli, P., Suh, B., **Kittur, A.**, Pendleton, B. A., Mytkowicz, T. (2008). Augmented Social Cognition. *Proceedings of AAAI Spring Symposium on Social Information Processing*. AAAI Press.
- Collier, B[*], Burke, M., **Kittur, A.**, Kraut, R.E. (2008). Retrospective Versus Prospective Evidence For Promotion: The Case Of Wikipedia. *Academy of Management (OCIS) Proceedings*. Anaheim.
- Suh, B., Chi, E., Pendleton, B. A., **Kittur, A.** (2007). Us vs. Them: Understanding Social Dynamics in Wikipedia with Revert Graph Visualizations. *VAST 2007: IEEE Symposium on Visual Analytics Science and Technology*.
- Kittur, A.**, Suh, B., Pendleton, B. A., Chi, E. (2007). He Says, She Says: Conflict and Coordination in Wikipedia. *CHI 2007: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. Acceptance rate: 25%
- Kittur, A.**, Chi, E., Pendleton, B. A., Suh, B., Mytkowicz, T. (2007). Power of the Few vs. Wisdom of the Crowd: Wikipedia and the Rise of the Bourgeoisie. *Alt.CHI, 2007*. San Jose, CA. Acceptance rate: 25%
- Kittur, A.**, Holyoak, K. J., & Hummel, J. E. (2006). Using Ideal Observers in Higher-order Human Category Learning. *Proceedings of the Twenty Eighth Annual Meeting of the Cognitive Science Society*. Vancouver, Canada. Acceptance rate (paper + presentation): 26%
- Kittur, A.**, Hummel, J. E., & Holyoak, K. J. (2006). Ideals Aren't Always Typical: Dissociating Goodness-of-Exemplar From Typicality Judgments. *Proceedings of the Twenty Eighth Annual Meeting of the Cognitive Science Society*. Vancouver, Canada. Acceptance rate (paper + oral): 26%
- Green, C., & **Kittur, A.** (2006). Retrieval-Induced Forgetting in a Multiple-Trace Memory Model. *Proceedings of the Twenty Eighth Annual Meeting of the Cognitive Science Society*. Vancouver, Canada. Acceptance rate (paper + poster): 72%
- Kittur, A.**, Hummel, J.E., & Holyoak, K.J. (2004). Feature- vs. Relation-Defined Categories: Probab(alistic)ly Not the Same. *Proceedings of the Twenty Sixth Annual Meeting of the Cognitive Science Society*. Chicago, IL. Acceptance rate (paper + presentation): 31%
- Green, C., & **Kittur, A.** (2004). A Multiple-Trace Memory Model Exhibiting Realistic Retrieval Dynamics. *Proceedings of the Twenty Sixth Annual Meeting of the Cognitive Science Society*. Chicago, IL. Acceptance rate (paper + poster): 72%
- Hummel, J.E., Holyoak, K.J., Green, C., Doumas, L.A.A., Devnich, D., **Kittur, A.**, & Kalar, D.J. (2004). A Solution to the Binding Problem for Compositional Connectionism. In S.D. Levy & R. Gayler: *Compositional Connectionism in Cognitive Science: Papers from the AAAI Fall Symposium*. Menlo Park, CA: AAAI Press.
- Lee, M. K., Borchelt, D. R., Kim, G., Thinakaran, G., Slunt, H. H., Ratovitski, T., Martin, L. J., **Kittur, A.**, Gandy, S., Levey, A. I., Jenkins, N., Copeland, N., Price, D. L., & Sisodia, S. S. (1997). Hyperaccumulation of FAD-linked presenilin 1 variants in vivo. *Nature Medicine*, 3, 756-60.

[*] Indicates mentee author

REFEREED PRESENTATIONS AND POSTERS

- Kittur, A.**, Chau, D., Hong, J., Faloutsos, C. (2009). Supporting Ad Hoc Sensemaking: Integrating Cognitive, HCI, and Data Mining Approaches. CHI 2009, Workshop on Sensemaking. Boston, MA.
- Chi, E., **Kittur, A.**, Mytkowicz, T., Pendleton, B., Suh, B. (January 2007). Augmented social cognition: Understanding social foraging and social sensemaking. HCIC, 2007. Fraser, CO.
- Kittur, A.**, Holyoak, K. J. (November 2006). Dissociating typicality and goodness judgments: Category-based differences. Poster presented at the 47th Annual Meeting of the Psychonomic Society, 2006. Houston, TX.
- Kittur, A.**, Hummel, J. E., Holyoak, K. J. (November 2005). Differential Effects of Working Memory Load on Encoding and Use of Relational Concepts. Poster presented at the 46th Annual Meeting of the Psychonomic Society, 2005. Toronto, Canada.
- Kittur, A.**, Holyoak, K. J., Hummel, J. E. (November 2005). Ideals and Typicality in Relational Categories: A Double Dissociation. Poster presented at the 46th Annual Meeting of the Psychonomic Society, 2005. Toronto, Canada.
- Kittur, A.**, Green, C., & Bjork, R.A. (July 2004). A Need Based Model of Human Memory Retrieval. Poster presented at the American Psychological Association Annual Meeting, 2004. Honolulu, HI.

PRESS

- “Tool Shows the Arguments Behind Wikipedia Entries.” Slashdot.org, February 2009, <http://news.slashdot.org/article.pl?sid=09/02/08/0116224>
- “Who’s Messing with Wikipedia?” Technology Review, February 2009, <http://www.technologyreview.com/web/22076/?a=f>
- “CMU Does Research on Cloud Computing”. ACM TechNews, December 2008.
- “Amazon’s Mechanical Turk Used for Fraudulent Activities”. ReadWriteWeb, August 2008, http://www.readwriteweb.com/archives/amazons_mechanical_turk_used_for_fraud.php
- “The Wisdom of the Chaperones”. Slate, February 2008, <http://www.slate.com/id/2184487/>
- “Wikimedia Pegs Future on Education, Not Profit”. San Francisco Chronicle, 2008
- “The More the Wikier”. Nature News, February 2007, <http://www.nature.com/news/2007/070226/full/070226-6.html>
- “How Companies Can Make the Most of User-Generated Content”. McKinsey Quarterly, 2007

INVITED TALKS

- “Higher Order Distributed Cognition”. University of Pittsburgh Learning Research and Development Center, 2008.
- “Understanding Large-Scale Social Collaborative Knowledge Building”. CMU HCII, 2007.
- “The dynamics of decision making: Categorization, memory, and social collaboration”. CMU Dynamic Decision Making Lab, 2007.
- “Conflict and power in collaborative knowledge systems: Understanding Wikipedia”. PARC ISL, 2007.
- “Harnessing Social Collaboration”. UCLA CogFog, 2007.
- “Understanding Collaborative Knowledge Systems: Wikipedia”. NASA Ames, 2006.

“Differences between relational and feature-based categories”. UCLA Cognitive Forum, 2006.

“Relation and Feature-Based Category Learning: A Dual-System View”. NASA Ames, 2005.

GRANTS, AWARDS AND FELLOWSHIPS

2008 - 2013	NIH R01: “The Cognitive Atlas: Developing an Interdisciplinary Knowledge Base Through Social Collaboration”. Co-authored with PI Russell Poldrack.
2008	Best note award, CSCW
2008	Best paper nomination, CSCW
2008	Research Institute for the Science of Socio-technical Systems Fellowship
2006, 2007	Palo Alto Research Center Summer Intern Fellowship
2005	UCLA Graduate Division Travel Award
2003 - 2006	National Science Foundation Graduate Research Fellowship
2003	UCLA Graduate Summer Research Mentor Fellowship
2002, 2007	Edwin Pauley Distinguished Fellowship
2002	UCLA Distinguished Achievement Fellowship

GRANTS UNDER REVIEW

“Coordination in Virtual Organizations”, NSF VOSS, PI with Robert Kraut

“University of Pittsburgh Cancer Institute (UPCI) Center for Translational Bioinformatics and Systems Cancer Biology”, NIH Center grant, co-PI

“Scaling Collaboration over Data and People”, NSF III Medium, co-PI with Sara Kiesler and Susan Fussell

“Best of Both Worlds — Information Visualization and Data Mining for Large Graphs”, NSF III Medium, co-PI with Christos Faloutsos and Jason Hong

“Training for Adaptive Thinking and Problem Solving”, ONR, submitted with Keith Holyoak, Eva Baker, Robert Morrison

“Coordination in Online Production Communities”, HP Innovation Research Program, submitted with Robert Kraut

PEER REVIEW ACTIVITIES

CSCW 2008 (Program Committee, 2008)
CHI 2007, 2008, 2009 (Video Program Committee, 2009)
WikiSym 2009 (Program Committee, 2009)
UIST 2009
OSS 2009
Cognitive Science Society 2004, 2005, 2006
Transactions on Computer-Human Interaction
International Journal of Human-Computer Studies
Human Computer Interaction
Journal of Computer Mediated Communication
Psychonomic Bulletin & Review

SERVICE

2008	FIRST LEGO Robotics Tournament (Judge, grades 6-8), National Robotics Engineering Center
2008	Chain Reaction Contraption Contest (Judge, grades 9-12), Carnegie Science Center

- 2006 - 2007 Diversity committee, Department of Psychology, UCLA
2004 - 2005 Cognitive forum speaker series organizer, Department of Psychology, UCLA

TEACHING EXPERIENCE

- 2008, 2009 Guest Lecturer, Computer-Mediated Communication, CMU
- 2006 Teaching Assistant, Psychology Research Methods, UCLA
- Independently instructed section in experimental and quantitative research methods
- 2004, 2006 Teaching Assistant, Neural Network Laboratory, UCLA
- Independently instructed section on neural network modeling
- 2002 - 2007 Research Assistant Supervisor, UCLA
- Mentored over 15 undergraduate research assistants, many of whom are now masters or graduate students in psychology and human computer interaction
- 2001 Instructor, Information Architecture Course, Sapient Corporation
- Developed and instructed course in practical information architecture
 - Designer and engineer graduates were immediately utilized in multidisciplinary projects
- 1997 Developer, Computational modeling course development, Princeton University
- Developed assignments for an advanced undergraduate course
 - Assignments included genetic drift, chemical equilibriums, and differential equations

INDUSTRY EXPERIENCE

1999 - 2001 Senior Information Designer, Sapient Corporation

- Designed novel information architectures for web-based projects, including the first commercial use of faceted tagging and prototypes of handheld wireless applications
- Clients include Hallmark, EXPN, wine.com, Thomas Weisel Partners, Scudder Capital, Conoco, Concentra, Prudential, Risk Management Solutions, Unibanco, AAA California
- Managed teams of up to 6 information designers, directed multidisciplinary projects involving >40 people including visual, information, content designers as well as software engineers

1998 - 2000 Senior Engineer, Sapient Corporation

- Implemented content management systems, ecommerce functionality, performance tuning, personalization engines, data migration, build and release processes
- Developed binding estimates and plans for sub-teams of 3-5 engineers

1999 - 2003 Founder, Co-Principal, Palm Tree Studios

- Managed and executed user research, information design, and visual design
- Clients include Williams Sonoma, Stryker Medical, OnTheSnow.com, City of Portland Triathlon, C3 Investments, Chemocentryx, Musselman Triathlon, Triathlon Informer, Neurocare CNY

REFERENCES

Dr. Keith J. Holyoak
Professor of Psychology, University of California, Los Angeles
holyoak@lifesci.ucla.edu

Dr. John E. Hummel
Professor of Psychology, University of Illinois, Urbana-Champaign
jhummel@psych.ucla.edu

Dr. Russell Poldrack
Professor of Psychology, University of California, Los Angeles
[poldrack at ucla.edu](mailto:poldrack@ucla.edu)

Dr. Ed H. Chi
Senior Research Scientist, Palo Alto Research Center
[ed.chi at parc.com](mailto:ed.chi@parc.com)

Dr. Stuart K. Card
Senior Research Fellow, Palo Alto Research Center
[stuart.card at parc.com](mailto:stuart.card@parc.com)

Dr. Robert Kraut
Herbert A. Simon Professor of Human-Computer Interaction, HCII, CMU
[robert.kraut at cmu.edu](mailto:robert.kraut@cmu.edu)

Dr. John Levine
Professor of Psychology, University of Pittsburgh
[jml at pitt.edu](mailto:jml@pitt.edu)