

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
Email: nkittur at 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

2013 - Cooper Siegel Chair, Carnegie Mellon University
2015 - Associate Professor, Human-Computer Interaction Institute, Carnegie Mellon University
2009 - 2015 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

JOURNAL PAPERS

1. Kittur, A. (2015). Corraling Crowd Power. *Communications of the ACM*, 58 (8), 84.
2. Zhu, H., Kraut, R.E., Kittur, A. (2013). Effectiveness of shared leadership in online communities. *Human Factors*. **Winner of 2013 Human Factors Prize**
3. Poldrack R.A., Kittur A., Kalar D., Miller E., Seppa C., Gil Y., Parker D.S., Sabb F.W., Bilder R.M. (2011). The Cognitive Atlas: Towards a knowledge foundation for cognitive neuroscience. *Frontiers in Neuroinformatics*.

CONFERENCE PROCEEDINGS

1. Hope, T., Chan, J., Kittur, A., Shahaf, D. (2017). Accelerating Innovation Through Analogy Mining. *KDD 2017: 23rd SIGKDD Conference on Knowledge Discovery and Data Mining*. **Best Paper (also Best Student Paper)**
2. Guo, Q., Kulkarni, C., Kittur, A., Bigham, J.P., Brunskill, E. (2016). Questimator: Generating Knowledge Assessments for Arbitrary Topics. *IJCAI-16: Proceedings of the AAAI Twenty-Fifth International Joint Conference on Artificial Intelligence*.
3. Chang, J.C., Hahn, N., Kittur, A. (2016). Supporting Mobile Sensemaking Through Intentionally Uncertain Highlighting. *UIST 2016: Proceedings of the ACM Symposium on User Interface Software and Technology*. New York: ACM Press.
4. Hahn, N., Chang, J. C., Kim, J., Kittur, A. (2016). The Knowledge Accelerator: Big Picture Thinking in Small Pieces. *CHI 2016: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. **Best Paper Honorable Mention**
5. Chang, J. C., Kittur, A., Hahn, N. (2016). Alloy: Clustering with Crowds and Computation. *CHI 2016: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. **Best Paper Honorable Mention**

6. Zhu, H., Das, S., Cao, Y., Yu, S., Kittur, A., Kraut, R.E. (2016). A Market in Your Social Network: The Effects of Extrinsic Rewards on Friendsourcing and Relationships. *CHI 2016: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. **Best Paper Honorable Mention**
7. Yu, L., Kittur, A., Kraut, R.E. (2016). Encouraging “Outside-the-box” Thinking in Crowd Innovation Through Identifying Domains of Expertise. *CSCW 2016: Proceedings of the ACM Conference on Computer Supported Cooperative Work*. New York: ACM Press.
8. Yu, L., Kraut, R.E., Kittur, A. (2016). Distributed Analogical Idea Generation with Multiple Constraints. *CSCW 2016: Proceedings of the ACM Conference on Computer Supported Cooperative Work*. New York: ACM Press.
9. Zhu, H., Kraut, R.E., Kittur, A. (2016). A Contingency View of Transferring and Adapting Best Practices within Online Communities. *CSCW 2016: Proceedings of the ACM Conference on Computer Supported Cooperative Work*. New York: ACM Press.
10. Kuznetsov, S., Kittur, A., Paulos, E. (2015). Biological Citizen Publics: Personal Genetics as a Site of Public Engagement with Science. *C&C 2015: Proceedings of the ACM SIGCHI Conference on Creativity and Cognition*. New York: ACM Press
11. Luther, K., Hahn, N., Dow, S.P., Kittur, A. (2015). Crowdlines: Supporting Synthesis of Diverse Information Sources through Crowdsourced Outlines. *HCOMP 2014: Proceedings of the AAAI Conference on Human Computation and Crowdsourcing*.
12. André, P., Kraut, R.E., Kittur, A. (2014). Effects of Simultaneous and Sequential Work Structures on Distributed Collaborative Interdependent Tasks. *CHI 2014: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press
13. Rzeszotarski, J., Kittur, A. (2014). Kinetica: Naturalistic Multi-touch Data Visualization. *CHI 2014: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. **Best Paper Honorable Mention**
14. Yu, L., Kittur, A., Kraut, R.E. (2014). Distributed Analogical Idea Generation: Inventing with Crowds. *CHI 2014: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. **Best Paper Honorable Mention**
15. Yu, L., Kittur, A., Kraut, R.E. (2014). Searching for Analogical Ideas with Crowds. *CHI 2014: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press
16. Zhu, H., Kraut, R.E., Kittur, A. (2014). The Impact of Membership Overlap on the Survival of Online Communities. *CHI 2014: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press.
17. André, P., Kittur, A., Dow, S.P. (2014). Crowd Synthesis: Extracting Categories and Clusters from Complex Data. *CSCW 2014: Proceedings of the ACM Conference on Computer Supported Cooperative Work*. New York: ACM Press.
18. Kittur, A., Peters, A.M., Diriye, A., Bove, M.R. (2014). Standing on the Schemas of Giants: Socially Augmented Information Foraging. *CSCW 2014: Proceedings of the ACM Conference on Computer Supported Cooperative Work*. New York: ACM Press.
19. Tausczik, Y.T., Kittur, A., Kraut, R.E. (2014). Collaborative problem solving: A study of MathOverflow. *CSCW2014: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press.
20. Yu, L., Andre, P., Kittur, A., Kraut, R.E., (2014). A comparison of social, learning, and financial strategies on crowd engagement and output quality. *CSCW 2014: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press.
21. Zhu, H., Dow, S.P., Kraut, R.E., Kittur, A. (2014). Reviewing versus Doing: Learning and Performance in Crowd Assessment. *CSCW 2014: Proceedings of the ACM 2014 conference on Computer Supported Cooperative Work*. New York: ACM Press.

22. Zhu, H., Kraut, R.E., Kittur, A. (2013). Effects of Peer Feedback on Contribution: A Field Experiment in Wikipedia. *CHI 2013: Proceedings of the 2013 annual conference on Human factors in computing systems*. New York: ACM Press. **Best paper honorable mention**
23. Kittur, A., Peters, A., Diriye, A., Telang, T., Bove, M. (2013). Costs and benefits of structured information foraging. *CHI 2013: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press.
24. Kittur, A., Nickerson, J.V., Bernstein, M.S., Gerber, E.M., Shaw, A., Zimmerman, J., Lease, M., Horton, J.J. (2013). The future of crowd work. *CSCW 2013: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press.
25. Towne, W.B., Kittur, A., Kinnaird, P., Herbsleb, J. (2013). Your process is showing: Controversy management and perceived quality in Wikipedia. *CSCW 2013: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press.
26. Rzeszotarski, J., Kittur, A. (2012). CrowdScape: Interactively visualizing user behavior and output. *UIST 2012: Proceedings of the ACM Symposium on User Interface Software and Technology*. New York: ACM Press. **Best paper award**
27. Fisher, K., Counts, S., Kittur, A. (2012). Distributed sensemaking: Improving sensemaking by leveraging the efforts of previous users. *CHI 2012: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. **Best paper honorable mention**
28. Zhu, H., Kraut, R.E., Kittur, A. (2012). Organizing without formal organization: Group identification, goal setting and social modeling in directing online production. *CSCW 2012: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press.
29. Zhu, H., Kraut, R.E., Kittur, A. (2012). Effectiveness of shared leadership in online communities. *CSCW 2012: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press. **Best paper honorable mention**
30. Forte, A., Kittur, A., Larco, V., Zhu, H., Bruckman, A., Kraut, R.E. (2012). Coordination and beyond: Social functions of groups in open content production. *CSCW 2012: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press.
31. Kittur, A., Khamkar, S., Andre, P., Kraut, R.E. (2012). CrowdWeaver: Visually managing complex crowd work. *CSCW 2012: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press.
32. Rzeszotarski, J., Kittur, A. (2012). Predicting discarded work at the word level in Wikipedia. *CSCW 2012: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press.
33. Kittur, A., Smus, B., Khamkar, S., Kraut, R.E. (2011). CrowdForge: Crowdsourcing complex work. *UIST 2011: Proceedings of the ACM Symposium on User Interface Software and Technology*. New York: ACM Press. Acceptance rate: 25%
34. Rzeszotarski, J., Kittur, A. (2011). Instrumenting the crowd: Using implicit behavioral measures to predict task performance. *UIST 2011: Proceedings of the ACM Symposium on User Interface Software and Technology*. New York: ACM Press. Acceptance rate: 25%
35. Halfaker, A., Song, B., Stuart, D. A., Kittur, A., Riedl, J. (2011). NICE: Social translucence through UI intervention. *WikiSym 2011: The International Symposium on Wikis and Open Collaboration*. New York: ACM Press. Acceptance rate: 40%
36. Halfaker, A., Kittur, A., Riedl, J. (2011). Don't bite the newbies: Revertings effect on the quantity and quality of Wikipedia work. *WikiSym 2011: The International Symposium on Wikis and Open Collaboration*. New York: ACM Press. Acceptance rate: 40%
37. Rogstadius, J., Kostakos, V., Kittur, A., Smus, B., Laredo, J., Vukovic, M. (2011). An assessment of intrinsic and extrinsic motivation on task performance in crowdsourcing markets. *ICSWM 2011: Proceedings of the International AAAI Conference on Weblogs and Social Media*. Acceptance rate: 24%

38. Chau, D., Kittur, Hong, J., Faloutsos, C. (2011). Making Sense of Large Network Data: Combining Rich User Interaction and Machine Learning. *CHI 2011: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. Acceptance rate: 26%
39. Cranshaw, J., Kittur, A. (2011). The Polymath Projects: Lessons from an experiment in large-scale online collaboration in mathematics. *CHI 2011: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. Acceptance rate: 26%
40. Zhu, H., Kraut, R. E., Wang, Y., Kittur, A. (2011). Identifying Shared Leadership in Wikipedia. *CHI 2011: Proceedings of the ACM Conference on Human-factors in Computing Systems*. New York: ACM Press. Acceptance rate: 26%
41. Cranshaw, J., Toch, E., Hong, J., Kittur, A., and Sadeh, N. (2010). Bridging the Gap Between Physical Location and Online Social Networks. *UbiComp 2010: Proceedings of the 12th International Conference on Ubiquitous Computing*. New York: ACM Press. Acceptance rate: 19%
42. Balakrishnan, A., Fussell, S., Kiesler, S., Kittur, A. (2010). Pitfalls of Information Access with Visualizations in Remote Collaborative Analysis. *CSCW 2010: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press. Acceptance rate: 20%
43. Kittur, A., & Kraut, R. E. (2010). Beyond Wikipedia: Conflict and coordination in online production groups. *CSCW 2010: Proceedings of the ACM Conference on Computer-Supported Cooperative Work*. New York: ACM Press. Acceptance rate: 20%
44. Kittur, A. (2010). Crowdsourcing, Collaboration and Creativity. *XRDS* 17(2), 22-26.
45. Halfaker, A., Kittur, A., Kraut, R. E., Riedl, J. (2009). Quality, Experience and Ownership in WikiWork. *WikiSym 2009: The International Symposium on Wikis and Open Collaboration*. New York: ACM Press. Acceptance rate: 34% **Best paper honorable mention**
46. Kittur, A., Pendleton, B., Kraut, R. E. (2009). Herding the Cats: The Influence of Groups in Coordinating Peer Production. *WikiSym 2009: The International Symposium on Wikis and Open Collaboration*. New York: ACM Press. Acceptance rate: 34%
47. 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%
48. 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%
49. 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. Acceptance rate: 23%, **Best paper honorable mention**
50. 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. Acceptance rate: 23%, **Best note award**
51. 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%
52. 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%
53. 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.
54. 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.

55. 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*.
56. 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%
57. 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%
58. 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%
59. 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 + presentation): 26%
60. 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%
61. 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%
62. 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%
63. Hummel, J.E., Holyoak, K.J., Green, C., Dumas, 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.
64. 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.

WORKSHOP PAPERS, PRESENTATIONS AND POSTERS

1. Kittur, A., Chang, J. C., Hahn, N., Kim, J.E. (2016). Bigger thinning through micro-tasks. *CHI 2016 Workshop on Productivity Decomposed*.
2. Rzeszutarski, J., Kittur, A. (2013). TouchViz: (Multi)Touching multivariate data. *CHI 2013 Extended Abstracts*.
3. Rzeszutarski, J., Kittur, A. (2013). TouchViz: (Multi)Touching multivariate data. *CHI 2013 Demo*.
4. Rzeszutarski, J., Kittur, A. (2013). TouchViz: (Multi)Touching multivariate data. *CHI 2013 Video showcase*.
5. Eisenstein, J., Chau, D., Kittur, A., Xing, E. (2012). TopicViz: Interactive topic exploration in document collections. *CHI 2012 Extended Abstracts*.
6. Kittur, A., Smus, B., Kraut, R. E. (2011). CrowdForge: A Framework for Crowdsourcing Complex Work. *CHI 2011 Extended Abstracts*.
7. Collier, B, Burke, M., Kittur, A., Kraut, R.E. (2010). Promoting Good Management: Governance, Promotion, and Leadership in Open Collaboration Communities. *Proceedings of the International Conference on Information Systems*, St. Louis, MI.
8. Miller, E., Seppa, C., Kittur, A., Sabb, F., Poldrack, R. A. (2010). The Cognitive Atlas: Employing Interaction Design Processes to Facilitate Collaborative Ontology Creation. *WWW 2010, Workshop on the Future of the Web for Collaborative Science*.
9. Chau, D., Kittur, A., Faloutsos, C., Hong, J. (2010). Supporting Sensemaking in Large Network Data. *27th Army*

Science Conference (Demo). Orlando, FL.

10. Chau, D., Kittur, A., Faloutsos, C., Hong, J. (2009). SHIFTR: A Fast and Scalable System for Ad Hoc Sensemaking of Large Graphs. *KDD 2009 (Demo). Paris, France.*
11. 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.*
12. 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.*
13. 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.*
14. 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.*
15. 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.*
16. 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

[“What’s One Way To Spur Innovation? CMU Researchers Say Teach Computers To Understand Analogies”](#). NPR, WESA, August, 2017.

[“Automating Really Big Ideas”](#). Axios, August, 2017.

[“Crowdsourcing May Have Just Helped Close the Analogy Gap for Computers”](#). ZDNet, August, 2017.

[“AI Draws Parallels Between Fields You Never Knew Were Connected”](#). Digital Trends, August, 2017.

[“AI, Crowdsourcing Combine to Close Analogy Gap”](#). Phys.org, August, 2017. Also on [Science Daily](#) and [EurekAlert](#) and [MENAFN](#) and [KnowRidge](#).

[“To Spur Innovation, Teach A.I. to Find Analogies”](#). Futurity, August, 2017.

[“Researchers Devise a Way for AI to Boost Innovation”](#). IdeaConnection, August, 2017.

[“Creative Ideas Mined with Crowdsourcing, Neural Nets”](#). TechNewsLit, August, 2017.

[“Product-Pitching AI Scans Ideas for Analogies”](#). PDDNet, August, 2017.

[“This AI Can Hunt Down Old Solutions to New Problems”](#). TechRadar, August, 2017.

[“Crowdsourcing and Cognitive Computing: Are You Ready for the Future of Work?”](#). Spend Matters. June, 2016.

[“Crowd-augmented Cognition”](#). NSF. May, 2016.

[“Crowd-augmented cognition: Team develops tools that combine human and machine intelligence to accelerate learning”](#). Phys.org. May, 2016.

[“Crowdsourcing work? Get rid of the human supervisor”](#). Pittsburgh Post-Gazette. May, 2016.

[“Research Project Mixes Humans and Machines for Better Crowdsourcing”](#). Campus Technology. May, 2016.

[“Facebook CEO’s New AI Hobby: Lots of Late Nights, Experts Say”](#). Wall Street Journal. January, 2016.

“Developing iPad Applications for Visualization and Insight” course ranked #4 on [“20 Best App Development Colleges”](#). November 2015.

[“Pittsburgh Startup DataSquid Wins First Prize at Three Rivers Venture Fair”](#). American Entrepreneurship Today. October, 2014.

Press relating to Kinetica (multi-touch naturalistic visualization):

[“iPad Program Let’s You Touch Your Data”](#). Data Science Central. May, 2014.

[“Kinetica Is A New System That Lets You Play With Data With Your Fingers”](#). TechCrunch. April, 2014.

[“Carnegie Mellon system lets iPad users explore data with their fingers”](#). Phys.org. April, 2014.

[“Researchers turn spreadsheets into visualizations for tablets”](#). GigaOm. April, 2014.

[“Read Tough Data Sheets On Tablets With This Device”](#). BioScholar. April, 2014.

[“Kinetica is a New System That Let’s You Play With Data With Your Fingers”](#). Allmediandy. April, 2014.

[“Carnegie Mellon Research Explores Touchy-Feely Data Visualization”](#). Campus Technology. April, 2014.

[“New tech makes difficult data sheets easy to read”](#). Jagran.com. April, 2014.

[“Carnegie Mellon system let’s iPad users explore data with their fingers”](#). SpaceDaily. April, 2014

[“Now, iPad users can explore Excel spreadsheets with their fingers”](#). ZeeNews. April, 2014.

[“iPad users explore data with their fingers: Kinetica converts tabular data into touch-friendly format”](#). Science Daily. April, 2014.

[“Carnegie Mellon system lets iPad users explore data with their fingers”](#). National Science Foundation, News From the Field. April, 2014.

[“Read tough data sheets on tablets with this device”](#). Aaj Ki Khabar. April, 2014.

[“Now, iPad users can explore Excel spreadsheets with their fingers”](#). Yahoo! Finance India. April, 2014.

[“Brilliant tool Kinetica let’s you manipulate data by touch”](#). Softpedia. April, 2014.

[“New system lets iPad users explore data with their fingers”](#). Scicasts. April, 2014.

[“Carnegie Mellon system lets iPad users explore data with their fingers”](#). HispanicBusiness. April, 2014.

[“Kinetica Is A New System That Lets You Play With Data With Your Fingers”](#). Consumer Electronics Net. April, 2014.

[“Read tough data sheets on tablets with this device”](#). TopNews.in. April, 2014.

[“System converts tabular data into touch-friendly format”](#). domain-b. April, 2014.

[“Touchscreen system lets you manipulate excel data with your fingers”](#). PSFK. April, 2014.

[“Rethinking Spreadsheets For Touchscreen Devices”](#). RedOrbit. April, 2014.

[“Read tough data sheets on tablets with this device”](#). Business Standard. May, 2014.

[“New tech makes reading difficult data sheets easy”](#). Business Standard. May, 2014.

[“How Crowdworkers Became the Ghosts in the Digital Machine”](#). The Nation. February, 2014.

[“Human factors/ergonomics research paper on leadership in Wikipedia wins 2013 Human Factors Prize”](#). Phys.org, September, 2013.

[“Hive-mind solves tasks using Google Glass ant game”](#). NewScientist, August, 2013.

[“CMU Professor: Online ‘Crowd Workers’ Need Protections, Organizations”](#). NPR Pittsburgh, February, 2013.

[“Crowdsourcing grows up as online workers unite”](#). NewScientist, February, 2013.

[“Crowdsourcing grows up as online workers unite”](#). ACM TechNews, February, 2013.

[“Crowdsourcing workforce vulnerable to exploitation”](#). Business News Daily, February, 2013.

[“Personal assistant for your emails streamlines your life”](#). NewScientist, January, 2013.

[“Picking the Brains of Strangers Improves Efforts to Make Sense of Online Information”](#). ACM TechNews, May, 2012.

[“The mouse faces extinction as computer interaction evolves”](#). Washington Post, October, 2012.

[“Tapping into other people’s brains”](#). MobyMedia, May, 2012.

[“Tap other people’s brains to make decisions”](#). MSNBC.com, May, 2012.

[“Picking the brains of strangers helps make sense of online information”](#). Phys.org, May, 2012.

[“Carnegie Mellon Students Learn iPad Programming in New Course Co-Taught by Professor and Pros”](#). Carnegie Mellon News, April, 2012.

[“iPad Visualization course”](#). CMU homepage. January, 2012.

[“Return of the human computers”](#). The Economist, Dec 3rd (print edition), 2011.

[“Mathematics becomes more sociable”](#). NewScientist, about the Polymath Projects, May, 2011.

Press relating to CrowdForge and crowdsourcing science journalism (mybossisarobot.com):

[“I, reporters”](#). The Economist, February, 2011.

[“Silicon supervisor gets the job done online”](#). NewScientist, February, 2011.

[“Can This Journalist Be Replaced by Software and Mechanical Turk?”](#). Technology Review, February, 2011.

[“Carnegie Mellon Researchers Find Crowds Can Write as Well as Individuals”](#). The Chronicle of Higher Education, February, 2011.

[“Content Farms 2.0: Can Robots Help Write the News?”](#). GigaOm, February, 2011.

[“News just in - crowdsourced articles are better than single-author efforts”](#). News.com.au, February, 2011.

[“CMU’s CrowdForge taps the collective power of millions”](#). PopCity, February, 2011.

[“Crowd workers are not online Shakespeares, but Carnegie Mellon research shows they can write”](#). ScienceBlog, February, 2011.

[“CrowdForge Experiment Success through Carnegie Mellon University”](#). The Daily CrowdSource, February 2011.

[“Many hands do the work”](#). News Observer, February, 2011.

[“Crowd workers are not online Shakespeares, but Carnegie Mellon research shows they can write”](#). R&D Magazine, February, 2011.

ACM TechNews, February, 2011.

[“Wikipedia – not the devil”](#). The Current, February, 2011

[“What social networks reveal about interaction”](#). Irish Times, about Wikipedia and Wikidashboard.

[“Three Principles for Clinical Research.”](#) NIMH Director’s Blog, about the Cognitive Atlas.

[“Wikipedia Opens Semi-Protected Articles to Editors.”](#) NPR To The Point Interview, June, 2010.

[“Who writes Wikipedia articles?”](#) Discovery News, March, 2010 (also reported in MSNBC)

[“Volunteers log off as Wikipedia ages”](#). Wall Street Journal, November, 2009 (also reported in ACM TechNews, OPA Intelligence Report, Galileu, and more)

[“Experimenting on Mechanical Turk”](#). Slashdot.org, October, 2009 (cited from [IT World](#), also cited in GenomeWeb.)

[“Can You Trust Crowd Wisdom?”](#). Technology Review, September 2009 (also reported in ACM TechNews, Tech News World)

[“Tool Shows the Arguments Behind Wikipedia Entries.”](#) Slashdot.org, February 2009.

[“Who’s Messing with Wikipedia?”](#) Technology Review, February 2009.

“CMU Does Research on Cloud Computing”. ACM TechNews, December 2008.

[“Amazon’s Mechanical Turk Used for Fraudulent Activities”](#). ReadWriteWeb, August 2008.

[“The Wisdom of the Chaperones”](#). Slate, February 2008.

“Wikimedia Pegs Future on Education, Not Profit”. San Francisco Chronicle, 2008.

[“The More the Wikier”](#). Nature News, February 2007.

“How Companies Can Make the Most of User-Generated Content”. McKinsey Quarterly, 2007.

INVITED TALKS

“Towards a Universal Knowledge Accelerator”, Keynote at UIST, 2017.

“Towards a Universal Knowledge Accelerator”, Keynote at HCOMP, 2017.

“Scaling up Cognition: Towards a Future of Creative Work”, Stanford, 2017.

“Collaborative Cognition”, Adobe Research, 2016.

“Collaborative Cognition: Augmenting thinking with crowds and computation”, Cornell Tech, 2015.

“Collaborative Cognition: Augmenting thinking with crowds and computation”, Kavli Frontiers of Science, 2014.

“Collaborative cognition: Augmenting thinking with crowds and computation”, Collective Intelligence, 2014.

“New Frontiers in Financial Services with Data Visualization”. New York Society of Security Analysts, 2014.

“Big Thinking: Augmenting human cognition with crowds and computation”, Stanford, 2014.

“Community, Impact, and Credit”, CSCW Panel, 2013.

“Crowdsourcing, Collaboration, & Creativity”, UCSD, 2012.

“Massively Collaborative Cognition”, UCLA, 2012.

“Crowdsourcing, Collaboration, & Creativity”, MIT CSAIL, 2012.

“Combining Minds: Making Sense of Information Together”, Stanford, 2011.

“Combining Minds: Making Sense of Information Together”. Tepper Business School, CMU, 2011.

“Combining Minds: Making Sense of Information Together”. Yahoo!, 2010.

“Combining Minds: Making Sense of Information Together”. HP, 2010.

“Crowdsourcing Complex Cognition”. Crowdsourcing & Translation Workshop, University of Maryland, 2010.

“Collaboratively Constructing Information Landscapes”. Google, 2010.

“Understanding Wikipedia: Social Collaborative Knowledge Building”. University of Pittsburgh School of Information Science, 2010.

“Combining Minds: Coordination and Social Sensemaking”. MIT CSAIL, 2010.

“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

2017	NSF AIR-TT: "Supporting Complex Sensemaking on Mobile Phones". PI. \$200k
2017	Bosch: "Knowledge Accelerator Project". PI. \$50k
2016	Google Research Award: Modeling and Augmenting Sensemaking and Exploratory Search. PI. \$76.5k
2016	Yahoo! InMind: Mobile Intelligent Assistants: From Search Results to Search Landscapes. PI. \$100k
2015	Northrup Grumman. PI. \$40k
2015 - 2018	NSF CHS: "Distributed Analogical Innovation". PI (with Robert Kraut). 3 years, \$500k
2015	Bosch: Crowdsourcing seminar. \$1.1k
2015	Microsoft: Individual Crowdsourcing. PI. \$3k.
2014	Bosch: "Accelerating Knowledge Acquisition with Crowds". PI. \$20k
2014	CMU ProSEED/Simon Initiative Award: "Bootstrapping Academic Bootcamp". PI (with Jeff Bigham and Emma Brunskill). \$20k
2014	Google Research Award: "Crowd-Augmented Search and Sensemaking". PI (with Steven Dow). \$76k
2014	Bosch: Crowdsourcing seminar. \$1.1k
2014	Bosch: "Accelerating Knowledge Acquisition with Crowds", intern supplement. PI. \$6k
2014	NSF CGV REU. Co-PI. 16k
2013	Bosch: "Accelerating Knowledge Acquisition with Crowds". PI. \$90k
2012	Google Social Interactions Program: "Successfully Starting Online Groups". Co-PI (with Robert Kraut, Laura Dabbish & Jason Hong). \$150k
2012	Bosch: "Crowdsourcing knowledge building". PI. \$60k
2012 - 2015	NSF CGV: "Making Sense out of Large Graphs - Bridging HCI with Data Mining". Co-PI (with Christos Faloutsos). \$500k
2012	Bosch: Crowdsourcing seminar. \$1.1k
2012	Bosch: "Crowdsourcing complex engineering tasks". PI (with Robert Kraut). \$15k
2012 - 2017	NSF CAREER: "Distributed Sensemaking: Making Sense of the Web Together". PI. 5 years, \$500k
2012	NSF VOSS REU. PI. \$16k
2012	Apple, Developing iPad Applications for Visualization and Insight. PI. \$48k
2011	Future of Work Center Award: "Coordination in Crowd Sourcing and Distributed Collaboration". PI (with Robert Kraut). 1 year, \$70k
2011 - 2014	NSF SoCS: "Programming With Crowds: Models and Tools for General Purpose Crowdsourcing". PI (with Rob Miller). 3 years, \$746k
2010 - 2012	Microsoft External Research Award: "Collaborative Knowledge Mapping". PI. 2 years, \$248k
2011	NSF SoCS REU. PI. \$16k
2011	NSF VOSS REU. PI. \$12k
2010	Google Research Award: "Improving Online Search and Shopping Through Social Sensemaking". PI. \$90k
2010	Future of Work Center Award: "Coordination in Crowd Sourcing and Distributed Collaboration". PI (with Robert Kraut). 1 year, \$70k
2010	CrowdFlower grant. PI. \$10k
2010	NSF VOSS REU. PI. \$16k
2010 - 2014	NSF SoCS: "Information Farming: Intelligent Interfaces for an Online Production Community". PI (with John Riedl). 3 years, \$750k
2009 - 2013	NSF VOSS: "Coordination in virtual organizations". PI (with Robert Kraut). 3 years, \$387k
2008 - 2013	NIH R01: "The Cognitive Atlas: Developing an Interdisciplinary Knowledge Base Through Social Collaboration". Co-PI (with Russ Poldrack, PI). 5 years, \$1.25M
2005	UCLA Graduate Division Travel Award

FELLOWSHIPS AND AWARDS

2017	Best paper (also Best Student Paper), KDD
2016	Allen Newell Award for Research Excellence (with Bob Kraut and students)
2016	Best paper honorable mention, CHI
2016	Best paper honorable mention, CHI
2016	Best paper honorable mention, CHI
2014	Kavli Fellow of the National Academy of Sciences
2014	Best paper honorable mention, CHI
2014	Best paper honorable mention, CHI
2013	2013 Human Factors Prize
2013	Best paper honorable mention, CHI
2013	Cooper-Siegel Professorship, CMU
2012	Best paper, UIST
2012	Best paper honorable mention, CHI
2012	Best paper honorable mention, CSCW
2009	Best paper honorable mention, WikiSym
2008	Best paper award, CSCW
2008	Best paper honorable mention, 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

PEER REVIEW ACTIVITIES

Human Computer Interaction (Associate Editor, 2014+)
ICWSM (Senior Program Committee, 2010, 2011)
CSCW (Program Committee, 2008, 2011, 2013)
CHI (Program Committee, 2009, 2011)
WikiSym (Program Committee, 2009, 2010, 2011)
CrowdConf (Program Committee, 2010, 2013; Organizing Committee, 2012)
Hypertext (Program Committee, 2010)
CrowdKDD (Program Committee, 2012)
ICIS
UIST
OSS
Cognitive Science Society
International Journal of Human-Computer Studies
International Journal of Electronic Commerce
Journal of Computer Mediated Communication
Psychonomic Bulletin & Review
Transactions on Computer-Human Interaction
MIT Sloan Management Review

PATENTS

1. Methods and Software for Visualizing Data By Applying Physics-Based Tools To Data Objectifications. Jeff Rzeszotarski, Aniket Kittur. U.S. Patent #20150310643 (Published 10/2015).

2. System for Interactively Visualizing and Evaluating User Behavior and Output. Jeff Rzeszotarski, Aniket Kittur. U.S. Patent #20150254594 (Published 2015).
3. CrowdForge. Aniket Kittur, Boris Smus, Robert Kraut. Provisional patent filed 9/2011.

SERVICE

Graduated PhD Students:

Haiyi Zhu, 8/2015. "Essays on Achieving Success in Peer Production: Contributor Management, Best Practice Transfer and Inter-Community Relationships". Currently Assistant Professor at University of Minnesota (CS).

Duen Horng (Polo) Chau, 7/2012. "Data Mining Meets HCI: Making Sense of Large Graphs". Currently Assistant Professor at Georgia Tech (CS). *CMU School of Computer Science Dissertation Award Honorable Mention.*

Mentored Postdocs:

Joel Chan (2016+)

Lisa Yu (2012 – 2015). Currently Research Scientist at Bosch.

Kurt Luther (2012 – 2014). Currently Assistant Professor at Virginia Tech (CS).

Abdigani Diriye (2012 – 2013). Currently Co-Founder at SuperFluid Labs & Innovate.SO.

Paul André (2011 – 2013). Currently UX Researcher, Facebook.

PhD Dissertation Committees:

Dan Tasse
 Jeff Rzeszotarski
 Kerry Chang
 Eliane Wiese
 Justin Cranshaw
 Julia Schwarz
 Stacey Kuznetsov
 Sunyoung Kim
 Haiyi Zhu
 JeeHyung Lee
 Thomas LaToza
 Ian Li
 Leongwhee Teo
 Aruna Balakrishnan
 Duen Horng Chau
 Vamshi Ambati
 Brian Lim

CMU

2016	HCI MCDS Admissions Committee
2016+	SCS Web 2020 Initiative, Chair
2015+	HCI Curriculum Committee, Chair
2015	MHCI Admissions Committee
2015+	HCI MCDS Advisory Committee
2015	McCune Foundation Site Visit Support, CMU
2014	R&P Reading Committee
2014	HCI PhD Admissions Committee
2013	HCI PhD Admissions Committee

2013 HCII External Relations Committee
 2013 HCII HCIC Selection Committee
 2013 HCII Hiring Committee
 2012-14 HCII Space Committee, Chair ('13-14)
 2011 Methods Redesign Committee, HCII
 2011 HCII PhD Admissions Committee
 2010 HCII PhD Admissions Committee
 2009 HCII PhD Admissions Committee

EXTERNAL

2016 Advisory Board, Consortium for the Science of Socio-technical Systems
 2015 Doctoral Consortium, InGroup Conference
 2014 Advisory Board, Consortium for the Science of Socio-technical Systems
 2014 Working committee on reviewing process, CSCW
 2013 Advisory Group, Digital Societies and Social Technologies Summer Institute
 2011 - Founder, Crowdsourcing lunch seminar series
 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

2012 Developing iPad Applications for Visualization and Insight, CMU
 2012,14,16 Cognitive Perspectives on HCI, CMU
 2012,14,15,16 Process & Theory, CMU
 2011,13,15, 17 Sensemaking: Cognitive, Social, and Technical Perspectives, CMU
 2009,10,13 Social Web, CMU
 2009 HCI Methods, CMU
 2012 Guest Lecturer, Information in Social Systems (SI500), University of Michigan
 2011 Guest Lecturer, Case Studies: Measuring Social Media, CMU
 2008,09 Guest Lecturer, Computer-Mediated Communication, CMU
 2010 Guest Lecturer, The Social Web, University of Pittsburgh
 2010 Guest Lecturer, Analysis of Social Media, CMU
 2010 Guest Lecturer, Cognitive Science Perspectives in HCI, CMU
 2006 Teaching Assistant, Psychology Research Methods, UCLA
 2004,06 Teaching Assistant, Neural Network Laboratory, UCLA
 2001 Instructor, Information Architecture Course, Sapiient Corporation
 1997 Developer, Computational modeling course development, Princeton University

INDUSTRY EXPERIENCE

2014 - Co-Founder, DataSquid Inc.

- Startup commercializing novel multi-touch physics-based visualization software
- AlphaLab incubator seed funding, winner of the Three Rivers Venture Fair Tech Showcase, runner up at McGinnis Venture Competition

1999 - 2001 Senior Information Designer, Sapiient 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