

Jiepu Jiang

Center for Intelligent Information Retrieval
College of Information and Computer Sciences
University of Massachusetts Amherst

Email: jpjiang@cs.umass.edu

Phone: +1 (812) 272-1970

Homepage: <https://people.cs.umass.edu/jpjiang/>

Career Objective

- To bridge and fuse different aspects of information retrieval, information search, information seeking, and information access.
 - To educate information professions and foster the education of information literacy.
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Research Interests

- Interactive search; evaluation of search systems; simulation of search user interaction
 - Search query; human querying behavior; query understanding techniques
 - Computational methods for scientific discovery and scholarly communication
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Education

University of Massachusetts Amherst Ph.D. in Computer Science Advisor: Prof. James Allan	Sep. 2013 - Present
University of Pittsburgh Ph.D. in Library and Information Science Advisor: Prof. Daqing He	Sep. 2009 - 2016 (expected)
Wuhan University M.S. in Information Science Advisor: Prof. Wei Lu	Sep. 2007 - Jul. 2009
Wuhan University B.S. in Electronic Commerce B.S. in Computer Science	Sep. 2003 - Jul. 2007

Experience

University of Massachusetts Amherst Research Assistant	Sep. 2013 - Present
Microsoft Research Redmond Research Intern	May. 2014 - Aug. 2014
University of Pittsburgh Teaching Assistant	Sep. 2009 - Aug. 2013
Wuhan University	Sep. 2007 - Jul. 2009

Research Assistant	
Wuhan International Trade University	Sep. 2007 - Jul. 2008
Part-time Lecturer	
Wuhan University	Sep. 2005 - Jul. 2007
Programmer	

PUBLICATIONS

Refereed Journal Articles

4. Jeng, W., He, D., and **Jiang, J.** (2015). User participation in an academic social networking service: A survey of open group users on mendeley. *Journal of the Association for Information Science and Technology*, 66(5): 890–904.
3. Yue, Z., Han, S., He, D., and **Jiang, J.** (2014). Influences on query reformulation in collaborative web search. *Computer*, 47(3): 46–53.
2. Ni, C., Sugimoto, C. R., and **Jiang, J.** (2013). Venue-author-coupling: A measure for identifying disciplines through author communities. *Journal of the American Society for Information Science and Technology*, 64(2): 265–279.
1. Wu, D., He, D., **Jiang, J.**, Dong, W., and Vo, K. T. (2012). The state of iSchools: an analysis of academic research and graduate education. *Journal of Information Science*, 38(1): 15–36.

Refereed Conference Articles

32. **Jiang, J.** and Allan, J. (2016). Adaptive effort for search evaluation metrics. In *Proceedings of the 38th European Conference on Information Retrieval (ECIR '16)*. [full paper, acceptance rate 21%]
31. **Jiang, J.** and Ni, C. (2016). What affects word changes in query reformulation during a task-based search session? In *Proceedings of the first ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR '16)*. [full paper, acceptance rate 40%]
30. **Jiang, J.** and Allan, J. (2016). Correlation between system and user metrics in a session. In *Proceedings of the first ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR '16)*. [short paper]
29. Kiseleva, J., Williams, K., **Jiang, J.**, Awadallah, A. H., Zitouni, I., Crook, A., and Anastakos, T. (2016). Understanding user satisfaction with intelligent assistants. In *Proceedings of the first ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR '16)*. [full paper, acceptance rate 40%]
28. Han, S., He, D., Yue, Z., and **Jiang, J.** (2016). Exploring the contextual support for collaborative information retrieval. In *Proceedings of the first ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR '16)*. [full paper, acceptance rate 40%]
27. Ni, C. and **Jiang, J.** (2016). Visualizing computer science communities using conference hashtags. In *Proceedings of the 2016 iConference (iConference '16)*. [poster]
26. **Jiang, J.** and Allan, J. (2016). Reducing click and skip errors in search result ranking. In *Proceedings of the 9th ACM International Conference on Web Search and Data Mining (WSDM '16)*. [full paper, acceptance rate 18.2%]
25. **Jiang, J.**, Hassan Awadallah, A., Jones, R., Ozertem, U., Zitouni, I., Gurunath Kulkarni, R., and Khan, O. Z. (2015). Automatic online evaluation of intelligent assistants. In *Proceedings of the 24th International Conference on World Wide Web (WWW '15)*: 506–516. [full paper, acceptance rate 14%]

24. **Jiang, J.**, Hassan Awadallah, A., Shi, X., and White, R. W. (2015). Understanding and predicting graded search satisfaction. In *Proceedings of the Eighth ACM International Conference on Web Search and Data Mining (WSDM '15)*: 57–66. [full paper, acceptance rate 16.8%]
23. **Jiang, J.**, He, D., and Allan, J. (2014). Searching, browsing, and clicking in a search session: Changes in user behavior by task and over time. In *Proceedings of the 37th International ACM SIGIR Conference on Research & Development in Information Retrieval (SIGIR '14)*: 607–616. [full paper, acceptance rate 21%]
22. **Jiang, J.** and Allan, J. (2014). Necessary and frequent terms in queries. In *Proceedings of the 37th International ACM SIGIR Conference on Research & Development in Information Retrieval (SIGIR '14)*: 1167–1170. [short paper]
21. **Jiang, J.**, He, D., and Ni, C. (2013). The correlations between article citation and references' impact measures: What can we learn? In *Proceedings of the 76th ASIS&T Annual Meeting (ASIS&T '13)*. [poster]
20. Jeng, W. and **Jiang, J.** (2013). Users' perceived difficulties and corresponding reformulation strategies in voice search. In *Proceedings of the 7th Annual Symposium on Human-Computer Interaction and Information Retrieval (HCIR '13)*. [short paper]
19. Han, S., **Jiang, J.**, Yue, Z., and He, D. (2013). Recommending program committee candidates for academic conferences. In *Proceedings of the CIKM 2013 Workshop on Computational Scientometrics: Theory & Applications (CompSci '13)*: 1–6. [full paper]
18. Han, S., He, D., **Jiang, J.**, and Yue, Z. (2013). Supporting exploratory people search: A study of factor transparency and user control. In *Proceedings of the 22nd ACM International Conference on Information & Knowledge Management (CIKM '13)*: 449–458. [full paper, acceptance rate 16.9%]
17. **Jiang, J.**, Jeng, W., and He, D. (2013). How do users respond to voice input errors?: Lexical and phonetic query reformulation in voice search. In *Proceedings of the 36th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '13)*: 143–152. [full paper, acceptance rate 19.9%]
16. **Jiang, J.** and He, D. (2013). Simulating user selections of query suggestions. In *Proceedings of the SIGIR '13 workshop on Modeling User Behavior for Information Retrieval Evaluation (MUBE '13)*. [short paper]
15. **Jiang, J.**, Ni, C., He, D., and Jeng, W. (2013d). Mendeley group as a new source of interdisciplinarity study: How do disciplines interact on mendeley? In *Proceedings of the 13th ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL '13)*: 135–138. [short paper]
14. **Jiang, J.**, He, D., Han, S., and Jeng, W. (2013a). Is the article crucial to my research? evaluating taskoriented importance of academic resources. In *Proceedings of the 2013 iConference (iConference '13)*. [short paper]
13. Yue, Z., Jeng, W., **Jiang, J.**, Han, S., and He, D. (2013). Pitt IRIS lab at iConference 2013 social media expo: Search, share and learn the way you wanted. In *Proceedings of the 2013 iConference (iConference '13)*. [poster]
12. Yue, Z., Han, S., **Jiang, J.**, and He, D. (2012a). Search tactics as means of examining search processes in collaborative exploratory web search. In *Proceedings of the 5th Ph.D. Workshop on Information and Knowledge (PIKM '12)*: 59–66. [full paper]
11. **Jiang, J.**, He, D., Han, S., Yue, Z., and Ni, C. (2012a). Contextual evaluation of query reformulations in a search session by user simulation. In *Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM '12)*: 2635–2638. [poster]

10. Yue, Z., **Jiang, J.**, Han, S., and He, D. (2012b). Where do the query terms come from?: An analysis of query reformulation in collaborative web search. In *Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM '12)*: 2595–2598. [poster]
9. Jeng, W., He, D., **Jiang, J.**, and Zhang, Y. (2012). Groups in mendeley: Owners’s descriptions and group outcomes. In *Proceedings of the 75th American Society for Information Science and Technology Annual Meeting (ASIS&T '12)*. [poster]
8. **Jiang, J.**, Yue, Z., Han, S., and He, D. (2012b). Finding readings for scientists from social websites. In *Proceedings of the 35th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '12)*: 1075–1076. [poster]
7. Ni, C., Sugimoto, C., and **Jiang, J.** (2011). Degree, closeness, and betweenness: Application of group centrality measurements to explore macro-disciplinary evolution diachronically. In *Proceedings of the 13th International Conference of the International Society for Scientometrics & Informetrics (ISSI 2011)*. [full paper]
6. **Jiang, J.**, He, D., and Ni, C. (2011). Social reference: Aggregating online usage of scientific literature in CiteULike for clustering academic resources. In *Proceedings of the 11th Annual International ACM/IEEE Joint Conference on Digital Libraries (JCDL '11)*: 401–402. [poster]
5. Wu, X., Lu, W., and **Jiang, J.** (2011). Journal evaluation using the importance of authors in co-authorship network. In *Proceedings of the 2011 iConference (iConference '11)*: 800–801. [poster]
4. Wu, D., He, D., **Jiang, J.**, Dong, W., and Vo, K. T. (2011). Academic research in ischools: State and implications. In *Proceedings of the 2011 iConference (iConference '11)*: 203–210. [full paper]
3. **Jiang, J.**, Lu, W., Rong, X., and Gao, Y. (2009). Adapting language modeling methods for expert search to rank wikipedia entities. In *Advances in Focused Retrieval, volume 5631 of Lecture Notes in Computer Science (INEX '08)*: 264–272. [full paper]
2. **Jiang, J.** and Lu, W. (2008). IR-Based Expert Finding Using Filtered Collection. In *Proceedings of the 4th International Conference on Wireless Communications, Networking and Mobile Computing*, 2008. [full paper]
1. **Jiang, J.**, Han, S., and Lu, W. (2008). Expertise retrieval using search engine results. In *Proceedings of the SIGIR '08 workshop on Future Challenges in Expertise Retrieval (fCHER)*. [full paper]

Non-referred Articles

9. **Jiang, J.** and Allan, J. (2014). UMass at TREC 2014 session track. In *Proceedings of the 23rd Text REtrieval Conference (TREC 2014)*.
8. **Jiang, J.** and He, D. (2013). Different effects of click-through and past queries on whole-session search performance. In *Proceedings of the 22nd Text REtrieval Conference (TREC 2013)*.
7. **Jiang, J.**, He, D., and Han, S. (2012). On duplicate results in a search session. In *Proceedings of the 21st Text REtrieval Conference (TREC 2012)*.
6. Han, S., Yue, Z., **Jiang, J.**, and Jeng, W. (2012). IRIS-IPS: An interactive people search system for hcir challenge. In *Proceedings of the 6th Annual Symposium on Human-Computer Interaction and Information Retrieval (HCIR '12)*.
5. **Jiang, J.**, Han, S., Wu, J., and He, D. (2011). PITT at TREC 2011 session track. In *Proceedings of the 20th Text REtrieval Conference (TREC 2011)*.

4. **Jiang, J.**, Lu, W., Rong, X., and Gao, Y. (2008). CSIR at INEX 2008 entity-ranking task. In *INEX workshop 2008 pre-proceedings (INEX 2008)*.
3. **Jiang, J.**, Lu, W., and Zhao, H. (2008). CSIR at TREC 2008 expert search task: Modeling expert evidence in expertise retrieval. In *Proceedings of the 17th Text REtrieval Conference (TREC 2008)*.
2. Lu, W., Liu, D., and **Jiang, J.** (2007). CSIR at INEX 2007. In *INEX workshop 2007 pre-proceedings (INEX 2007)*.
1. **Jiang, J.**, Lu, W., and Liu, D. CSIR at TREC 2007 expert search task. In *Proceedings of the 16th Text REtrieval Conference (TREC 2007)*.

Conference Presentations

15. **Jiang, J.** and Allan, J. (2014). UMass at TREC 2014 session track. In *Proceedings of the 23rd Text REtrieval Conference (TREC 2014)*. [oral presentation]
14. **Jiang, J.** and He, D. (2013). Different effects of click-through and past queries on whole-session search performance. In *Proceedings of the 22nd Text REtrieval Conference (TREC 2013)*. [oral presentation]
13. Jeng, W. and **Jiang, J.** (2013). Users' perceived difficulties and corresponding reformulation strategies in voice search. In *Proceedings of the 7th Annual Symposium on Human-Computer Interaction and Information Retrieval (HCIR '13)*. [poster presentation]
12. **Jiang, J.**, Jeng, W., and He, D. (2013). How do users respond to voice input errors?: Lexical and phonetic query reformulation in voice search. In *Proceedings of the 36th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '13)*: 143–152. [oral presentation]
11. **Jiang, J.** and He, D. (2013). Simulating user selections of query suggestions. In *Proceedings of the SIGIR '13 workshop on Modeling User Behavior for Information Retrieval Evaluation (MUBE '13)*. [oral presentation]
10. **Jiang, J.**, Ni, C., He, D., and Jeng, W. (2013d). Mendeley group as a new source of interdisciplinarity study: How do disciplines interact on mendeley? In *Proceedings of the 13th ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL '13)*: 135–138. [oral presentation]
9. **Jiang, J.**, He, D., Han, S., and Jeng, W. (2013a). Is the article crucial to my research? evaluating taskoriented importance of academic resources. In *Proceedings of the 2013 iConference (iConference '13)*. [oral presentation]
8. Yue, Z., Jeng, W., **Jiang, J.**, Han, S., and He, D. (2013). Pitt IRIS lab at iConference 2013 social media expo: Search, share and learn the way you wanted. In *Proceedings of the 2013 iConference (iConference '13)*. [poster presentation]
7. **Jiang, J.**, He, D., and Han, S. (2012). On duplicate results in a search session. In *Proceedings of the 21st Text REtrieval Conference (TREC 2012)*. [oral presentation]
6. **Jiang, J.**, He, D., Han, S., Yue, Z., and Ni, C. (2012). Contextual evaluation of query reformulations in a search session by user simulation. In *Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM '12)*: 2635–2638. [poster presentation]
5. Yue, Z., **Jiang, J.**, Han, S., and He, D. (2012). Where do the query terms come from?: An analysis of query reformulation in collaborative web search. In *Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM '12)*: 2595–2598. [poster presentation]

4. **Jiang, J.**, Ni, C., and He, D. (2012). Altmetrics and social reference: merely fads? In *Metrics 2012, a workshop of the ASIS&T 75th annual meeting*. [oral presentation]
 3. **Jiang, J.**, Yue, Z., Han, S., and He, D. (2012b). Finding readings for scientists from social websites. In *Proceedings of the 35th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '12)*: 1075–1076. [poster presentation]
 2. **Jiang, J.**, Han, S., Wu, J., and He, D. (2011). PITT at TREC 2011 session track. In *Proceedings of the 20th Text REtrieval Conference (TREC 2011)*. [oral presentation]
 1. **Jiang, J.**, He, D., and Ni, C. (2011). Social reference: Aggregating online usage of scientific literature in CiteULike for clustering academic resources. In *Proceedings of the 11th Annual International ACM/IEEE Joint Conference on Digital Libraries (JCDL '11)*: 401–402. [poster presentation]
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Academic Service

Program Committee

- CIKM (2014, 2015)
- ECIR (2014, 2015, 2016)
- IUI (2015)
- SIGIR (2015, 2016)
- WWW (2015)
- WSDM (2016)

Reviewer

- ACM TOIS (2014)
- CHI (2014, 2015, 2016)
- CIKM (2014, 2015)
- CSCW (2016)
- COLING (2010)
- DIS (2016)
- ECIR (2014, 2015, 2016)
- IUI (2015)
- JASIST (2009, 2010, 2011, 2012, 2013, 2014, 2015)
- MobileHCI (2016)
- PLOS One (2013, 2014)
- SIGIR (2015, 2016)
- World Wide Web Journal (2013, 2014)
- WWW (2015)
- WSDM (2016)