

# Shuguang Han

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## Education

- 2011 – 2017 **University of Pittsburgh**, Pittsburgh, PA, United States  
**Doctoral Student**, Advisor: *Dr. Daqing He & Dr. Peter Brusilovsky*  
*Research*: Interactive Information Retrieval, People Search, Collaborative Search
- 2004 – 2010 **Wuhan University**, Wuhan, Hubei, China  
**Bachelor & Master Student**, Advisor: *Dr. Wei Lu*  
*Research*: Information Retrieval, Expert Search

## Work Experience

- 2017 – Now **Google Research**, *Software Engineer*, Mountain View, CA, United States.
- 2015 – 2015 **Google Research**, *Intern*, Mountain View, CA, United States.  
Project: mobile gaze attention tracking with front-facing camera.
- 2015 – 2015 **Yahoo! Labs**, *Intern Scientist*, Sunnyvale, CA, United States.  
Project: mobile search session understanding.
- 2014 – 2014 **Google**, *Intern*, Mountain View, CA, United States.  
Project: behavior-based crowdsourcing quality control.
- 2009 – 2009 **Baidu**, *Product Manager*, Beijing, China.  
Project: Baidu open platform (Baidu Aladin).

## Selected Publications

- ACL 2017 Rui Meng, Sanqiang Zhao, **Shuguang Han**, Daqing He, Peter Brusilovsky and Yu Chi. 2017. Deep Keyphrase Generation. In Annual Meeting of the Association for Computational Linguistics (ACL 2017). (To Appear)
- CIKM 2016 **Shuguang Han**, Xing Yi, Zhen Yue, Zhigeng Geng, and Alyssa Glass. 2016. Framing Mobile Information Needs: An Investigation of Hierarchical Query Sequence Structure. In Proceedings of the 25th ACM International on Conference on Information and Knowledge Management. ACM, New York, NY, USA, 2131-2136.

- CHIIR 2016 **Shuguang Han**, Daqing He, Zhen Yue, and Jiepu Jiang. 2016. Contextual Support for Collaborative Information Retrieval. In Proceedings of the 2016 ACM on Conference on Human Information Interaction and Retrieval. ACM, New York, NY, USA, 33-42.
- TIST 2016 **Shuguang Han**, Peng Dai, Praveen Paritosh, and David Huynh. 2016. Crowdsourcing Human Annotation on Web Page Structure: Infrastructure Design and Behavior-Based Quality Control. ACM Transaction on Intelligent System & Technology. 7, 4, Article 56 (April 2016), 25 pages.
- TOIS 2015 **Shuguang Han**, Zhen Yue, and Daqing He. 2015. Understanding and Supporting Cross-Device Web Search for Exploratory Tasks with Mobile Touch Interactions. ACM Transaction on Information System. 33, 4, Article 16 (April 2015), 34 pages.
- IUI 2015 Jae-wook Ahn, Peter Brusilovsky, and **Shuguang Han**. 2015. Personalized Search: Reconsidering the Value of Open User Models. In Proceedings of the 20th International Conference on Intelligent User Interfaces (IUI '15). ACM, New York, NY, USA, 202-212.
- CSCW 2014 Zhen Yue, **Shuguang Han**, and Daqing He. 2014. Modeling search processes using hidden states in collaborative exploratory web search. In Proceedings of the 17th ACM conference on Computer supported cooperative work & social computing (CSCW '14). ACM, New York, NY, USA, 820-830.
- CIKM 2013 **Shuguang Han**, Daqing He, Jiepu Jiang, and Zhen Yue. 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). ACM, New York, NY, USA, 449-458.
- SBP 2013 **Shuguang Han**, Daqing He, Peter Brusilovsky, and Zhen Yue. 2013. Coauthor prediction for junior researchers. In Proceedings of the 6th international conference on Social Computing, Behavioral-Cultural Modeling and Prediction (SBP'13), 274-283.
- HCIR 2012 Jiepu Jiang, **Shuguang Han**, Jia Wu and Daqing He. IRIS-IPS: An Interactive People Search System for HCIR Challenge. In Symposium on Human-Computer Interaction and Information Retrieval. 2012. [*The Second Best Performance in HCIR Challenge*]
- TREC 2011 Jiepu Jiang, **Shuguang Han**, Jia Wu and Daqing He. PITT at TREC 2011 Session Track. In Text REtrieval Conference (TREC). 2011. [*The Best Performance in TREC Session Track*]

## Other Publications

- Electronic Library 2017 Qian Hu, Xin Lin, **Shuguang Han** and Lei Li. 2018. An Investigation of Cross-cultural Social Tagging Behaviors between Chinese and Americans. The Electronic Library, 2018. (To Appear)
- ASIS&T 2017 **Shuguang Han**, Yu Chi and Daqing He. 2017. Understanding and Modeling Behavior Patterns in Cross-Device Web Search. In Proceedings of the 80th ASIS&T Annual Meeting (ASIST '17). American Society for Information Science, Washington D.C. (Crystal City, Virginia), USA.
- UMAP 2016 Yun Huang, Michael Yudelson, **Shuguang Han**, Daqing He, and Peter Brusilovsky. 2016. Dynamic Knowledge Modeling in Textbook-Based Learning. In Proceedings of the 2016 Conference on User Modeling Adaptation and Personalization (UMAP '16). ACM, New York, NY, USA, 141-150.
- HMS 2016 Chien, Shih-Yi, Michael Lewis, Siddharth Mehrotra, **Shuguang Han**, Nathan Brooks, Huadong Wang, and Katia Sycara. 2016. Task Switching for Supervisory Control of Multi-Robot Teams. IEEE Transactions on Human-Machine Systems (2016).
- Scientometrics 2016 Lu Xiao, Guo Chen, Jianjun Sun, **Shuguang Han**, and Chengzhi Zhang. 2016. Exploring the topic hierarchy of digital library research in China using keyword networks: a K-core decomposition approach. Scientometrics 108, 3 (September 2016), 1085-1101.
- UMAP 2015 **Shuguang Han**, Daqing He, Zhen Yue, and Peter Brusilovsky. Supporting cross-device web search with social navigation-based mobile touch interactions. In International Conference on User Modeling, Adaptation, and Personalization, pp. 143-155. Springer International Publishing, 2015.
- Computer 2014 Zhen Yue, **Shuguang Han**, Daqing He, and Jiepu Jiang. 2014. Influences on Query Reformulation in Collaborative Web Search. Computer. 47, 3 (March 2014), 46-53.
- Electronic Library 2008 Xiangxing Shen, Zhong Zheng, **Shuguang Han**, and Chong Shen. A review of the major projects constituting the China Academic Digital Library. The Electronic Library 26, no. 1 (2008): 39-54.
- ASIS&T 2013 Zhen Yue, **Shuguang Han**, and Daqing He. 2013. An investigation of the query behavior in task-based collaborative exploratory web search. In Proceedings of the 76th ASIS&T Annual Meeting: Beyond the Cloud: Rethinking Information Boundaries (ASIST '13), Andrew Grove (Ed.). American Society for Information Science, Silver Springs, MD, USA, , Article 77 , 10 pages.
- SIGIR 2015 [Workshop] **Shuguang Han**, Daqing He, and Zhen Yue. Benchmarking the Privacy-Preserving People Search. arXiv preprint arXiv:1409.5524 (2014).

iConference 2013 [Poster] **Shuguang Han**, Zhen Yue and Daqing He. 2013. Automatic detection of search tactic in individual information seeking: A Hidden Markov Model approach. iConference 2013 Proceedings (pp. 712-716)

CIKM 2012 [Short] Zhen Yue, Jiepu Jiang, **Shuguang Han**, and Daqing He. 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). ACM, New York, NY, USA, 2595-2598.

SIGIR 2012 [Poster] Jiepu Jiang, Zhen Yue, **Shuguang Han**, and Daqing He. 2012. 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). ACM, New York, NY, USA, 1075-1076.

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## Patent

2015 Xing Yi, Zhen Yue, Alyssa Glass and **Shuguang Han**. Query-goal-mission structures. 2015. US Patent App. 14/984,172, 2015 (at Yahoo! Labs).

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## Skills

Programming Java, C++, Python and JavaScript (at Google), R, SPSS and Pig (at Yahoo!), Web Development (for Research Prototype)

Language Chinese (native), and English (fluent)

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## Services

Program 2017: EMNLP and CIKM

Committee 2016: EMNLP and CIKM

2015: EMNLP and SBP

2014: SBP

Reviewers 2018: iConference

2017: WWW, SIGIR, EMNLP, IUI, CIKM and iConference

2016: CIKM, EMNLP, WWW, IUI, UMAP, TOIS, IEEE TLT and IEEE Big Data.

2015: WWW, KDD, EMNLP, HyperText, SBP, PLOS ONE and iConference

2014: UMAP, HyperText, iConference and SBP