

# DAQING HE

BSc, MSc, PhD

Professor

Director, Information Retrieval, Integration and Synthesis (IRIS) Group

School of Computing and Information,

The University of Pittsburgh,

135 N. Bellefield Avenue, Pittsburgh, PA 15260, USA

*Email:* dah44@pitt.edu*Tel:* +1 412-624-2477 *Fax:* +1 412-648-7001*Homepage:* <http://www.pitt.edu/~dah44>IRIS Lab page: <http://crystal.exp.sis.pitt.edu:8080/iris/>ORCID: [orcid.org/0000-0002-4645-8696](http://orcid.org/0000-0002-4645-8696)

## RESEARCH INTERESTS AND EXPERTISE

Natural Language Processing, Information Retrieval, Intelligent and Social Information Access to Online Information, Academic Information Sharing in Big Data.

## EDUCATION

<b>PhD in Artificial Intelligence</b>	Division of Informatics (formerly Dept of Artificial Intelligence), University of Edinburgh, Edinburgh, UK	12/95 – 7/01
<b>Thesis Title</b>	References to Graphical Objects in Intelligent Multimodal Interfaces	
<b>Award</b>	Overseas Research Studentship, Colin & Ethel Gordon Scholarship	
<b>Supervisors</b>	Dr Graeme Ritchie and Dr John Lee	
<b>MSc in Computer Science</b>	Dept. of Computer Science & Engineering, Beijing University of Aeronautics and Astronautics, Beijing, China	9/92 – 3/95
<b>Dissertation Title</b>	A Study of Three-value Logic and Its Application to the Detection of Functional Hazards in Combinational Circuits.	
<b>Supervisors</b>	Prof. Qinqing Zhao and Prof. Huaimin Sun	
<b>BSc in Computer Science</b>	Dept. of Computer Science & Engineering, Beijing University of Aeronautics and Astronautics, Beijing, China	9/88 – 7/92
<b>Dissertation Title</b>	A Design of a Prolog Interpreter and its C Implementation	
<b>Supervisor</b>	Prof. Huaimin Sun	

## PROFESSIONAL EMPLOYMENT SUMMARY

<b>Full Professor</b>	School of Computing and Information, University of Pittsburgh, Pittsburgh, Pennsylvania	9/17- present
-----------------------	---	---------------

<b>Associate Professor</b>	School of Information Sciences, University of Pittsburgh, Pittsburgh, Pennsylvania	9/10 – 8/17
<b>Affiliate Professor</b>	Intelligent Systems Program, University of Pittsburgh, Pittsburgh, Pennsylvania	9/04 -- present
<b>Assistant Professor</b>	School of Information Sciences, University of Pittsburgh, Pittsburgh, Pennsylvania	9/04 – 8/10
<b>Research Scientist</b>	Institute for Advanced Computer Studies, The University of Maryland, College Park, Maryland	2/02 – 8/04
<b>Research Fellow</b>	School of Computing, Robert Gordon University, Aberdeen, United Kingdom	7/99 – 2/02

### HONORS AND AWARDS

**iConference 2017 Best Poster Award (2017).**

**ACM SIGIR CHIIR 2017 Best Student Paper Award (2017).**

**iConference 2013 Best Paper Award Honorable Mention (2013)**

**University of Pittsburgh Provost’s Faculty Diversity Seminar (2005)**

Provided by University of Pittsburgh

**Overseas Research Studentship (1995-1999)**

Provided by the UK government (highly competitive among all foreign students in UK).

**Colin & Ethel Gordon Scholarship (1995-1999)**

Provided by the University of Edinburgh (highly competitive among candidates applying to the university).

**The second place award of FengRu Cup student research competition (1995)**

Organized by Beijing University of Aeronautics and Astronautics (highly competitive among students in the university).

### PUBLICATIONS

#### **Papers in Refereed Journals**

##### *Articles accepted*

##### *Articles published*

1. Jeng, Wei, Yu Chi, Daqing He. “Social Science Data Repository in Data Deluge: A Case Study at ICPSR Workflow and Practices”, *The Electronic Libraries*. 35, No.4 (2017):626-649.
2. Jeng, Wei, Spencer DesAutels, Daqing He, Lei Li. “Information Exchange on an Academic Social Networking Site: A Multi-discipline Comparison on ResearchGate Q&A”. *Journal of the Association for Information Science and Technology*. 68:3 (March 2017): 638–652.

3. Wu, Dan, Wanyu Dang, Daqing He, and Renmin Bi. "Undergraduate information behaviors in thesis writing: A study using the Information Search Process model." *Journal of Librarianship and Information Science* (2016): 0961000616654960.
4. Lu, Chao, Chengzhi Zhang, and Daqing He. "Comparative analysis of book tags: a cross-lingual perspective." *The Electronic Library* 34, no. 4 (2016): 666-682.
5. Yi-ling Lin, Peter Brusilovsky, Daqing He. "Finding Cultural Heritage Images through a Dual-Perspective Navigation Framework". *Information Processing and Management*. 52:5 (2016): 820-839
6. Jeng, Wei, Jiepu Jiang, Daqing He. "Users' Perceived Difficulties and Corresponding Reformulation Strategies in Google Voice Search." *Journal of Library and Information Studies* 14, no. 1 (2016): 1-14.
7. Shuguang Han, Zhen Yue, and Daqing He. "Understanding and Supporting Cross-Device Web Search for Exploratory Tasks with Mobile Touch Interactions." *ACM Transactions on Information Systems (TOIS)* 33:4 (2015): 16.
8. Eleanor Mattern , Wei Jeng , Daqing He , Liz Lyon , Aaron Brenner. "Using participatory design and visual narrative inquiry to investigate researchers' data challenges and recommendations for library research data services", *Program: electronic library and information systems*, 49: 4 (2015): 408 - 423
9. Yi-ling Lin, Christoph Trattner, Peter Brusilovsky, Daqing He. "The Impact of Image Descriptions on User Tagging Behavior: A Study of the Nature and Functionality of Crowdsourced Tags". *Journal of the Association for Information Science and Technology*. 66:9 (September 2015):1785-1798, DOI: 10.1002/asi.23292
10. Wei Jeng, Daqing He, Jiepu Jiang. "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 (May 2015):890-904. DOI: 10.1002/asi.23225
11. Zhen Yue, Shuguang Han, Daqing He, Jiepu Jiang. "Influences on Query Reformulation in Collaborative Web Search" *IEEE Computers*. 47:3 (2014) 46-53.
12. Dan Wu, Daqing He, Jin Qiu, Ruonan Lin, Yang Liu. "Comparing social tags with subject headings on annotating books: a study comparing the information science domain in English and Chinese", *Journal of Information Science*. 39:2(April 2013): 169-187 DOI: 10.1177/0165551512451808
13. Daqing He, Dan Wu, Zhen Yue, Anna Fu, Kim Thien Vo. "Undergraduate Students' Interaction with Online Information Resources in Their Academic Tasks: A Comparative Study". *Aslib Journal of Information Management (old name Aslib Proceedings)* 64:6 (2012): 615 – 640.
14. Dan Wu, Daqing He, Xiaomei Xu. "A Study of Relevance Feedback Techniques in Interactive Multilingual Information Access". *Library Hi Tech*, 30:3(2012): 523-544 DOI: 10.1108/07378831211266645
15. Dan Wu, Daqing He. "Exploring the further integration of machine translation in English-Chinese cross language information access", *Program: electronic library and information systems*, 46.4 (2012): 429 - 457
16. Dan Wu, Daqing He, Huilin Wang, "A Relevance Feedback based Query Translation Enhancement Technique in Cross Language Information Retrieval". *Journal of the China Society for Scientific and Technical Information* 2012(4): 398-406

17. Dan Wu, Daqing He, Wei Lu. "The Extraction and Translation of Named Entity in Cross Language Information Retrieval." Document, Information & Knowledge. 2012(3):13-19.
18. Dan Wu, Daqing He, Jiepu Jiang, Wuyi Dong, Kim Thien Vo. "The State of iSchools: an Analysis on Academic Research and Graduate Education." Journal of Information Science. 38.1 (2012): 15-36
19. Daqing He, Dan Wu. "Guest Editorial: Multilinguality in digital libraries." The Electronic Library. 30.2 (2012): 161-'64
20. Dan Wu, Daqing He, Bo Luo. "Multilingual Needs and Expectations in Digital Libraries: A Survey of Academic Users with Different Languages." The Electronic Library. 30.2 (2012): 182-197.
21. Leanne Bowler, Wan-Yin Hong, Daqing He. "The Visibility Of Health Web Portals For Teens: A Hyperlink Analysis." Online Information Review. 35.3 (2011): 443 - 470.
22. Yi-ling Lin, Peter Brusilovsky, Daqing He. "Improving self-organising information maps as navigational tools: a semantic approach", Online Information Review, 35. 3 (2011), pp.401 - 424
23. Bowler, Leanne and Oh, Jung Sun and He, Daqing and Callery, Bernadette and Bowker, Geof and Koshman, Sherry and Cox, Richard J. "Issues in User-Centered Design in LIS." Library Trends, 59.4 (2011). pp. 721-752. ISSN E-ISSN: 1559-0682 Print ISSN: 0024-2594
24. He, Daqing, Dan Wu. "Multilingual Information Resources and Technologies in Digital Libraries." Library and Information Service. 55.2 (2011):5.
25. Wu, Dan, Gu Nanhui, He Daqing. "A Survey on Digital Library Users' Multilingual Information Needs." Library and Information Service. 55.2 (2011): 6-10.
26. Wu, Dan, Daqing He. "Experiment and Evaluation of User Relevance Feedback in Multilingual Information Access." Library and Information Service. 55.2 (2011): 21-24.
27. He, Daqing, Dan Wu. "Enhancing Query Translation with Relevance Feedback in Translingual Information Retrieval." Information Processing and Management. 47.1 (2011): 1-17.
28. Ahn, Jae-wook, Peter Brusilovsky, Jonathan Grady, Daqing He. "Semantic Annotation Based Exploratory Search for Information Analysts." Information Processing and Management. 46.4(2010): 383-402.
29. He, Daqing, Ming Mao, Yefei Peng, Dan Wu. "Support Information Access in E-Learning by Integrating Digital Libraries and Ontology." Online Information Review. 34.5 (2010): 704-728.
30. Qiang Pu, Daqing He. "Semantic Clustering Based Relevance Language Model." Information Technology Journal. 9.2 (2010): 236-246.
31. Wu, Dan, Daqing He. "Signal Boosting for Robust Data Fusion in Speech Retrieval." International Journal of Innovative Computing, Information and Control. 6.3B (2010): 1525-1536.
32. Wu, Dan, Daqing He, Huilin Wang. "Cross-Language Query Expansion Using Pseudo Relevance Feedback." Journal of the Chinese Society for Scientific and Technical Information. 29.2 (2010): 232-239
33. He, Daqing, Graeme Ritchie, John Lee. "Reference to Graphics Objects in Intelligent Multimodal Systems." Knowledge Base Systems 21.7 (2008): 617-628

34. Wu, Dan, Daqing He, Huilin Wang, Chongde Shi, Chengzhi Zhang. "Does Query Length Matter: A Comparison of Query Expansion Methods in English-Chinese Cross-Language Information Retrieval." Journal of Computational Information Systems, 4.3 (2008):763-770.
35. He, Daqing, Peter Brusilovsky, Jaewook Ahn, Jonathan Grady, Rosta Farzan, Yefei Peng, Yiming Yang, Monica Rogati. "An Evaluation of Adaptive Filtering in the Context of Realistic Task-Based Information Exploration." Information Processing and Management 44.2 (2008):511-533.
36. Oard, Douglas W., Daqing He, Jianqiang Wang. "User Assisted Query Translation for Interactive Cross-Language Information Retrieval." Information Processing and Management 44.1 (2008): 181-211.
37. He, Daqing, Douglas W. Oard, Jianqiang Wang, Jun Luo, Dina Demner-Fushman, Kareem Darwish, Philip Resnik, Sanjeev Khudanpur, Michael Nossal and Anton Leuski. "Making MIRACLES: Interactive Translingual Search for Cebuano and Hindi." ACM Transactions of Asian Language Information Processing 2.3 (2003): 219-244.
38. He, Daqing, Ayse Goker, David Harper. "Combining Evidence for Automatic Web Session Identification." Information Processing and Management 38.5 (2002): 727-742.
39. He, Huacan, Yonghuai Liu, Daqing He, and Hua Cheng. "Generalized Logic in Experience Thinking". Science in China (series E) Vol. 39, No. 3 (1996) 226-234.
40. He, Daqing, Qinqing Zhao. "Three-Value Logic Equations and the Detection of Functional Hazards in Combinational Switching Circuits." Journal of Beijing University of Aeronautics & Astronautics. 21.3 (1995): 38-44.

#### **Monographs and Edited Books**

1. He, Daqing, Wei Jeng. "Scholarly Collaboration on the Academic Social Web." Synthesis Lectures on Information Concepts, Retrieval, and Services. February 2016. 106 pages. Morgan Claypool.

#### **Chapters in Edited Books**

1. He, Daqing, Dan Wu. "Multilingual Resources and Services in Chinese Academic Libraries: A Survey." Library and Information Science Trends and Research: Asia-Oceania Region. Amanda Spink, Diljit Singh Eds. Emerald Group Publishing Limited 2012.
2. He, Daqing, Peter Brusilovsky, Jonathan Grady, Jaewook Ahn, Yiming Yang, Monica Rogati. "EDIE: An Evaluation Dataset for Task-Based Information Exploration." Handbook of Natural Language Processing and Machine Translation: DARPA Global Autonomous Language Exploitation Joseph Olive, Caitlin Christianson and John McCary Eds. Springer, New York 2011.
3. Oard, D. W., Brusilovsky, P., He, D., Klavans, J., Loboda, T., Qian, L., Soergel, D., and Zhang, P. (2011) Formative Evaluation for Multilingual Multimedia Search and Sense-Making. In: J. Olive, C. Christianson and J. McCary (eds.): Handbook of Natural Language Processing and Machine Translation: DARPA Global Autonomous Language Exploitation. New York: Springer, pp. 915--922.
4. He, Daqing, Jianqiang Wang. "Cross-Language Information Retrieval." Information Retrieval: Searching in the 21<sup>st</sup> Century. Ayse Goker, John Davies Eds. John Wiley and Sons, 2009. 233-253.
5. He, Daqing, Hong Xu. "Chapter 8: User Studies: Heting Chu & Yin Zhang." Research Fronts in Library and Information Science in the West. Beijing: Renmin University Press (Series on Research Fronts in the Humanities and Social Sciences in the West), 2007. 210-242.

6. He, Daqing. "Integrating Diversity and Multicultural Education into a Digital Library Course." Diversity Across the Curriculum: A Guide for Faculty in Higher Education. Eds. J. Branche, J.W. Mullennix and E.R. Cohn. Anker Publishing, 2007. 298-302.

### Papers in Refereed Conferences

1. Han, Shuguang, Daqing He, and Yu Chi. "Understanding and modeling behavior patterns in cross - device web search." Proceedings of the Association for Information Science and Technology 54, no. 1 (2017): 150-158.
2. Igor Labutov, Yun Huang, Peter Brusilovsky, and Daqing He. 2017. Semi-Supervised Techniques for Mining Learning Outcomes and Prerequisites. In Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD '17). ACM, New York, NY, USA, 907-915. DOI: <https://doi.org/10.1145/3097983.3098187>
3. Jiang, Jiepu, Daqing He, James Allan. "Comparing In Situ and Multidimensional Relevance Judgments". In Proceeding of the ACM SIGIR 2017. (full paper)
4. Meng, Rui, Sanqiang Zhao, Shuguang Han, Daqing He, Peter Brusilovsky. "Deep Keyphrase Generation". In Proceedings of ACL 2017. (full paper)
5. Jiang, Jiepu, Daqing He, Diane Kelly, James Allan. "Understanding Ephemeral State of Relevance", Proceedings of the 2017 Conference on Human Information Interaction and Retrieval (CHIIR 2017), pp. 137-146. ACM, 2017. (full paper, Best Student Paper)
6. Chi, Yu, Tingting Jiang, Daqing He. "Towards an Integrated Clickstream Data Analysis Framework for Understanding Web Users' Information Behavior". In Proceedings of iConference 2017. Wuhan, China. March 2017. (full paper).
7. Meng, Rui, Zexin Zhao, Yu Chi, Daqing He. "Automatic Course Website Discovery from Search Engine Results". In Proceedings of iConference 2017. (poster)
8. Zhang, Danchen, Daqing He, Sanqiang Zhao, Lei Li. "Wikipedia Based Automatic Diagnosis Prediction in Clinical Decision Support System". In the Proceeding of iConference 2017. (poster).
9. Zhao, Sanqiang, Daqing He, Danchen Zhang, Lei Li, Rui Meng. "Automatic ICD Code Assignment to Medical Text with Semantic Relational Tuples". In the Proceedings of iConference 2017. (poster).
10. Li, Lei, Daqing He, Danchen Zhang, Yu Chi, Chengzhi Zhang. "Types of Tags for Annotating Academic Blogs". In the Proceedings of iConference 2017. (poster).
11. Zhao, Sanqiang, Shuguang Han, Rui Meng, Daqing He, Danchen Zhang. "Learning Semantic Representation from Restaurant Reviews: A Study of Yelp Dataset". In the Proceedings of iConference 2017. (poster).
12. Wu, Peng, Daqing He, and Jiang Song. "A mental model approach for category hierarchy maintenance on sellers' self-input items in e-commerce websites." In 2016 11th Iberian Conference on Information Systems and Technologies (CISTI), pp. 1-7. IEEE, 2016.
13. Huang, Yun, Michael Yudelso, Shuguang Han, Daqing He, and Peter Brusilovsky. "A Framework for Dynamic Knowledge Modeling in Textbook-Based Learning." In Proceedings of the 2016 Conference on User Modeling Adaptation and Personalization, pp. 141-150. ACM, 2016.

14. Li, Lei, Daqing He, and Chengzhi Zhang. "Evaluating Academic Answer Quality: A Pilot Study on ResearchGate Q&A." In International Conference on HCI in Business, Government and Organizations, pp. 61-71. Springer International Publishing, 2016.
15. Han, Shuguang; Zhang, Danchen; He, Daqing; Cheng, Qikai. "User exploration of slider facets in interactive people search system". In Proceedings of the iConference 2016. 2016.
16. Jeng, Wei; Mattern, Eleanor; He, Daqing; Lyon, Liz. "Unpacking the "black box": a preliminary study of visualizing humanists and social science scholars' data and research processes" In Proceedings of the iConference 2016. 2016.
17. Han, Shuguang, Daqing He, Zhen Yue, and Jiepu Jiang. "Contextual Support for Collaborative Information Retrieval." In Proceedings of the 2016 ACM Conference on Human Information Interaction and Retrieval, pp. 33-42. ACM, 2016.
18. Leanne Bowler, Jocelyn Monahan, Wei Jeng, Jung Sun Oh, and Daqing He. 2015. The quality and helpfulness of answers to eating disorder questions in *Yahoo! Answers*: teens speak out. In *Proceedings of the 78th ASIS&T Annual Meeting: Information Science with Impact: Research in and for the Community* (ASIST '15). American Society for Information Science, Silver Springs, MD, USA, , Article 42 , 10 pages.
19. Han, Shuguang, Daqing He, Zhen Yue, & Peter Brusilovsky (2015). "Supporting Cross-Device Web Search with Social Navigation-Based Mobile Touch Interactions." *User Modeling, Adaptation and Personalization*. Springer International Publishing, 2015. 143-155.
20. Peng Wu, Jiamin Wang, and Daqing He. "Personalized Recommendation of E-Commerce Website Category Hierarchy Based on Web Usage Mining and Multidimensional Scaling." *e-Business Engineering (ICEBE), 2015 IEEE 12th International Conference on*. (pages 80-86) IEEE, 2015.
21. Spencer Goodwin, Wei Jeng, Daqing He. "Changing Communication on ResearchGate through Interface Updates." In the proceedings of Annual Meeting of ASIST 2014. (poster)
22. Jiepu Jiang, Daqing He, James Allan. "Searching, Browsing, and Clicking in a Search Session: Changes of User Behaviors by Tasks and Over Time." In the proceedings of ACM SIGIR 2014. (full paper)
23. Dan Wu, Daqing He. "Comparing IPL2 and Yahoo! Answers: A Case Study of Digital Reference and Community Based Question Answering". The proceedings of iConference 2014, Berlin Germany. (short paper)
24. Zhen Yue, Shuguang Han, Daqing He. "Modeling Search Processes using Hidden States in Collaborative Exploratory Web Search". the 17th ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2014) (full paper)
25. Jiang, Jiepu, Wei Jeng, and Daqing He. "How do users respond to voice input errors?: lexical and phonetic query reformulation in voice search." Proceedings of the 36th international ACM SIGIR conference on Research and development in information retrieval. ACM, 2013.
26. I-Ling Cheng, Daqing He, Brenda G Jordan. "Exploring Factors Influencing K-12 Teachers Information-Seeking Behaviors on Educational Portals". World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education. (2013) 1831-1839. (full paper)

27. Leanne Bowler, Eleanor Mattern, Wei Jeng, Jung Sun Oh and Daqing He. "I know what you are going through": Answers to Informational Questions about Eating Disorders in Yahoo! Answers: A Qualitative Study" The 76th Annual Meeting of the Association for Information Science and Technology. (ASIST 2013) (full paper)
28. Jung Sun Oh, Daqing He, Wei Jeng, Eleanor Mattern and Leanne Bowler. "Linguistic Characteristics of Eating Disorder Questions on Yahoo! Answers – Content, Style and Emotion" The 76th Annual Meeting of the Association for Information Science and Technology. (ASIST 2013). (full paper)
29. Jiepu Jiang, Daqing He, Chaoqun Ni. 2013. "The Correlations Between Article Citation and References' Quality Measures: What Can We Learn?" The 76th Annual Meeting of the Association for Information Science and Technology. (ASIST 2013). (poster)
30. Yue Zhen, Shuguang Han, Daqing He. "An Investigation on the Query Behavior in Task-based Collaborative Exploratory Web Search" The 76th Annual Meeting of the Association for Information Science and Technology. (ASIST 2013) (full paper)
31. Wei Jeng, Jiepu Jiang, Daqing He. 2013. "Users' Perceived Difficulties and Corresponding Reformulation Strategies in Voice Search". The 7th Annual Symposium on Human-Computer Interaction and Information Retrieval (HCIR 2013) (short paper)
32. Shuguang Han, Daqing He, Jiepu Jiang, Zhen Yue. 2013. "Supporting Exploratory People Search: A Study of Factor Transparency and User Control." The 22nd ACM International Conference on Information and Knowledge Management (CIKM'13), San Francisco, CA, USA. (full paper)
33. Jiepu Jiang, Chaoqun Ni, Daqing He, Wei Jeng. 2013. "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), Indianapolis, IN, USA: 135-138 (short paper)
34. Shuguang Han, Daqing He, Peter Brusilovsky, Zhen Yue. "Coauthor Prediction for Junior Researchers". SBP 2013: Social Computing, Behavioral-Cultural Modeling and Prediction. (SBP 2013) (full paper)
35. Shah, C., He, D., Radford, M. L., Oh, J. S. & Connaway, L. S. (2013). "Collaboration in Action: Enabling Innovative Scholarship with Social and Crowdsourcing Services". Panel at the iConference 2013, Fort Worth, TX, February 12-15, 2013. (panel)
36. Dan Wu, Daqing He. (2013). "A study on Q&A services between community-based question answering and collaborative digital reference in two languages". iConference 2013 Proceedings (pp. 326-337). doi:10.9776/13205. (full paper, **best paper honorable mention**)
37. Han, Shuguang; Yue, Zhen; He, Daqing. "Automatic Identifying Search Tactic in Individual Information Seeking: A Hidden Markov Model Approach". iConference 2013. (short paper)
38. Jiepu Jiang, Daqing He, Shuguang Han, Wei Jeng. "Is the Article Crucial to My Research? Evaluating Task-Oriented Impacts of Scientific Articles in Information Seeking". iConference'13. (short paper)
39. Zhen Yue, Shuguang Han, Daqing He, "A Comparison of Action Transitions in Individual and Collaborative Exploratory Web Search." The eighth Asia information retrieval societies conference, 2012 (full paper)

40. Jiepu Jiang, Daqing He, Shuguang Han, Zhen Yue, Chaoqun Ni. 2012. "Contextual Evaluation of Query Reformulations in a Search Session by User Simulation". In Proceedings of the 21st International Conference on Information and Knowledge Management (CIKM '12): 2635-2638. (poster)
41. Zhen Yue, Jiepu Jiang, Shuguang Han, Daqing He. 2012. "Where do the Query Terms Come from? An Analysis of Query Reformulation in Collaborative Web Search". In Proceedings of the 21st International Conference on Information and Knowledge Management (CIKM '12): 2595-2598. (poster)
42. Shuguang Han, Daqing He, Zhen Yue, Jiepu Jiang and Wei Jeng. IRIS-IPS: "An Interactive People Search System for HCIR Challenge". 2012 Human-Computer Information Retrieval Symposium (HCIR Challenge 2012), Boston, IBM Research (short paper)
43. Bowler, L., Oh, J.S., He, D., Mattern, E. and Jeng, W. "Eating disorder questions in Yahoo! Answers: Information, conversation, or reflection?" Proceedings of the American Society for Information Science and Technology, 49 (1). 1-11. (full paper)
44. Jeng, W., He, D., Jiang, J. & Zhang, Y. (2012). "Groups in Mendeley: Owners' Descriptions and Group Outcomes." In Proceedings of the ASIS&T 2012 Annual Meeting (short paper)
45. Jiepu Jiang, Zhen Yue, Shuguang Han, Daqing He, "Finding readings for scientists from social websites", Proceedings of the 35th international ACM SIGIR conference on Research and development in information retrieval, 1075-1076, 2012 (poster)
46. Li, Q. and He, D. (2011). "Facilitating image exploratory search with relations". Proceedings of the American Society for Information Science and Technology, Vol. 48, No. 1, pp. 1-4. (full paper)
47. Jiepu Jiang, Daqing He, Chaoqun Ni. Social Reference: Aggregating Online Usage of Scientific Articles in CiteULike for Clustering Academic Resources. ACM/IEEE Joint Conference on Digital Libraries (JCDL 2011), June 13-17, 2011 Ottawa, Canada. (poster)
48. Dan Wu, Daqing He, Jiepu Jiang, Wuyi Dong, and Kim Thien Vo. 2011. "Academic research in iSchools: state and implications". In *Proceedings of the 2011 iConference* (iConference '11). ACM, New York, NY, USA, 203-210. DOI=10.1145/1940761.1940789 <http://doi.acm.org/10.1145/1940761.1940789> (full paper)
49. Leanne Bowler, Daqing He, and Wan Yin Hong. 2011. "Who is referring teens to health information on the web?: hyperlinks between blogs and health web sites for teens". In *Proceedings of the 2011 iConference* (iConference '11). ACM, New York, NY, USA, 238-243. DOI=10.1145/1940761.1940794 <http://doi.acm.org/10.1145/1940761.1940794> (full paper)
50. Dan Wu, Daqing He. A Study of Query Translation using Google Machine Translation System. In Proceedings of the 2010 International Conference on Computational Intelligence and Software Engineering (CiSE 2010), Dec. 2010, Wuhan, China (full paper).
51. Abhay Harpale, Yiming Yang, Siddharth Gopal, Daqing He and Zhen Yue. CiteData: A New Multi-faceted Dataset for Evaluating Personalized Search Performance, ACM 19<sup>th</sup> Conference on Information and Knowledge Management (CIKM), Toronto, October 2010. (full paper)
52. Dan Wu, Bo Luo, Daqing He. How Multilingual Digital Information is Used: A Study in Chinese Academic Libraries. ISM 2010, Wuhan, China (full paper).

53. Daqing He, Dan Wu. "Exploring the Further Integration of Machine Translation in Multilingual Information Access." The Fifth Annual iConference, Champaign, IL, February 2010. 323-328. (full paper).
54. Dan Wu, Nanhui Gu, Daqing He. "The Usages and Expectations of Multilingual Information Access in Chinese Academic Digital Libraries." The Fifth Annual iConference, Champaign, IL, February 2010. 317-322. (full paper).
55. Qiang, Pu, Daqing He. "Pseudo Relevance Feedback using Semantic Clustering in Relevance Language Model." ACM 18<sup>th</sup> Conference on Information and Knowledge Management (CIKM), Hong Kong, November 2009. (short paper).
56. Li, Qi, Ming Mao, Daqing He. "A Study of Relation Annotation in Business Environments Using Web Mining." IEEE International Conference on Semantic Computing, 2009. (full paper)
57. Qiang, Pu, Daqing He, Qi Li. "Query Expansion for Effective Geographic Information Retrieval." Evaluating Systems for Multilingual and Multimodal Information Access, 9th Workshop of the Cross-Language Evaluation Forum, CLEF 2008, Aarhus, Denmark, Revised Selected Papers. Springer. 2009. (full paper)
58. He, Daqing, Dan Wu. "Translation Enhancement: A New Relevance Feedback Method for Cross-Language Information Retrieval." ACM 17th Conference on Information and Knowledge Management (CIKM), 2008. 585-594. (full paper)
59. He, Daqing, Dan Wu. "Toward a Robust Data Fusion for Document Retrieval." IEEE International Conference on Natural Language Processing and Knowledge Engineering (IEEE NLP-KE), 2008. 338-345. (*Winner of "Excellent Paper Award"*). (full paper)
60. Wu, Dan, Daqing He, Heng Ji, & Ralph Grishman. "The Effects of High Quality Translations of Named Entities in Cross-Language Information Exploration." 2008 IEEE International Conference on Natural Language Processing and Knowledge Engineering (IEEE NLP-KE), 2008. 443-450. (full paper)
61. Wu, Dan, Daqing He. "Ice-Tea: An Interactive Cross-Language Search Engine with Translation Enhancement." Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2008. 882. (demo)
62. Ahn, Jae-wook, Peter Brusilovsky, Daqing He, Jonathan Grady, Qi Li. "Personalized Web Exploration with Task Models." World Wide Web Conference, 2008. 1-10. (full paper)
63. He, Daqing, Peter Brusilovsky, Jonathan Grady, Qi Li, and Jae-wook Ahn. "How Up-to-date Should It Be: the Value of Instant Profiling and Adaptation in Information Filtering?" IEEE/WIC/ACM International Conference on Web Intelligence, 2007. 699-705. (full paper)
64. Yang, Yiming, Abhimanyu Lad, Ni Lao, Abhay Harpale, Bryan Kisiel, Monica Rogati, Peter Brusilovsky, He, Daqing. "Utility-based Information Distillation Over Temporally Sequenced Documents." Annual International ACM SIGIR Conference on Research & Development on Information Retrieval (SIGIR), 2007. 31-38. (full paper)
65. Ahn, Jae-wook, Peter Brusilovsky, Jonathan Grady, Daqing He, Sue Yeon Syn. "Open User Profiles for Adaptive News Systems: Help or Harm?" The International World Wide Web Conference, 2007. 11-20. (full paper)

66. Peng, Yefei, Daqing He, Ming Mao. "Geographic Named Entity Disambiguation with Automatic Profile Generation." IEEE/WIC/ACM International Conference on Web Intelligence, 2006. 522-525. (short paper)
67. Peng, Yefei, Daqing He. "Direct Comparison of Commercial and Academic Retrieval Systems: An Initial Study." ACM Conference for Information and Knowledge Management (CIKM), 2006. 806-807. (short paper)
68. He, Daqing, Ming Mao, and Yefei Peng. "DiLight: a Digital Library Based E-Learning Environment for Learning Digital Libraries." World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education, 2006. 2845-2852. (full paper)
69. Mao, Ming, Yefei Peng, Daqing He. "DiLight: An Ontology-Based Information Access System for e-Learning Environments." Annual International ACM SIGIR Conference on Research & Development on Information Retrieval (SIGIR), 2006. 733. (demo)
70. He, Daqing, Yefei Peng. "Comparing Two Blind Relevance Feedback Techniques." Annual International ACM SIGIR Conference on Research & Development on Information Retrieval (SIGIR), 2006. 649-650. (short paper)
71. He, Daqing. "A Study of Self-Organizing Maps in Interactive Relevance Feedback." IEEE International Conference on Information Technology: New Generations (ITNG). Las Vegas, Nevada: April, 2006. 394-401. (full paper)
72. Oard, Douglas W., David Doermann, Bonnie Dorr, Daqing He, Philip Resnik, Amy Weinberg, William Byrne, Sanjeev Khudanpur David Yarowsky, Anton Leuski, Philipp Koehn, and Kevin Knight. "Desperately Seeking Cebuano." Human Language Technology-North American Chapter for Association of Computational Linguistics Conference. Edmonton, Canada: 2003. (shot paper)
73. He, Daqing, Jianqiang Wang, Douglas W. Oard, Michael Nossal. "User-Assisted Query Translation for Interactive CLIR." Annual International ACM SIGIR Conference on Research & Development on Information Retrieval (SIGIR). Toronto, Canada: 2003. 461. (demo)
74. Goker, Ayse, Daqing He. "Personalization via Collaboration in Web Retrieval System." 76th Annual Conference for American Society for Information Science and Technology (ASIST), 2003. 357-365. (full paper)
75. Goker, Ayse, Daqing He. "Analysing Web Search Logs to Determine Session Boundaries for User-Oriented Learning." Adaptive Hypermedia and Adaptive Web-Based Systems, International Conference. Italy: Trento. Eds. Peter Brusilovsky, Oliviero Stock, Carlo Strapparava. LNCS 1892, Springer. Berlin, Germany: 2000. 319-322. (short paper)
76. He, Daqing, Ayse Goker. "Detecting Session Boundaries from Web User Logs." The 22<sup>nd</sup> Annual Colloquium for British Computer Society Information Retrieval Specialist Group on Information Retrieval Research. Cambridge, UK: 2000. 57-66. (full paper)
77. He, Daqing, Graeme Ritchie, John Lee. "Resolving References to Graphical Objects in Multimodal Queries by Constraint Satisfaction." Advances in Multimodal Interfaces, the 3rd International Conference. China: Beijing. Eds. Tieniu Tan, Yuanchun Shi, Wen Gao. LNCS, 1948. Springer. Berlin, Germany: 2000. 8-15. (full paper)

78. Liu, Boyang, Daqing He, Qiping Zhao. "An Improvement on Self-Organising Feature Map Algorithm." International Conference for Young Computer Scientist. Beijing, China: 1995. (full paper)

#### **Papers in non-refereed International Conferences**

1. Jiepu Jiang, Daqing He. PITT at TREC 2013. Different Effects of Click-through and Past Queries on Whole Search Session Performance. In Proceedings of the 22<sup>nd</sup> Text REtrieval Conference (TREC 2013).
2. Jiepu Jiang, Daqing He, Shuguang Han. 2012. On Duplicate Results in a Search Session. In Proceedings of the 21st Text REtrieval Conference (TREC 2012).
3. Jiepu Jiang, Shuguang Han, Jia Wu, Daqing He. PITT at TREC 2011 Session Track. In Proceedings of 20th Text REtrieval Conference (TREC 2011), 2011.
4. Daqing He, Dan Wu. Graduate Education in iSchools: Status and Implications. The Third International Symposium on Library and Information Science Education in the Digital Age, October 2010, Wuhan
5. Qi Li, Daqing He, "Searching for entities: when retrieval meets extraction". Text REtrieval Conference (TREC) 2009.
6. Zhen Yue, Daqing He. "A Model for Understanding Collaborative Information Behavior in E-Discovery", Text REtrieval Conference (TREC) 2009.
7. Zhen Yue, Jon Walker, Yilin Lin, Daqing He. "Pitt@TREC08: An Initial Study of Collaborative Information Behavior in E-Discovery." Text REtrieval Conference (TREC), 2008. 1-10.
8. Qiang Pu, Daqing He, Qi Li. "University of Pittsburgh at Geo (CLEF) 2008: Towards Effective Geographic Information Retrieval." Cross-Language Evaluation Forum (CLEF), 2008. 1-9.
9. He, Daqing, Yefei Peng. "Pitt at TREC 2006: Identifying Experts via Email Discussions." Text REtrieval Conference (TREC), 2006. 1-10.
10. He, Daqing, Jae-wook Ahn. "Pitt at TREC 2005: HARD and Enterprise." Text REtrieval Conference (TREC), 2005. 896-908.
11. He, Daqing, Jae-wook Ahn. "Pitt at CLEF05: Data Fusion for Spoken Document Retrieval." Cross-Language Evaluation Forum (CLEF), 2005. 773-782.
12. He, Daqing, Jianqiang Wang, Jun Luo, Douglas W. Oard. "iCLEF 2004 at Maryland: Summarization Design for Interactive Cross-Language Question Answering." Cross-Language Evaluation Forum (CLEF), 2004. 348-362.
13. He, Daqing, Dina Demner-Fushman, Damianos Karakos, Douglas W. Oard, Sanjeev Khudanpur. "Improving Passage Retrieval via Interactive Elicitation and Language Modeling." Text Retrieval Conference (TREC), 2004. 1-8.
14. He, Daqing, Dina Demner-Fushman. "HARD Experiment at Maryland: From Need Negotiation to Automated HARD Process." Text REtreival Conference (TREC), 2003. 1-8.
15. Dorr, Bonnie J., Daqing He, Jun Luo, Douglas W. Oard, Richard Schwartz, Jianqiang Wang, and David Zajic. "iCLEF 2003 at Maryland: Translation Selection and Document Selection." Cross-Language Evaluation Forum (CLEF). Trondheim, Norway: 2003. 435-449.

16. He, Daqing, Hyuk Ro Park, G. Craig Murray, Michael Subotin, and Douglas W. Oard. "TDT2002 Topic Tracking at University of Maryland." Workshop of Topic Detection and Tracking (TDT). Nov. 2002. 1-6.
17. He, Daqing, Jianqiang Wang, Douglas W. Oard, Michael Nossal. "Comparing User-assisted and Automatic Query Translation." Cross Language Evaluation Forum (CLEF). Sept. 2002. 400-415

### **Papers in Refereed Workshops**

1. Chi, Yu, Shuguang Han, Daqing He, and Rui Meng. "Exploring Knowledge Learning in Collaborative Information Seeking Process." In the Proceedings of Search as Learning (SAL), a workshop of SIGIR 2016.
2. Lei Li, Daqing He, Wei Jeng, Spencer Goodwin, and Chengzhi Zhang. "Answer Quality Characteristics and Prediction on an Academic Q&A Site: A Case Study on ResearchGate." In Proceedings of the 24th International Conference on World Wide Web Companion, pp. 1453-1458. International World Wide Web Conferences Steering Committee, 2015.
3. Shuguang Han, Daqing He, Zhen Yue. Benchmarking the Privacy-Preserving People Search. Privacy-Preserving IR (PIR), a workshop of ACM SIGIR 2014.
4. Shuguang Han, Daqing He, Jiepu Jiang, Zhen Yue. 2013. Recommending Program Committee Candidates for Academic Conferences. In Computational Scientometrics: Theory and Applications (CSTA 2013), a workshop of CIKM'13, San Francisco, CA, USA.
5. Jiepu Jiang, Daqing He. 2013. Simulating User Selections of Query Suggestions. In SIGIR'13 workshop on Modeling User Behavior for Information Retrieval Evaluation (MUBE 2013), Dublin, Ireland
6. Zhen Yue, Shuguang Han, Jiepu Jiang, and Daqing He. 2012. 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)*. ACM, New York, NY, USA, 59-66. DOI=10.1145/2389686.2389699 <http://doi.acm.org/10.1145/2389686.2389699>
7. Qi Li, Daqing He, Finding Support Documents with a Logistic Regression Approach, Proceedings of the First International Workshop on Entity-Oriented Search (EOS), a workshop of ACM SIGIR 2011. Beijing China, July 28, 2011.
8. Yue, Zhen, Daqing He. Exploring Collaborative Information Behavior in Context: A Case Study of E-discovery. In the proceedings of 2<sup>nd</sup> International Workshop on Collaborative Information Seeking, a workshop of the 2010 ACM conference on Computer Supported Cooperative Work. 2010.
9. Yue, Zhen, Abhay Harpale, Daqing He, Jonathan Grady, Yiling Lin, Jon Walker, Siddharth Gopal, Yiming Yang. "CiteEval for Evaluating Personalized Social Web Search." The Future of Information Retrieval Evaluation: A Workshop at ACM SIGIR, 2009.
10. Wu, Dan, Daqing He, Heng Ji, & Ralph Grishman. "A Study of Using an Out-Of-Box Commercial MT System for Query Translation in CLIR." 2nd International ACM Workshop on Improving Non-English Web Searching (iNEWS08): A Workshop at ACM CIKM, 2008.
11. Jiang, Tingting, Daqing He. "Redefining Social Network Services: A Solution to Personal Information and Knowledge Management." Social Media Analysis: A Workshop at International Conference on Web Intelligence, 2007.

12. Mao, Ming, Yefei Peng, Daqing He. "Ontology-based Content Management and Access Framework for Supporting E-Learning Systems." 2nd International Workshop on Web Support Systems: A Workshop at Web Intelligence, 2006.
13. He, Daqing, Douglas W. Oard Lynne, Plettenberg. "Studying the Use of Interactive Multilingual Information Retrieval." New Directions of Multilingual Information Access: A Workshop at SIGIR, 2006.
14. Han, Shen, Ayse Goker, Daqing He. "Web User Search Pattern Analysis for Modeling Query Topic Changes." User Modeling for Context-Aware Applications: A Workshop at 8th International Conference on User Modeling, July 2001.
15. He, Daqing, Graeme Ritchie, and John Lee. "Disambiguation Between Visual Display and Represented Domain in Multimodal Interfaces." Combining AI & Graphics for the Interface of the Future: A Workshop at European Conference on Artificial Intelligence. Brighton, New York: 1998.
16. He, Daqing, Graeme Ritchie, and John Lee. "Referring to Displays in Multimodal Interfaces." Referring Phenomena in a Multimedia Context and Their Computational Treatment: A Workshop at EACL/ACL Madrid, Spain: 1997.

#### **Papers in non-published format**

1. He, Daqing. "References to Graphical Objects in Intelligent Multimodal Interfaces." PhD thesis. Division of Informatics, University of Edinburgh, 2000.
2. He, Daqing. "A Study of Three-value Logic and Its Application to the Detection of Functional Hazards in Combinational Circuits." Master's of Science Dissertation. Department of Computer Science and Engineering, Beijing University of Aeronautics and Astronautics. Beijing, China: 1995.

#### INVITED TALKS AND PRESENTATIONS

1. Scholarly Information Behaviors on Academic Social Networking Services. Nanjing, Nanjing University of Science and Technology, June 2015.
2. Information Access on the Social Web: A personal update. Nanjing, Nanjing University of Science and Technology, June 2014.
3. Social Information Access. Nanjing. Nanjing University of Science and Technology, June 2013.
4. Social Information Access. Nanjing. Nanjing University, June 2013.
5. My Work on Intelligent Information Access. Nanjing. Nanjing University of Science and Technology, June 2011.
6. Intelligent Information Access. Wuhan. School of Information Management, Wuhan University, November 2009.
7. Towards Intelligent Information Access. Palo Alto: SAP, July 2008.
8. Towards Useful Interactive Multilingual Information Access Systems. Beijing: Department of Information Management, Beijing University, Jan. 2007.
9. Cross Language Information Access: Problems, Techniques, and Future. Xian, China: School of Software Engineering, Xian University of Science and Technology, Dec. 2006.

10. Cross Language Information Access: Problems, Techniques, and Future. Xian, China: School of Computer Science, Northwestern Polytechnic University, Dec. 2006.
11. Cluster-Based Query Expansion and Passage Extent Determination. Research talk: DARPA Tides PI Meeting, 2004.
12. From Need Negotiation to Automated HARD Process. Team site visit: TIDES project Maryland, Oct. 2003.
13. Making MIRACLEs: Interactive Translingual Search for Cebuano and Hindi. Stanford University: CLIR Minisummit, Center for the Study of Language and Information, Oct. 2003.
14. Interactive Cross Language Information Retrieval. University of Maryland: Research Review Day, May 2003.
15. TDT2002 Topic Tracking at University of Maryland. Gaithersburg, Maryland: Topic Detection and Tracking TDT2002, Nov. 2002.
16. TDT2002 Dry-run at University of Maryland. Los Angeles, California: TDT 2002 Dry-run, April 2002.
17. Comparing User-Assisted and Automatic Query Translation. Santa Monica, California: Information Science Institute Seminar, University of Southern California, April 2002.
18. Personalization in a Role-Based Web Retrieval System. College Park, Maryland: Linguistic Consortium of Cross Language and Information Processing Lab, University of Maryland, Oct. 2001.
19. Personalization in Web Retrieval. Aberdeen, Scotland: Burns Retreat, School of Computing, Robert Gordon University, June 2001.
20. References Ambiguities in Intelligent Multimodal Interfaces. Aberdeen, Scotland: School of Computing, Robert Gordon University, Feb. 1999.

## AWARDED GRANTS

### Principal Investigator

- |           |   |
|-----------|---|
| 2010-2012 | “EAGER: Tapping into Public Academic Information on the Social Web: Towards a Novel Academic Recommendation Framework.” NSF IIS-CHS. PI. Award Amount: \$49,983<br><a href="http://www.nsf.gov/awardsearch/showAward?AWD_ID=1052773">http://www.nsf.gov/awardsearch/showAward?AWD_ID=1052773</a>  |
| 2007-2012 | “Collaborative Research: User Centric, Adaptive and Collaborative Information Filtering.” NSF III-COR. PI at University of Pittsburgh: Collaborative project with Yiming Yang at Carnegie Mellon University. Total Award Amount: \$861,940, Pitt Award Amount: \$154,440<br><a href="http://www.nsf.gov/awardsearch/showAward?AWD_ID=0704628">http://www.nsf.gov/awardsearch/showAward?AWD_ID=0704628</a> |
| 2005-2006 | “Building a Digital Library for Learning Digital Libraries.” Chancellor’s Innovation of Teaching Award. PI, University of Pittsburgh. Award amount: \$20,000.   |
| 2005-2006 | “Combining Multiple Resources for Improving Enterprise Retrieval: An Initial Study,” PI. School of Information Sciences’ Dean’s Entrepreneurial Award. Award amount: \$15,000.  |
| 2005      | “Improving Digital Library Teaching with Diversity Issues.” PI, University of Pittsburgh Diversity Seminar Award. Award amount: \$1,500.  |

### Co- Investigator

- 2015-2018 “Open Corpus Personalized Learning” (IIS-CHS 1525186).” NSF IIS. Co-PI. Award Amount: \$499,758
- 2014 “Teen Health Information Behavior and Social Q&A: A Study to Investigate Teens’ Assessments of the Accuracy, Credibility, and Reliability of Health Information about Eating Disorders in Yahoo! Answers”. OCLC/ALISE Research Grant Program (LISRGF). Co-PI. Award Amount: \$15,000
- 2005-2010 “Rosetta: An Analyst Co-Pilot” Co-PI of Pittsburgh team (PI of Pittsburgh Team: P. Brusilovsky). DARPA GALE Program, Award amount: \$993,896. (actual funding 2005 to 2007, \$403,183)

## TEACHING EXPERIENCE

### At School of Information Sciences, University of Pittsburgh

#### Doctoral and Research Seminars

LIS3600 Web Information Systems: 2010 fall, 2009 fall

#### Master Level Core Courses

LIS2002 Retrieving Information

LIS2600 Introduction to Information Technology, 2013 fall, 2012 fall, 2011 fall, 2010 fall, 2009 fall,

LIS2670 Digital Libraries, 2013 fall(blend), 2012 fall(blend), 2011 fall(blend), 2010 fall(blend), 2009 fall(blend),

INFSCI2140 Information Storage and Retrieval, 2015 fall, 2015 spring, 2014 spring, 2013 spring, 2012 spring, 2011 spring, 2010 spring, 2009 spring

#### Other Courses

LIS2680 Database Design and Applications,

LIS2672 Technology and Services for Digital Data: 2015 fall,

LIS2658 Advance Topic for Information Storage and Retrieval: 2011 spring (blend), 2010 spring (blend)

LIS Independent Study: 1@2014fall, 1@2012summer, 2@2011summer 1@2009 fall

IST Independent Study: 3@2013fall, 4@2012spring, 1@2010spring

### At College of Information Studies, University of Maryland at College Park

#### Master Level Core Courses

LIS690 Information Technology

## STUDENT ADVISING

### Current PhD Advisees

#### *Library and Information Science Program:*

- Jessica Benner (enrolled in 2010, at dissertation stage)
- Wei Jeng (enrolled in 2011, at dissertation stage)
- Yu Chi (enrolled in 2015)

#### *Information Science and Technology Program:*

- Shugugang Han (enrolled in 2011, at dissertation stage)
- Danchen Zhang (enrolled in 2014)
- Sanqiang Zhao (enrolled in 2014)
- Rui Meng (enrolled in 2015)

## **Graduated PhD Advisees**

### *Library and Information Science Program:*

- Demetrios Ioannides: graduated in 2007, faculty member at Upper Iowa University
- Tim Schlak: graduated in 2010, co-chaired with Sherry Koshman, now the director of University Library and an assistant professor of Learning Resources Robert Morris University
- Tingting Jiang: graduate in 2011, co-chaired with Sherry Koshman, now an associate professor at the School of Information Management, Wuhan University, China
- Jongdo Park: graduated in 2013, now an assistant professor at the Department of Library and Information Science, Incheon National University
- Zhen Yue: graduated in 2014, now a research scientist at Yahoo Lab
- I-Ling Chen: graduated in 2015, now a post-doctoral researcher at National Sun Yat-Sen University, Taiwan
- Sung Min Kim: graduated in 2015, now a database system administrator at the School of Information Sciences, University of Pittsburgh
- Jiepu Jiang: graduated in 2016, now finishing his second doctoral study on Computer Science under James Allan at Center for Intelligent Information Retrieval University of Massachusetts Amherst

### *Information Science and Technology Program:*

- Qi Li: graduated in 2012, now an assistant professor at Department of Computer Science, Western Kentucky University
- Yiling Lin: graduated in 2013, co-advised with Peter Brusilovsky, now an assistant professor at National Sun Yat-Sen University, Taiwan

## **International Visitors**

### *Information Science Area:*

- Peng Wu (Associate Professor, Nanjing University of Science and Technology, one year, now a full professor at Nanjing University of Science and Technology)
- Chengzhi Zhang (Associate Professor, Nanjing University of Science and Technology, six months, now a full professor at Nanjing University of Science and Technology)
- Lei Li (Doctoral student, Nanjing University of Science and Technology, two years)
- Qikai Chen (Doctoral student, Wuhan University, 6 months, now an assistant professor at Wuhan University China)
- Dan Wu (Doctoral student, Beijing University, China, one year, now a full professor at Wuhan University China),
- Peng Qu (doctoral student, Beijing University, China, one year, now a research scientist at Institute of Scientific and Technical Information of China)

### *Computer Science Area:*

- Qiang Pu (Doctoral student, Science and Technology University of China, China, two years. now a faculty at Science and Technology University of China),
- Rui Liu (Associate Professor, Beijing University of Aeronautics and Astronautics, China, one year)

## **PhD Dissertation Committee Member**

*Library and Information Science Program:*

Allen Benson, Mary Jo Dorsey, Chi-Jung Lu, Minsoo Park, Elisabeth Rodriguez, Barbara Zaborowski,

*Information Science and Technology Program:*

Jae-wook Ahn, Worasit Choochaiwattana, Jonathan Grady, Danielle Hyunsook Lee, Ming Mao, Yefei Peng, Ming Ren, Sergey Sosnovsky, Sue Yeon Syn, Chirayu Wongchokprasitti, Michael Yudelson

*Intelligent System Program*

Rosta Farzan, Behrang Mohit, Sung-Young Jung

*Computer Science*

Weijia Li,

## SERVICES

### **University, School and Program Committees**

- Chair of SIS Council, School of Information Sciences (2011-2014)
- Director of Doctoral Studies, Graduate Program of Library and Information Science, School of Information Sciences (2011-2012)
- University Senate Election Committee (2007-2009)
- School of Information Science (SIS) Council member (2009-2011)
- SIS i-fest student research poster competition co-organizer (2006,2007, 2009)
- SIS international student organization faculty advisor (2006-current)
- SIS Faculty and Postdoc search committee (2006, 2009)
- PhD committee member of Library and information Science Program, Information Science and Technology Program at SIS, and Intelligent System Program at the College of Arts and Sciences.
- Committees for Catherine Ofiesh Orner Award and Robert R. Korfhage Award

### **Member of the Journal Editorial Board**

- Information Processing and Management (SCI/SSCI Indexed) 2016 - current
- Internet Research (SCI Indexed) 2010 - current
- Aslib Journal of Information Management (SCI/SSCI Indexed) 2010 - current

### **Guest Editor of Journal Special Issues**

- “Managing Bigger Online Data”, a special issue on The Electronic Library, 2017
- “Deep Mining of Web 2.0 Social Tags”, a special issue on Library and Information Service. 2013
- “Multilinguality in Digital Libraries”, a special issues on The Electronic Library, 2012
- “Multilingual Information Resources and Technologies in Digital Libraries”, a special issue on Library and Information Service. 2011

### **Organizers of Conference/Workshops**

- Workshop Co-Chair for iConference 2017
- Tutorial Co-Chair for European Conference on Information Retrieval (ECIR) 2017

- “Mining Big Text Data for Semantics (M4S): and its applications in Finance and Healthcare”, a workshop at 15<sup>th</sup> International Semantic Web Conference ISWC 2016.
- “Challenges and Issues on Scholarly Big Data Discovery and Collaboration”, a workshop at IEEE Big Data 2014

#### **Invited External Referee**

- Chinese Ministry of Education Yangtze Scholar External Reviewer, 2015
- The Netherlands Organisation for Scientific Research (NWO), 2015
- Natural Sciences and Engineering Research Council of Canada (NSERC)
- Tenure review for Drexel University, University of Regina
- Collaborative Incentive Research Grant (CIRG) Program, City University of New York
- The Innovation and Technology Commission, a funding agency for applied research of the Government of the Hong Kong Special Administrative Region, China

#### **Member of the Program Committees**

- ACM SIGIR Annual Conference, General Program committee, Poster and Demo Program Committee: 2006-2017
- Conference on Information and Knowledge Management (CIKM) Program Committee: 2008-2017
- European Conference on Information Retrieval (ECIR) Program Committee: 2008-2017
- Asian Information Retrieval Symposium (AIRS) Program Committee: 2009,2010,2011
- ACL Document Processing track Programm Committee: 2011-2016
- World Wide Web conference Program Committee: 2008-2010
- ACL-HLT General Program committee, Poster and Demo program committee: 2008
- iConference, 2010 - 2017
- American Society for Information Science and Technology, SIG International Information Issues Paper Contest: 2009
- International Conference on Knowledge Management and Information Systems (KMIS): 2009
- Web Information Retrieval Support Systems Workshop (WIRSS): 2008, 2009
- Natural Language Processing and Ontology Engineering (NLPOE): 2008, 2009
- “Evaluation of Exploratory Search Systems,” A workshop of SIGIR 2006
- “Web Search Technologies,” International Conference on Information Technology: 2005, 2006
- “User Modeling, Machine Learning and Information Retrieval”, a workshop of User Modeling 2003.
- The Student Section of COLING-ACL98.

#### **Invited Referee for journals**

- ACM Transactions on Information Systems
- Journal for Information Science
- The International Information and Library Review
- ACM Computer Surveys
- Information Processing and Management
- Journal of the American Society for Information Science and Technology
- ACM Transactions on Asian Language and Information Processing
- User Modeling and User-Adapted Interaction

#### **Member of Professional Societies**

February 7, 2018

- Association of Computing Machinery, Special Interest Group on Information Retrieval
- American Society for Information Science and Technology
- Association of Computational Linguistics
- IEEE Computer Society