

Jin Young Kim

Center for Intelligent Information Retrieval
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Research Interests

All areas of information retrieval and human-computer interaction, with recent work on personal information retrieval, semi-structured document retrieval and personalized web search.

Employment

Research Intern 2011/6–2011/8
Kevyn Collins-Thompson and Susan Dumais Microsoft Research Redmond
Developed a user profiling method based on the combination of reading level and topic. Explored applications of the method for personalized search and expert content classification.

Research Intern 2010/6–2010/8
Vitor R. Carvalho Microsoft Research Redmond / Bing Search
Studied time-instability in web search results. Explored techniques for predicting queries with unstable results. Developed a re-ranking method to reduce instabilities and improve ranking quality.

Research Assistant 2008/1–Present
W. Bruce Croft Center for Intelligent Information Retrieval
Proposed the concept of field relevance (per-term importance of document field), on top of which retrieval models for semi-structured document collections were devised. Developed techniques for evaluating search algorithms over personal information archives, based on simulation and user studies.

Assistant Manager 2003/1–2006/1
T&C Technology Seoul, Korea
Designed a flexible rule-based call record processing system in a large-scale (upto 10,000 transactions per second) and high-availability environment (Oracle Cluster). Developed a critical part of the system (call authentication / rating engine), and supervised the development of other components.

Education

Ph.D. Candidate in Computer Science, University of Massachusetts at Amherst, 2009 - present

M.S. in Computer Science, University of Massachusetts at Amherst, 2007 - 2008

B.S. in Electrical Engineering and Computer Science (minor in Business),
Seoul National University, 1999-2007, *Cum Laude*

Skills

Programming Languages: Ruby, R, Python, C++ and Java

Tools / Framework: Ruby on Rails, git and Emacs

Platform: Scripting in Unix environment

Honors and Awards

Recipient of KOCSEA Scholarship, 2011.

Recipient of Nexon Scholarship Program, 2000.

Recipient of Chong-hap Foundation Scholarship, 1999–2002.

Conference Proceedings

“A Field Relevance Model for Structured Document Retrieval”

Jin Young Kim and W. Bruce Croft, (To Appear) In Proceedings of the 34th European Conference on Information Retrieval (ECIR), Barcelona, Spain, 2012. (acceptance: 21%)

“Characterizing Web Content, User Interests, and Search Behavior by Reading Level and Topic”

Jin Young Kim, Kevyn Collins-Thompson, Paul N. Bennett, Susan T. Dumais. In Proceedings of WSDM’12: 5th ACM International Conference on Web Search and Data Mining, Seattle, WA, USA, 2012. (acceptance: 20.7%)

“Evaluating Search in Personal Social Media Collections”

Chia-Jung Lee, W. Bruce Croft and Jin Young Kim. In Proceedings of WSDM’12: 5th ACM International Conference on Web Search and Data Mining, Seattle, WA, USA, 2012.

“Evaluating an Associative Browsing Model for Personal Information” (short)

Jin Young Kim, Anton Bakalov, David A. Smith and W. Bruce Croft, In Proceedings of the 20th ACM Conference on Information and Knowledge Management (CIKM), Glasgow, UK, 2011.

“An Analysis of Time-instability in Web Search Results”

Jin Young Kim and Vitor R. Carvalho. In Proceedings of the 33rd European Conference on Information Retrieval (ECIR), Dublin, Ireland ACM, 2011. (acceptance: 20%)

“Building a Semantic Representation for Personal Information” (poster)

Jin Young Kim, Anton Bakalov, David A. Smith and W. Bruce Croft, In Proceedings of the 19th ACM Conference on Information and Knowledge Management (CIKM), Toronto, Canada, Oct. 26-30, 2010, pp. 1741-1744.

“Ranking using Multiple Document Types in Desktop Search”

Jin Young Kim and W. Bruce Croft, Proceedings the 33rd annual international ACM SIGIR Conference on Research and Development in Information Retrieval, Geneva, Switzerland, Jul. 19-23, 2010, pp. 50-57. (acceptance: 16.7%)

“Retrieval Experiments using Pseudo-Desktop Collections”

Jin Young Kim and W. Bruce Croft, In Proceedings of the 18th ACM Conference on Information and Knowledge Management (CIKM), Hong Kong, China, Nov. 2-6, 2009. (acceptance: 14.5%)

“A Probabilistic Retrieval Model for Semi-structured Data”

Jin Young Kim, Xiaobing Xue and W. Bruce Croft, In Proceedings of the 31st European Conference on Information Retrieval (ECIR), Toulouse, France, Apr. 6-9, 2009. (acceptance: 22.3%)

Workshop Proceedings

“Evaluating an Associative Browsing Model by Simulation”

Jin Young Kim, W. Bruce Croft and David A. Smith. In Proceedings of HCIR’11 Workshop, Mountain View, CA, USA, 2011.

“Workshop on Evaluating Personal Search”

Liadh Kelly, Jin Young Kim and David Elsweiler. SIGIR Forum, December 2011, Volume 45, pp 81-86.

“A Three-stage Evaluation Model for Personal Information Access”

Jin Young Kim and W. Bruce Croft. In Proceedings of Evaluating Personal Search Workshop in ECIR’11, Dublin, Ireland. ACM, 2011.

“Building Pseudo-Desktop Collections”

Jin Young Kim and W. Bruce Croft, In Proceedings of SIGIR Workshop on the Future of IR Evaluation, 2009.

Teaching / Professional Service

Organizer 2011/4
Workshop in ECIR'11 Conference Dublin, Ireland
Organizing 'Evaluating Personal Search Workshop' focused on the evaluation of personal search.
Provided the dataset built at UMass for workshop participants.

PC Committee Member 2010/9-2010/12
Workshop in ECIR'11 Conference Dublin, Ireland
Worked as a PC committee for CIKM'11 (paper), SIGIR'11 (poster) and AIRS'10 (paper).

Teaching Assistant 2010/9-2010/12
Prof. James Allan Amherst, Massachusetts
Worked as a teaching assistant in advanced information retrieval class (CS646) for Professor James Allan. Taught a lecture on Personal Information Retrieval, and helped students design and implement a search algorithm for email archives.

Invited Talks

"Humane Information Seeking: Going beyond the IR Way"
IBM Research Cambridge, Mar 6, 2012.

"Ranking using Multiple Document Types in Desktop Search "
Yahoo! Research Barcelona, Sep 9, 2010.

"Evaluating Personal Search Using Games"
Human Computation Reading Group, Microsoft Research Redmond, Aug 10, 2010.

"Building A Semantic Representation Of Personal Information"
Machine Learning and Friends Lunch, UMass Amherst, Apr 22, 2010.