

CURRICULUM VITAE

Kwan Yi

School of Library and Information Science
University of Kentucky
331 Little Fine Arts Library
Lexington, Kentucky 40506-0039
E-mail: kwan.yi@uky.edu

CURRENT POSITION

Assistant Professor, 2004 – Present, School of Library and Information Science, The University of Kentucky, Lexington, Kentucky, USA

EDUCATION

- Ph.D. Graduate School of Library and Information Studies, McGill University, Montreal. 2005.
Dissertation title: A Hidden Markov Model for Automatic Digital Document Classification.
Dissertation Advisor: Professor Jamshid Beheshti.
- M.Sc. School of Computer Science, McGill University, Montreal. 1997.
Thesis title: Speech Understanding System using Classification Trees.
Thesis Advisor: Professor Renato De Mori.
- M.S. Department of Mathematics, University of Illinois at Urbana-Champaign. 1993.
- B.S. Department of Computer Science, Korea University, Seoul. 1988.
- B.A. Department of Mass Communications, Korea University, Seoul. 1986.

PUBLICATIONS

Manuscripts under Review

Yi, Kwan. (In review) A Semantic Similarity Approach to Mapping Social Tags to Library of Congress Subject Headings. *Journal of the American Society for Information Science and Technology*, (3rd Round).

Refereed Journal Articles

Yi, Kwan, & Chan, Lois M. (Forthcoming) Syntactical and Structural Analysis of Library of Congress Subject Headings: Re-visit for Digital Environment. *Journal of the American Society for Information Science and Technology*.

- Yi, Kwan, & Chan, Lois M.** (2009). Linking Folksonomy to Library of Congress Subject Headings: An Exploratory Study. *Journal of Documentation*, 65(6), 872-900.
- Chung, Deborah S., & **Yi, Kwan.** (2009). Distribution of News Information through Social Bookmarking: An examination of shared stories on Del.icio.us. *Information Research*, 14(3). Available at <http://InformationR.net/ir/14-1/paper405.html>
- Yi, Kwan.** (2009). Mining Semantically Similar Tags from Delicious. *Journal of the Korean Society for Information Management*, 26(2), 127-147.
- Yi, Kwan, & Beheshti, J.** (2009). A Hidden Markov Model-based text classification of medical documents. *Journal of Information Science*, 35(1), 67-81. DOI: 10.1177/0165551508092257
- Yi, Kwan, & Jin, T.** (2008). Hyperlink Analysis for the Visibility of Canadian LIS School Websites. *Online Information Review*, 32(3), 325-347.
- Yi, Kwan.** (2007). Automated Text Classification Using Library Classification Schemes: Trends, Issues, and Challenges. *International Cataloguing and Bibliographic Control Journal*, 36(4), 78-82.
- Yi, Kwan, Beheshti, J., Cole, C., Leide, J., & Large, A.** (2006). User Search Behavior of Domain-Specific Information Retrieval systems: An Analysis of the Query Logs From PsycINFO and ABC-Clio's Historical Abstracts/America: History and Life. *Journal of the American Society for Information Science and Technology*, 57(9), 1208-1220. DOI: 10.1002/asi.20401

Refereed Conference Proceeding Papers

- Yi, Kwan.** (2009). A Study of Evaluating the Value of Social Tags as Indexing Terms. *Proceedings of the 6th International Conference on Knowledge Management*, December 3-4, 2009, Hong Kong. Managing Knowledge for Global and Collaborative Innovations, Eds. S. Chu, W. Ritter, S. Hawamdeh, 2009. **(Best conference paper)**
- Yi, Kwan.** (2009). Tag Sense Disambiguation: A Feasibility Study of Exploiting Co-occurring Tags to Discover the Sense of a Social Tag. *Proceedings of the 20th American Society for Information Science and Technology Special Interest Group in Classification Research Workshop*, November 7, 2009, Vancouver, Canada. **(Acceptance rate: 55%)**
- Yi, Kwan.** (2008). Mining a Web2.0 service for the Discovery of Semantically Similar Terms: A Case Study with Del.icio.us. *Proceedings of the International Conference on Asia-Pacific Digital Libraries (ICADL)*, December 2-5, 2008, Bali, Indonesia. Lecture Notes in Computer Science (LNCS), Eds. G. Buchanan, M. Masoodian, S.J. Cunningham, Vol. 5362, pp. 321-326, 2008. Available at: http://dx.doi.org/10.1007/978-3-540-89533-6_35 **(Acceptance rate: 12%)**
- Yi, Kwan.** (2008). A Conceptual Framework for Improving Information Retrieval in Folksonomy using Library of Congress Subject Headings. *Proceedings of the Annual Meeting of the American Society for Information Science and Technology*, October 24-29, 2008, Columbus, OH, USA, Vol. 45, Issue 1, (pp. 1-6).

- Yi, Kwan, & Chan, Lois M.** (2008). A Visualization Software Tool for Library of Congress Subject Headings. *Proceedings of the 10th International Conference of International Society for Knowledge Organization*, August 5-8, 2008, Montreal, Quebec, Canada. In Arsenault, C., and Tennis, J. T. (Eds.), *Advances in knowledge organization*, Vol. 11 (pp. 170-176). Würzburg, Germany: Ergon. (**Acceptance rate: 48%**)
- Yi, Kwan.** (2007). A Pilot Study of Enhancing Subject Discovery of Textual Web Resources. *Proceedings of the 35th Conference of the Canadian Association for Information Science (CAIS)*, May 10-12, 2007, Montreal, Quebec, Canada. Available at: http://www.cais-acsi.ca/proceedings/2007/yi_2007.pdf
- Yi, Kwan.** (2006). Challenges in Automated Classification using Library Classification Schemes. *Proceedings of the 72nd General Conference of International Federation of Library Associations and Institutions (IFLA)*, August 20-24, 2006, Seoul, Rep. of Korea. Available at: <http://www.ifla.org/IV/ifla72/papers/097-Yi-en.pdf>
- Yi, Kwan, & Beheshti, J.** (2006). Boosting for Text Classification with Subject Headings. *Proceedings of the 34th Conference of the Canadian Association for Information Science (CAIS)*, June 1-3, 2006, Toronto, Ontario, Canada. Available at: http://www.cais-acsi.ca/proceedings/2006/yi_2006.pdf
- Jin, T., & **Yi, Kwan.** (2005). Who Links to LIS School Web Sites? Examining the Hyperlinks to Seven Canadian Schools: A Comparative Content Analysis. *Proceedings of the 33rd Conference of the Canadian Association for Information Science (CAIS)*, June 2 - 4, 2005, London, Ontario, Canada. (Extended abstract).
- Yi, Kwan, & Beheshti, J.** (2004). A Comparative Study on Feature Selection of Text Categorization for Hidden Markov Models. *Proceedings of the 32nd Conference of the Canadian Association for Information Science (CAIS)*, June 3-5, 2004, Winnipeg, Manitoba, Canada (Extended abstract). Available at: http://www.cais-acsi.ca/proceedings/2004/yi_2004.pdf
- Yi, Kwan, & Beheshti, J.** (2003). A Text Categorization Model Based on Hidden Markov Models. *Proceedings of the 31st Conference of the Canadian Association for Information Science (CAIS)*, May 30-June 1, 2003, Halifax, Nova Scotia, Canada. Eds. Peekhaus, W. C., and Spiteri, L. F., 2003, pp. 275-287. Available at: http://www.cais-acsi.ca/proceedings/2003/yi_2003.pdf

Refereed Conference Paper

- Jin, T., & **Yi, Kwan.** (2004). An Empirical Analysis of the Hyperlinks in Library and Information School's Web Sites. Presented at the *Association of Library and Information Science Education (ALISE) Annual Conference*, January 6, 2004, San Diego, CA, USA.

Book

Yi, Kwan. (October 2008). *Hidden Markov Model for Text Classification using Library of Congress Classification: Framework, Design, and Application*. Saarbrücken, Germany: VDM - Verlag Dr. Müller.

Non-Refereed Publication

Sohn, Chang. W., **Yi, Kwan**, Herring, N., & Boughton, B. (August 1995). *The Computerized Refrigerant Management System*. USACERL ADP Report 95/28. US Army Corps of Engineers Construction Engineer Research Laboratory, Champaign, IL.

DISSERTATION & THESIS

Yi, Kwan. (January 2005). *A Hidden Markov Model for Automatic Digital Document Classification*. Doctoral dissertation. Graduate School of Library and Information Studies, McGill University, Montreal, QC.

Yi, Kwan. (September 1997). *Speech Understanding System using Classification Trees*. Master's thesis. School of Computer Science, McGill University, Montreal, QC.

RESEARCH GRANT REPORTS

Submitted & Pending

Air Force Research Lab (AFRL) Information Institution Research Program
Period: 3 years
Agency: Air Force Research Lab (AFRL)
Title: WebSUB: Automated Organization of Valuable Web Resources.
Requested Funding: \$368,000
Role: Principal Investigator
Status: White page

Funded

Research Support Grant, University of Kentucky
Period: June 2006 – May 2007
Agency: University of Kentucky
Title: A model for mapping the Library of Congress Classification and Dewey Decimal Classification schemes.
Funded amount: \$16,000
Role: Principal Investigator

College Research Activities Fund, University of Kentucky
Period: June 2006 – May 2006
Agency: University of Kentucky

Title: A model for mapping the Library of Congress Classification and Dewey Decimal Classification schemes.

Funded amount: \$1,950

Role: Principal Investigator

Non-funded

OCLC/ALISE Library and Information Science Research Grant Competition

Period: January 2008 – December 2008

Agency: OCLC/ALISE

Title: Study on Mapping Keywords into Library of Congress Subject Headings

Requested funding: \$15,000

Role: Principal Investigator.

OCLC/ALISE Library and Information Science Research Grant Competition

Period: January 2007 – December 2007

Agency: OCLC/ALISE

Title: Developing a Concept-based Vector Space Model for Mapping between Library and Congress Classification and Dewey Decimal Classification.

Requested funding: \$15,000

Role: Principal Investigator (with Dr. Lois M. Chan, University of Kentucky).

PRESENTATIONS

Presenter. “A Study for Evaluating the Value of Social Tags as Indexing Terms,” The 6th International Conference on Knowledge Management, December 3-4, 2009, Hong Kong.

Presenter. “A Feasibility Study of Exploiting Social Tags to Discover the Sense of Words,” The 20th American Society for Information Science and Technology (ASIS&T) Special Interest Group in Classification Research (SIG-CR) Workshop, November 7, 2009, Vancouver, Canada.

Presenter. “Mining a Web2.0 service for the Discovery of Semantically Similar Terms: A Case Study with Del.icio.us,” The International Conference on Asia-Pacific Digital Libraries (ICADL), December 3, 2008, Bali, Indonesia.

Invited speaker. “A Visual Tool of Exploring the Latent Hierarchical Structures of Library of Congress Subject Headings,” In Research Seminar Series, Wee Kim Wee School of Communication and Information, Nanyang Technology University. Partially sponsored by the Wee Kim Wee School of Communication and Information, November 28, 2008, Singapore.

Presenter. “A Conceptual Framework for Improving Information Retrieval in Folksonomy using Library of Congress Subject Headings,” In the poster session of the Annual Meeting of the American Society for Information Science and Technology, October 26, 2008, Columbus, OH, USA.

Presenter with Lois M. Chan. “A Visualization Software Tool for Library of Congress Subject Headings,” The 10th International Conference of International Society for Knowledge Organization (ISKO), August 7, 2008, Montreal, Quebec, Canada.

Presenter with Lois M. Chan. “A Feasibility Study for Linking User-tags in Folksonomy to Library of Congress Subject Headings,” Research Seminar Series, College of Communications & Information Studies, November 28, 2007, Lexington, KY, USA

Presenter. “A Pilot Study of Enhancing Subject Discovery of Textual Web Resources,” The 35th Conference of the Canadian Association for Information Science (CAIS), May 1-12, 2007, Montreal, Quebec, Canada.

Presenter. “Challenges in Automated Classification using Library Classification Schemes,” The 72nd General Conference of International Federation of Library Associations and Institutions (IFLA), August 21, 2006, Seoul, Rep. of Korea.

Presenter. “Boosting for Text Classification with Subject Headings,” The 34th Conference of the Canadian Association for Information Science (CAIS), June 1-3, 2006, Toronto, Ontario, Canada.

Presenter. “A Comparative Study on Feature Selection of Text Categorization for Hidden Markov Models,” The 32nd Conference of the Canadian Association for Information Science (CAIS), June 3-5, 2004, Winnipeg, Manitoba, Canada.

Invited speaker. “An Automatic Classification System Using Hidden Markov Model,” School of Library and Information Science at the University of Kentucky, February 2, 2004, Lexington, KY, USA.

Presenter. “A Hidden Markov Model for Text Categorization.” In the poster session of the *Association of Library and Information Science Education (ALISE) 2004 Annual Conference*, January 7, 2004, San Diego, CA, USA.

Presenter with Tao Jin. “An Empirical Analysis of the Hyperlinks in Library and Information School’s Web Sites.” The Association of Library and Information Science Education (ALISE) Annual Conference, January 6, 2004, San Diego, CA, USA.

Presenter. “Automatic Text Categorization using Hidden Markov Model.” In the *graduate poster session at McGill Homecoming 2003*, 16-19 October 2003, Montreal, QC, Canada.

Presenter. “A Text Categorization Model Based on Hidden Markov Models,” The 31st Conference of the Canadian Association for Information Science (CAIS), May 30-June 1, 2003, Halifax, NS, Canada.

Presenter. “A Text Categorization Model for Digital Documents Using Hidden Markov Model.” In the poster forum of the *Concordia 2nd annual poster forum*, May 9, 2003, Montreal, Quebec, Canada.

Presenter. “An Automatic Classification Model for Digital Documents based on Hidden Markov Models.” In the poster session of the *Association of Library and Information Science*

Education (ALISE) 2003 Annual Conference, 21-24 January 2003, Philadelphia, PA, United States.

Presenter. “An Automatic Document Classification Model for Digital Library: a Preliminary Research.” The 2nd Annual McGill Education Graduate Student Society (EGSS) Conference, November 9, 2002, Montreal, Quebec, Canada.

Invited lecturer. “Speech Recognition Systems and Its Applications to Information Retrieval.” Graduate School of Library and Information Studies, McGill University. Montreal, Quebec, Canada. November 2001.

Invited lecturer. “Speech Recognition & Understanding Systems.” Graduate School of Library and Information Studies, McGill University. Montreal, Quebec, Canada. November 2000.

RESEARCH INTERESTS

Organization of Digital Information
Text categorization
Data mining and knowledge discovery
Human-centered information system
Information retrieval

COURSES TAUGHT

University of Kentucky:

Information Storage and Retrieval (LIS 602): Fall 2004 – Summer 2008
Information Technology (LIS637): Spring 2005-2008 & Fall 2008
Information Systems Design (LIS668): Fall 2005 & Fall 2006; Fall 2009
Information Representation and Access (LIS602 – new curriculum): Fall 2008 –

McGill University:

Database Design and Management (405-691A): Fall 2002

HONORS AND AWARDS

College Research Activity Fund for International Travel, University of Kentucky (August 2009)
College Research Activity Fund for International Travel, University of Kentucky (October 2008)
College Research Activity Fund for International Travel, University of Kentucky (February 2008)
Research Support Grant, Office of the vice President for Research, University of Kentucky (2006-2007)
College Research Activity Fund for International Travel, University of Kentucky (April 2006)
Regular Summer Faculty Research Fellowship, University of Kentucky (2005)

Tuition Waiver Fellowship, Government of Quebec, Canada (1995)

Tuition Waiver Fellowship, Government of Quebec, Canada (1994)

Academic Scholarship, Korea University, Rep. of Korea (1983)

PREVIOUS PROFESSIONAL EXPERIENCES

Information Resources Engineer, Dept. of Psychology, McGill University, 1998-1999.

Research Programmer, Centre de Recherche Informatique de Montréal (CRIM), Montreal, 1996-1997.

Research Assistant, Dept. of Energy, US Army Construction Engineering Research Laboratory, Champaign, Illinois, 1992-1994.

Application Programmer, Dept. of Planning, Korea Securities Dealers Association, Republic of Korea, 1988-1990.

PROFESSIONAL SERVICES

International

2005. Doctoral Dissertation External Member.

Ph.D. Candidate, J. P. S. Kumaravel, entitled "Genomics: A Scientometric Analysis of Literature From 1992-2003." Directed by Dr. Manorama Srinath, Department of Library and Information Science, Madurai Kamaraj University, Tamil Nadu, India

University

2008. Doctoral Dissertation Outside Examiner.

Ph.D. Candidate, George V. Landor, Jr., entitled "Employing overlay networks for content delivery over the Internet." Directed by Dr. William Brent Seales, Department of Computer Science, University of Kentucky, Lexington, Kentucky

2007. Doctoral Dissertation Outside Examiner.

Ph.D. Candidate, Yun Lin, entitled "Physics-based digital restoration using volumetric scanning." Directed by Dr. William Brent Seales, Department of Computer Science, University of Kentucky, Lexington, Kentucky

2006. Doctoral Dissertation Outside Examiner.

Ph.D. Candidate, Mengkun Yang, entitled "Employing overlay networks for content delivery over the Internet." Directed by Dr. Zongming Fei, Department of Computer Science, University of Kentucky, Lexington, Kentucky

2005. Doctoral Dissertation Outside Examiner.

Ph.D. Candidate, Ionut Emil Iacob, entitled "Algorithms for management of document-

centric XML data.” Directed by Dr. Alexander Dekhtyar, Department of Computer Science, University of Kentucky, Lexington, Kentucky

College

2007-2008

Faculty Council (elected position)

College of Communications and Information Studies, University of Kentucky

2006-2007

Faculty Council (elected position)

College of Communications and Information Studies, University of Kentucky

Department

2009-2010

Admissions Committee

School of Library and Information Science, University of Kentucky

Technology Committee

School of Library and Information Science, University of Kentucky

2008-2009

Curriculum Committee

School of Library and Information Science, University of Kentucky

Exam Committee (Spring 2008)

School of Library and Information Science, University of Kentucky

Executive Committee (Convener)

School of Library and Information Science, University of Kentucky

Ad-hoc **Technology Committee** (Convener)

School of Library and Information Science, University of Kentucky

2007-2008

Admissions Committee

School of Library and Information Science, University of Kentucky

Director Search Committee

School of Library and Information Science, University of Kentucky

Exam Committee (Fall 2007)

School of Library and Information Science, University of Kentucky

Executive Committee

School of Library and Information Science, University of Kentucky

2006-2007

Curriculum Committee

School of Library and Information Science, University of Kentucky

Exam Committee (Spring 2007)

School of Library and Information Science, University of Kentucky

Planning Committee (Convener)

School of Library and Information Science, University of Kentucky

2005-2006

Curriculum Committee

School of Library and Information Science, University of Kentucky

Executive Committee

School of Library and Information Science, University of Kentucky

2004-2005

Curriculum Committee

School of Library and Information Science, University of Kentucky

Executive Committee

School of Library and Information Science, University of Kentucky

Reviewing of Journal Articles for:

Canadian Journal of Information and Library Science (CJILS)

Information Processing Letters (IPL)

Informing Science Journal

Journal of Digital Information (JoDI)

Journal of the American Society for Information Science and Technology (JASIST)

The Handbook of Computer Networks

Swedish Library Research Journal

Reviewing of Conference Papers for:

Annual Meeting of the American Society for Information Science & Technology (ASIS&T)

International Conference on Information Systems (ICIS)

International Conference on Knowledge Management (ICKM)

Informing Science & Information Technology Education Joint Conference (InSITE)

MENTORING

Publication

Carla Redden. (2010). Social bookmarking in academic libraries: Trends and applications, *Journal of Academic Librarianship*, May issue, in press.

Independent Study

- LIS695 Independent Study, Mr. Zhangxi Shen, Fall 2009:

A theoretic and experimental study in the principle of web-based database information system and its application and implementation

- LIS695 Independent Study, Ms. Carla Redden, Summer 2008:

An extensive study of the use of social networking and social bookmarking in an academic library setting

PROFESSIONAL DEVELOPMENT**Workshop, Tutorial, Seminar, & Program**

“Endnote reference software version X2,” Fall Research Workshop organized by College of Communications & Information Studies, University of Kentucky, Lexington, Kentucky. October 12, 2009.

“Advancing Your Career-Reducing Your Anxiety,” Faculty Promotion & Tenure Workshop organized by Provost office, University of Kentucky, Lexington, Kentucky, May 7, 2009.

“Advancing Your Career-Reducing Your Anxiety,” Faculty Promotion & Tenure Workshop organized by Provost office, University of Kentucky, Lexington, Kentucky, May 5, 2008.

“Web 2.0 Principles and Best Practices: Discovering the Participatory Web,” Continuing education program approved by the Medical Library Association, University of Kentucky, Lexington, Kentucky. March 5, 2008 (Certification issued).

“A Feasibility Study for Linking User-tags in Folksonomy to Library of Congress Subject Headings,” Research Seminar Series, College of Communications & Information Studies, November 28, 2007, Lexington, KY, USA

“Upgrades in the Blackboard – Course Management System,” Workshop organized by Teaching & Academic Support Center (TASK), Instructional & Faculty Development, University of Kentucky, Lexington, Kentucky, August 2007.

“Promotion and Tenure at UK: Assembling a Teaching portfolio,” Workshop organized by Teaching & Academic Support Center (TASC), Instructional & Faculty Development, University of Kentucky, Lexington, Kentucky. September 9, 2005.

“EndNote for the Social Sciences,” Workshop organized by Medical Center Library, University of Kentucky, Lexington, Kentucky. July 14, 2005.

“Thesauri and Ontologies in Digital Libraries,” Tutorial at Joint Conference on Digital Libraries (JCDL, 2005), Denver, Colorado. June 7, 2005.

“Understanding the Blackboard – Course Management System,” Workshop organized by Teaching & Academic Support Center (TASC), Instructional & Faculty Development, University of Kentucky, Lexington, Kentucky, August 2004.

“Support Vector and Kernel Methods,” Tutorial at the 26th Annual International ACM SIGIR Conference, Toronto, Canada. July 28, 2003.

Professional Membership:

Association for Computing Machinery (ACM), member, 2008 – Present.

Association for Library and Information Science Education (ALISE), member, 2003 – 2004, 2007 – 2008.

American Society for Information Science and Technology (ASIS&T), member, 2005 – Present.

Canadian Association for Information Science (CAIS), member, 2003 – 2008.