# CURRICULUM VITAE – JIANQIANG WANG, Ph.D.

Dept. of Information Science[1]
Graduate School of Education
University at Buffalo
State University of New York

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## EDUCATION

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|---|---|---|
| Ph.D. | University of Maryland<br>Library and Information Services<br>Dissertation: "Matching Meaning for Cross-Language Information Retrieval"<br>Advisor: Douglas W. Oard | 2005 |
| M.S. | Institute of Scientific & Technical Information of China<br>Information Science<br>Thesis: "Citation Analysis on Chinese Journals"<br>Advisor: Zhanping Liang | 1995 |
| B.S. | Xi'an Jiaotong University (China)<br>Applied Physics | 1990 |
| Post-Graduate Certificate | University of Maryland<br>Library and Information Services | 1996 |

## EMPLOYMENT HISTORY

| | | |
|---|---|---|
| Associate Professor | Department of Library and Information Studies, University at Buffalo, SUNY | 8/2012-present |
| Interim Chair | Department of Library and Information Studies, University at Buffalo, SUNY | 8/2012-8/2013 |
| Assistant Professor | Department of Library and Information Studies, University at Buffalo, SUNY | 8/2006-8/2012 |
| Faculty Research Associate | Institute for Advanced Computer Studies, University of Maryland | 1/2006-8/2006 |
| Adjunct Instructor | College of Information Studies, University of Maryland | 2/2006-5/2006 |
| Graduate Research | Institute for Advanced Computer Studies, | 9/1998-12/2005 |

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[1] The department changed its name from Library and Information Studies to Information Science in Spring 2019.

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| Assistant | University of Maryland | |
| Graduate Teaching Assistant | College of Information Studies, University of Maryland | 2/2004-5/2004 |
| Student Researcher | Center for Language and Speech Processing, Johns Hopkins University | 7/2000-9/2000 |
| Product Manager | Computer Network Center, Wanfang Data Company (China) Project led: Beijixing web search engine | 6/1996-8/1998 |
| Graduate Library Assistant | Paul Wasserman Library, University of Maryland | 9/1995-5/1996 |
| Electronic Engineer | Shanxi Radio Factory (China) | 8/1990-8/1993 |

## HONORS & AWARDS

Principal Investigator (Co-PI: Dr. Ying Sun), *Reading Lawyers' Mind: Technological Implications for E-Discovery*, Baldy Center for Law and Social Policy, University at Buffalo, 2009-2010, $1,800/Funded.

Beta-Phi-Mu Eugene Garfield Doctoral Dissertation Fellowship, 2004.

Graduate Research Assistantship, Institute for Advanced Computer Studies, University of Maryland, 1998-2005.

Doctoral Student to the Association for Library and Information Science Education (ALISE) annual conference, San Diego, California, January 6-9, 2004.

Honorable Mention (3rd place): "Translingual Search for Information in Surprise Languages," doctoral student poster session, ALISE annual conference, San Diego, California, January 6-9, 2004.

Doctoral Student Travel Support to the 1st NTCIR Workshop, Tokyo, Japan, August 30 - September 1, 1999.

## PUBLICATIONS

**Refereed Journal and Conference Papers**

**Wang, J.** & Sun, Y. (2019). Improving explicit term matching with implicit topic matching for short text conversation. *Proceedings of the Association for Information Science and Technology*, October 19-23, 2019, Melbourne, Australia.

**Wang, J.**, Sun, Y., & Soergel, D. (2019). Expanding comments using previously responded posts for short text conversation in open social media. *DEStech Transactions on Computer Science and Engineering*.

**Wang, J.** (2018). Document expansion for short text conversation. *Proceedings of the 14th International Conference on Knowledge Management*. November 9-10, Vancouver, Canada.

**Wang, J.** (2017). UB at the NTCIR-13 STC-2 task: exploring syntactic similarities and sentiments. *Proceedings of the 13th NTCIR Conference on Evaluation of Information Access Technologies*, December 5-8, 2017, Tokyo Japan

**Wang, J.** (2016). UB at the NTCIR-12 SpokenQuery&Doc-2: spoken content retrieval using multiple ASR hypotheses and syllables. *Proceedings of the 12th NTCIR Conference on Evaluation of Information Access Technologies*, June 7-10, 2016 Tokyo Japan. National Institute of Informatics.

Li, S., & **Wang, J.** (2013). A visualization and recognition method of readers' interests with the analysis of the characteristics of borrowing time. *New Technology of Library and Information Service*, 29(5), 46-53

**Wang, J.**, & Oard, D. W. (2012). Matching meaning for cross-language information retrieval. *Information Processing and Management*, 48(4), 631-653.

**Wang, J.** (2011). Accuracy, agreement, speed, and perceived difficulty of users' relevance judgments for e-discovery. *The 34th ACM SIGIR Conference Information Retrieval for E-Discovery (SIRE) Workshop*.

**Wang, J.**, & Soergel, D. (2011). A user study of relevance judgments for e-discovery. *Proceedings of the 73rd ASIS&T Annual Meeting on Navigating Streams in an Information Ecosystem,* Pittsburgh, PA, October 22 - 27, 2010

He, D., & **Wang, J.** (2009). Cross-language information retrieval. In A. Goker & J. Davies (Eds.), *Information Retrieval: Searching in the 21st Century*, John Wiley and Sons, 2009.

Oard, D. W., He, D., & **Wang, J.** (2008). User-assisted query translation for cross-language information retrieval. *Information Processing and Management*, 44(1), 181-211.

**Wang, J.** & Oard, D. W. (2007). CLEF 2006 CL-SR at Maryland: English and Czech. In P. Clough et al. (Eds.), *Evaluation of Multilingual and Multi-modal Information Retrieval* (pp. 786-793). Springer's Lecture Notes in Computer Science, Vol. 4730.

Oard, D. W., **Wang, J.**, Jones, G. J. F., White, R. W., Pecina, P., Soergel, D., . . . Shafran, I. (2007). Overview of the CLEF-2006 Cross-Language Speech Retrieval track. In P. Clough et al. (Eds.), *Evaluation of Multilingual and Multi-modal Information Retrieval* (pp. 744-758). Springer's Lecture Notes in Computer Science, Vol. 4730.

Ircing, P, Pecina, P., Oard, D. W., **Wang, J.**, White, R. W., & Hoidekr, J. (2007). Information retrieval test collection for searching spontaneous Czech speech. In V. Matoussek & P. Mautner (Eds.), *Proceedings of the 10th International Conference on Text, Speech, and Dialogue* (pp. 439-446). Springer-Verlag Berlin/ Heidelberg.

**Wang, J.**, & Oard, D. W. (2006). Combining bidirectional translation and synonymy for cross-language information retrieval. In S. Dumais et al. (Eds.), *Proceedings of the 29th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 202-209). Association for Computing Machinery, New York, NY, USA.

**Wang, J.** & Oard, D. W. (2006). CLEF 2005 CL-SR at Maryland: document and query expansion using side collections and thesauri. In F. Gey et al. (Eds.), *Accessing Multilingual Information Repositories* (pp. 800-809). Springer's Lecture Notes in Computer Science, Vol. 4022.

He, D., **Wang, J.**, Luo, J., & Oard, D. W. (2005). Summarization Design for Interactive Cross-Language Question Answering. In P. Clough et al. (Eds.), *Multilingual Information Access for Text, Speech, and Images* (pp. 348-362). Springer's Lecture Notes in Computer Science, Vol. 3491.

Oard, D. W., Gonzalo, J., Sanderson, M., Lopez-Ostenero, F., & **Wang, J.** (2004). Interactive cross-language document selection. *Information Retrieval*, 7(1-2), 205-228.

Oard, D. W., Soergel, D., Doermann, D., Huang, X., Murray, G. C., **Wang, J.**, . . . Strassel, S. (2004). Building an information retrieval test collection for spontaneous conversational speech. In K. Jarvelin et al. (Eds.), *Proceedings of the 27th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 41-48). Association for Computing Machinery, New York, NY, USA.

Dorr, B. J., He, D., Luo, J., Oard, D. W., Schwartz, R., **Wang, J.**, & Zajic, D. (2004). iCLEF 2003 at Maryland: translation selection and document selection. In J. Gonzalo et al. (Eds.), *Comparative Evaluation of Multilingual Information Access Systems* (pp. 435-449). Springer's Lecture Notes in Computer Science, Vol. 3237.

Meng, H. M., Chen, B., Khudanpur, S., Levow, G. A., Lo, W. K., Oard, D. W., . . . **Wang, J.** (2004). Mandarin-English Information (MEI): investigating translingual speech retrieval. *Computer Speech and  Language*, 18(2), 163-179.

He, D., Oard, D. W., **Wang, J.**, Luo, J., Demner-Fushman, D., Darwish, D., . . . Leuski, A. (2003). Making MIRACLEs: interactive translingual search for Cebuano and Hindi. *ACM Transaction on Asian Language Information Processing*, 2(3), 219-244.

He, D., **Wang, J.**, Oard, D. W., & Nossal, M. (2003). User-assisted query translation for interactive CLIR. In J. Callan et al. (Eds.), *Proceedings of the 26th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 461), Association for Computing Machinery, New York, NY, USA.

Ma, H., Karagol-Ayan, B., Doermann, D., Oard, D. W., & **Wang, J.** (2003). Parsing and tagging of bilingual dictionaries. *Traitement Automatique Des Langues*, 44(2), 125-150.

He, D., **Wang, J.**, Oard, D. W., & Nossal, M. (2003). Comparing user-assisted and automatic query translation. In M. Braschler et al. (Eds.), *Advances in Cross-Language Information Retrieval* (pp. 400-415). Springer's Lecture Notes in Computer Science, Vol. 2785.

**Wang, J.**, & Oard, D. W. (2002). iCLEF 2001 at Maryland: comparing term-for-term gloss and MT. In M. Braschler et al. (Ed.), *Evaluation of Cross-Language Information Retrieval Systems* (pp. 336-353). Springer's Lecture Notes in Computer Science, Vol. 2406.

Meng, H. M., Chen, B., Grams, E., Khudanpur, S., Lo, W. K., Levow, G. A., . . . Wang, J. (2001). Mandarin-English information (MEI): investigating translingual speech retrieval. *Proceedings of the First International Conference on Human Language Technology (HLT) Research* (doi:10.3115/1072133.1072202). Association for Computational Linguistics, Stroudsburg, PA, USA

Oard, D. W., & **Wang, J.** (1999a). Effects of term segmentation on Chinese/English cross language information retrieval. In *Proceedings of the 6th International Symposium on String Processing and Information Retrieval & International Workshop on Groupware (*pp. 149-157)*, IEEE Computer Society, Washington D.C., USA.

**Non-refereed Conference and Workshop Papers**

**Wang, J.**, Sun, Y., & Thompson, P. (2010). TREC 2009 at the University at Buffalo: interactive search of Enron emails. In E. M. Voorhees & L. P. Buckland (Eds.), *Proceedings of the Eighteenth Text Retrieval Conference*.

**Wang, J.**, Sun, Y., Mukhtar, O., & Srihari, R. (2009). TREC 2008 at the University at Buffalo: Legal and Blog track. In E. M. Voorhees & L. P. Buckland (Eds.), *Proceedings of the Seventeenth Text Retrieval Conference.*

Ruiz, M. E., Sun, Y., **Wang, J.**, & Liu., H. (2008). Exploring traits of adjectives to predict polarity opinion in BLOGS and semantic filters in genomics. In E. M. Voorhees & L. P. Buckland (Eds.), *Proceedings of the Sixteenth Text Retrieval Conference*.

Oard, D. W., Elsayed, T., **Wang, J.**, Wu, Y., Zhang, P., Abels, E., . . . & Soergel, D. (2007). TREC-2006 at Maryland: Blog, Enterprise, Legal and QA tracks. In E. M. Voorhees & L. P. Buckland (Eds.), *Proceedings of the Fifteenth Text Retrieval Conference*.

Oard, D. W. & **Wang, J.** (2001). NTCIR-2 ECIR experiments at Maryland: comparing structured queries and balanced translation. In *Proceedings of the Second NTCIR Workshop on Research in Chinese & Japanese Text Retrieval and Text Summarization.*

Oard, D. W. & **Wang, J.** (1999b). NTCIR CLIR experiments at Maryland. In *Proceedings of the First NTCIR Workshop on Research in Japanese Text Retrieval and Term Recognition*.

Oard, D. W., **Wang, J.**, Lin, D., & Soboroff, I. (1999). TREC-8 experiments at Maryland: CLIR, QA and Routing. In E. M. Voorhees & D. K. Harman (Eds.), *Proceedings of the Eighth Text Retrieval Conference*.

# PRESENTATIONS

Research paper presentation, "Improving Explicit Term Matching with Implicit Topic Matching for Short Text Conversation," at the 82nd Annual Meeting of the Association for Information Science and Technology, October 19-23, 2019, Melbourne, Australia

Keynote speech, "Information Retrieval Technology and Practice: How Do We Get Here and Where Are We Heading for?" at the 2019 International Conference on Information, Computing, Communications and Computer Technology, June 16-17, 2019, Shanghai, China.

Research paper presentation, **"Expanding Comments Using Previously Responded Posts for Short Text Conversation in Open Social Media,"** at the 2019 International Conference on Information, Computing, Communications and Computer Technology, June 16-17, 2019, Shanghai, China.

Research paper presentation, "Document Expansion for Short Text Conversation," at the 14th International Conference on Knowledge Management. Vancouver, Canada. November 9-10, 2018.

Research paper presentation, "UB at the NTCIR-13 STC-2 Task: Exploring Syntactic Similarities and Sentiments," at the 13th NTCIR Conference on Evaluation of Information Access Technologies, Tokyo Japan, December 5-8, 2017.

Research paper presentation, "UB at the NTCIR-12 SpokenQuery&Doc-2: Spoken Content Retrieval Using Multiple ASR Hypotheses and Syllables," at *the 12th NTCIR Conference on Evaluation of Information Access Technologies,* Tokyo Japan, June 10, 2016

Research paper presentation, "Accuracy, Agreement, Speed, and Perceived Difficulty of Users' Relevance Judgments for E-Discovery," at *the 34th ACM SIGIR Conference Information Retrieval for E-Discovery (SIRE) Workshop*, Beijing, China, July 28, 2011.

Research paper presentation, "A User Study of Relevance Judgments for E-Discovery," at *the 73rd ASIS&T Annual Meeting on Navigating Streams in an Information Ecosystem*, Pittsburgh, PA, October 26, 2010.

Research paper presentation, "Combining Specific Queries and Generic Queries for E-Discovery," at *the Eighteenth Text Retrieval Conference*, Gaithersburg, Maryland, November 17-20, 2009.

Invited research presentation, "TREC Legal Track at the University at Buffalo," at *the Seventeenth Text Retrieval Conference E-Discovery Workshop*, Gaithersburg, Maryland, November 18-20, 2008.

½ day tutorial, "Cross-Language Information Access," at *the 30th international ACM SIGIR conference on Research and development in Information Retrieval*, July 23, 2007, Amsterdam, Netherlands.

Research paper presentation, "UMD at TREC Legal: Comparing Boolean and Ranked Retrieval," at *the Fifteenth Text Retrieval Conference*, Gaithersburg, Maryland, November 14-17, 2006.

Research paper presentation, "Combining Bidirectional Translation and Synonymy for Cross-Language Information Retrieval," at *the 29th International ACM SIGIR conference on Research and development in Information Retrieval*, Seattle, Washington, August 6-11, 2006.

Research project presentation, "Initial IR Experiments for the MALACH Project," at *the U.S. National Science Foundation Site Visit*, June 14, 2004.

Invited research presentation, "Supporting Interactive Exploration of Foreign-Language Collections," at *the 19th HCI Annual Symposium and Open House*, College Park, Maryland, May 30-31, 2002.

Invited research presentation, "Cross-language information retrieval with Asian languages," at *the Institute of Software, Chinese Academy of Sciences*, Beijing, China, August 13, 2002.

Invited research presentation, "Cross-Language Information Seeking Behavior," at *the 2nd Workshop on Interactive Cross-Language Information Retrieval*, College Park, Maryland, June 1, 2001.

Invited research presentation, "Cross-language Retrieval from Mandarin Speech: the MEI Project," at *the Computational Linguistics & Information Processing Lab Colloquium*, University of Maryland, College Park, October 11, 2000.

Invited research presentation, "Exploiting User Interaction for Multilingual Information Access," at *the 1st Workshop on Interactive Cross-Language Information Retrieval*, College Park, Maryland, June 1, 2000.

## COURSES

**University at Buffalo**
LIS 561 – Information Systems Analysis and Design, 2007-present
LIS 562 – Networking Technologies, 2016-present
LIS 569 – Database Systems, 2012-present
LIS 503 – Special Topics on Web Design and Development, 2016-present
LIS 507 – Information Life Cycle, 2017-present
LIS 506 – Introduction to Information Technology, 2006-2016
LIS 563 – Digital Libraries, 2008-2009
CSE 435/535 – Information Retrieval, Fall 2014
INF 507 – Survey of Information Science and Services, Fall 2006

**University of Maryland**
LBSC 690 – Introduction to Information Technology, Spring 2006

## STUDENT ADVISEMENT/SUPERVISION

Information and Library Science (academic advisement): 280 MS students in total (approximately 8 per semester with degrees conferred), 2006-present

Computer Science (research project supervision): Ashok Narasimhan (PhD, 2009), Minu Manakkal Seetharaman (MS, 2012), Omar Mukhtar (MS, 2008)

## SERVICE

**Professional Service**

Reviewer, Recent Advances in Electrical and Electronic Engineering; ACM Computing Survey, 2019.

Reviewer, the iConference, 2019.

Reviewer, Annual Conference of the North American Chapter of the Association for Computational Linguistics, 2019.

Reviewer, Annual Meeting of the Association for Information Science and Technology, 2019.

Reviewer, Information Processing and Management, 2007, 2011, 2013, 2016, 2018

Reviewer, Current Challenges in Patent Information Retrieval, 2014

Grant proposal panelist, U.S. National Science Foundation, 2008, 2012

Reviewer, Electronic Library, 2011

Reviewer, ACM Special Interest Group on IR Conference, 2007, 2008

Reviewer, ACM Transactions on Asian Language and Information Processing, 2004

Reviewer, ACM Conference on Information and Knowledge Management, 2008

**University/School/Department Service**

Associated Faculty, Asian Study Program, College of Arts & Sciences, 2009-present

Member, M.A. in Informatics Program Committee, University at Buffalo, 2007-2008

Member, Graduate School of Education (GSE) Scholarships and Awards Committee, 2018 – present.

Member, GSE Personnel Committee, 2016 - 2018

Member, GSE Graduate Degrees Committee, 2007-2009, 2011-2012, 2015-2018

Member, Department of Library and Information Studies (LIS) Faculty Search Committee, 2014

Interim Chair, LIS Department, 2012-2013

Co-Chair, LIS Department Chair Search Committee, 2013

Member/Chair, LIS Academic Programs and Curricula Committee, 2013-2014 (Chair),
2014-present, 2018-2019 (Chair)

Member/Chair, LIS Admissions & Academic Standards Committee, 2006-2009,
2011-2012, 2014-2016, 2017-2018 (Chair), 2019-2020 (Chair)

Member/Chair, LIS Scholarships Committee, 2016–2017, 2018-2019 (Chair)

Member, Department of Library and Information Studies (LIS) Technology Committee,
2009-2012

Member, LIS Department Chair Search Committee, 2009

# PROFESSIONAL MEMBERSHIP

Association for Computing Machinery (ACM)

Association for Information Science and Technology (ASIS&T)

Association of Library and Information Science Education (ALISE)