

## Kun Lu

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School of Library and Information Studies  
University of Oklahoma  
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### EDUCATION

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Ph.D. in Information Studies	2008-2012
University of Wisconsin-Milwaukee, Milwaukee, USA	
M.S. in Information Science	2006-2008
Wuhan University, Wuhan, China	
B.S. in Information Management and Information System	2002-2006
Wuhan University, Wuhan, China	

### PROFESSIONAL APPOINTMENTS

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Assistant professor at University of Oklahoma, USA	2013 - now
Faculty member at Wuhan University, China	2012 –2013

### RESEARCH INTERESTS

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Information retrieval  
Human information interaction  
Applied informetrics  
Text mining  
Organization of information

### PUBLICATIONS

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#### Referred Journal Articles (\* corresponding author):

- Zhao, W., Mao, J., & **Lu, K.**\* (Accepted). Ranking Themes on Co-word Networks: Exploring the Relationships among Different Metrics. *Information Processing and Management*
- Lu, K.**, Mao, J., & Li, G. (Accepted). Towards Effective Automated Weighted Subject Indexing: A Comparison of Different Approaches in Different Environments. *Journal of the Association for Information Science and Technology*
- Mao, J., Cao, Y., **Lu, K.**, & Li, G. (2017). Topic Scientific Community in Science: a Combined Perspective of Scientific Collaboration and Topics. *Scientometrics*, 112(2), 851-875.
- Lu, K.**, Joo, S., Lee, T., & Hu, R. (2017). Factors that Influence Query Reformulations and Search Performance in Health Information Retrieval – A Multi-level Modeling Approach. *Journal of the Association for Information Science and Technology*, 68(8), 1886-1898.
- Lu, K.**, Cai, X., Ajiferuke, I., & Wolfram, D. (2017). Vocabulary Size and its Effect on Topic Representation. *Information Processing and Management*, 53(3), 653-665.

- Mao, J., **Lu, K.**, Li, G., & Yi, M. (2016). Profiling Users with Tag Networks in Diffusion-based Personalized Recommendation. *Journal of Information Science*, 42(5), 711-722.
- Mao, J., **Lu, K.**\*, Mu, X., & Li, G. (2015). Mining Document, Concept and Term Associations for Effective Biomedical Retrieval - Introducing MeSH-enhanced Retrieval Models. *Information Retrieval Journal*, 18(5), 413-444.
- Lu, K.** & Mao, J. (2015). An Automatic Approach to Weighted Subject Indexing – An Empirical Study in the Biomedical Domain. *Journal of the Association for Information Science and Technology*, 66(9), 1776-1784.
- Lu, K.**, Ajiferuke, I., & Wolfram, D. (2014). Extending Citer Analysis to Journal Impact Evaluation. *Scientometrics*, 100(1), 245-260.
- Lu, K.** & Kipp, M.E.I. (2014). Understanding the Retrieval Effectiveness of Collaborative Tags and Author Keywords in Different Retrieval Environments – An Experimental Study on Medical Collections. *Journal of the Association for Information Science and Technology*, 65(3), 483-500.
- Mu, X., **Lu, K.**, & Ryu, H. (2014). Explicitly Integrating MeSH Thesaurus Help into Health Information Retrieval Systems: An Empirical User Study. *Information Processing and Management*, 50(1), 24-40.
- Lu, K.** & Wolfram, D. (2012). Measuring Author Research Relatedness: A Comparison of Word-based, Topic-based and Author Co-citation Approaches. *Journal of the American Society for Information Science and Technology*, 63(10), 1973-1986.
- Joo, S., Lin, S. & **Lu, K.** (2011). A Usability Evaluation Model for Academic Library Websites: Efficiency, Effectiveness and Learnability. *Journal of Library and Information Studies*, 9(2), 11-26.
- Mu, X., Ryu, H. & **Lu, K.** (2011). Supporting Effective Health and Biomedical Information Retrieval and Navigation: A Novel Facet View Interface Evaluation. *Journal of Biomedical Informatics*, 44(4), 576-586.
- Lu, K.**, Joo, S. & Wolfram, D. (2011). An Investigation of Web Resource Distribution in the Field of Information Science. *Cybermetrics*, 15(1).
- Ajiferuke, I., **Lu, K.** & Wolfram, D. (2011). Who Are the Research Disciples of an Author? Examining Publication Recitation and Oeuvre Citation Exhaustivity. *Journal of Informetrics*, 5(2), 292-302.
- Lu, K.** & Wolfram, D. (2010). Geographic Characteristics of the Growth of Informetrics Literature 1987-2008. *Journal of Informetrics*, 4(1), 591-601.
- Ajiferuke, I., **Lu, K.** & Wolfram, D. (2010). A Comparison of Citer and Citation-Based Measure Outcomes for Multiple Disciplines. *Journal of the American Society for Information Science and Technology*, 61(10), 2086-2096.

- Mu, X., **Lu, K.** & Ryu, H. (2010). Search Strategies on a New Health Information Retrieval System. *Online Information Review*, 34(3), 440-456. (**Emerald Literati Network Highly Commented Paper Award**)
- Mu, X. & **Lu, K.** (2010). Towards Effective Genomic Information Retrieval: The Impact of Query Complexity and Expansion Strategies. *Journal of Information Science*. 36(2), 194-208.
- Lu, K.** (2008). Tacit Knowledge Externalization Based on Web2.0. *Chinese Journal of Information Science*, 2, 247-251.
- Cai, Q., **Lu, K.** & Wang, JY. (2008). Research on Evaluation Indices System of the Network Database Service Benefit. *Chinese Journal of Intelligence*, 27(2), 40-42.

### **Referred Conference Proceedings:**

- Joo, S., & **Lu, K.** (2017). Content Analysis of Facebook Posts in Public Libraries based on Textual Analysis. In *Proceedings of ASIST 2017*. Arlington, Virginia, USA. (Poster)
- Valencia, K.R., & **Lu, K.** (2017). Mining Scholarly Articles for Citation Contexts – A Pilot Study in Information Science Domain. In *Proceedings of iConference 2017*. Wuhan, Hubei, China. (Poster)
- Lu, K.**, Mao, J., Li, G., & Xu, J. (2016). Recognizing Reference Spans and Classifying their Discourse Facets. In *BIRNDL@JCDL* (pp.139-145). Newark, New York, USA. (Poster)
- Lu, K.**, Joo, S., Lee, T., & Hu, R. (2016). Analyzing Query Reformulation Data using Multi-level Modeling. In *Proceedings of iConference 2016*. Philadelphia, Pennsylvania, USA. (Poster)
- Lu, K.**, Mao, J., Li, G. (2015). Enhancing Subject Metadata with Automated Weighting: A Comparison of Different Measures. In *Proceedings of International Conference on Asian Digital Libraries 2015 (ICADL'2015)*, Seoul, Korea. (**Best Paper Award**)
- Chiu, W., & **Lu, K.** (2015). Random Walk on Co-word Network: Ranking Terms Using Structural Features. In *Proceedings of the 2015 Annual Meeting of the Association for Information Science and Technology (ASIST'2015)*, St. Louis, Missouri, USA. (Paper)
- Chiu, W., & **Lu, K.** (2015). Paradigmatic Relations and Syntagmatic Relations: How Are They Related? In *Proceedings of the 2015 Annual Meeting of the Association for Information Science and Technology (ASIST'2015)*, St. Louis, Missouri, USA. (Poster)
- Lu, K.**, Zhao, Y., Ajiferuke, I., & Wolfram, D. (2015). How related is author topical similarity to other author relatedness measures. In *Proceedings of the International Society of Scientometrics and Informetrics Conference 2015 (ISSI'2015)*, Istanbul, Turkey. (Paper)
- Mao, J., & **Lu, K.** (2014). Leverage the associations between documents, subject headings and terms to enhance retrieval. In *Proceedings of the 7<sup>th</sup> International workshop on*

- Exploiting Semantic Annotations in Information Retrieval (ESAIR'14)*, pp. 33-35, Shanghai, China. (Poster)
- Wang, Y., Joo, S., & **Lu, K.** (2014). Exploring topics in the field of data science by analyzing Wikipedia documents: A preliminary result. In *Proceedings of the 2014 Annual Meeting of the Association for Information Science and Technology (ASIST'2014)*, Seattle, USA. (Poster)
- Lu, K.**, & Mao, J. (2013). Automatically infer subject terms and documents associations through text mining. In *Proceedings of the 2013 Annual Meeting of the American Society for Information Science and Technology (ASIST'2013)*, Montreal, Canada. (Poster)
- Hu, R., **Lu, K.**, & Joo, S. (2013). Effects of Topic Familiarity and Search Skills on Query Reformulation Behavior. In *Proceedings of the 2013 Annual Meeting of the American Society for Information Science and Technology (ASIST'2013)*, Montreal, Canada. (Paper)
- Lu, K.**, Lu, W., Cheng, Q., Lei, S., & He, J. (2013). A Visualization Tool for Topic Evolution among Research Fields. In *Proceedings of the International Society of Scientometrics and Informetrics Conference 2013 (ISSI'2013)*. Vienna, Austria. (Poster)
- Lu, K.**, Ajiferuke, I., & Wolfram, D. (2013). Extending Citer-based Analysis to Journal Impact Evaluation. In *Proceedings of the International Society of Scientometrics and Informetrics Conference 2013 (ISSI'2013)*. Vienna, Austria. (Paper)
- Lu, K.** (2013). An Insight into Vector Space Modeling and Language Modeling. In *Proceedings of the iConference 2013*. Fort Worth, Texas, USA. (Poster)
- Joo, S. & **Lu, K.** (2012). Structural Analysis of Author Vector Space in the Field of Information Science. In *Proceedings of 2012 Annual Meeting of the American Society for Information Science and Technology (ASIST'2012)*, Baltimore, Maryland. (Poster)
- Lu, K.** & Wolfram, D. (2011). Assessing Author Research Focus Using Vector Space Modeling. In *Proceedings of 2011 Annual Meeting of the American Society for Information Science and Technology (ASIST'2011)*, New Orleans, Louisiana. (Poster)
- Tirilly, P., **Lu, K.**, & Mu, X. (2011). Predicting Modality from Text Queries for Medical Image Retrieval. In *Proceedings of the 2011 international ACM workshop on Medical Multimedia analysis and retrieval* (pp.7-12). Scottsdale, Arizona, USA. (Paper)
- Tirilly, P., **Lu, K.**, Mu, X., & Zhao, T. (2011). On Modality Classification and Its Use in Text-based Image Retrieval in Medical Databases. In *Proceedings of the 9<sup>th</sup> International Workshop on Content-based Multimedia Indexing (CBMI)*, Madrid, Spain. (Paper)
- Lu, K.** & Kipp, M.E.I. (2010). An Experimental Study on the Retrieval Effectiveness of Collaborative Tags. In *Proceedings of 2010 Annual Meeting of the American Society for Information Science and Technology (ASIST'2010)*, Pittsburgh, Pennsylvania. (Poster)

- Lu, K.** & Wolfram, D. (2010). Delineating Citation Concepts. In *Proceedings of 2010 Annual Meeting of the American Society for Information Science and Technology (ASIST'2010)*, Pittsburgh, Pennsylvania. (Poster)
- Lu, K.** & Mu, X. (2009). Query Expansion Using UMLS Tools for Health Information Retrieval. In *Proceedings of the 2009 Annual Meeting of the American Society for Information Science and Technology (ASIST'2009)*, Vancouver, British Columbia. (Paper)
- Ajiferuke, I., Wolfram, D. & **Lu, K.** (2009). A Comparison of Citer and Citation-based Measure Outcomes in the Social Sciences. In *Proceedings of 2009 Annual Meeting of the American Society for Information Science and Technology (ASIST'2009)*, Vancouver, British Columbia.. (Poster)

## **PEER REVIEW EXPERIENCE**

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Aslib Journal of Information Management  
 Electronic Library  
 Future Internet  
 International Journal of Human-Computer Interaction  
 iConference paper reviewer  
 Journal of Informetrics  
 Journal of Information Science  
 Journal of Information Science Theory and Practice  
 KESA 2015 paper reviewer  
 Journal of Data and Information Management

## **TEACHING EXPERIENCE**

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*Information Communication Technology* at University of Oklahoma (2013 - present)  
*Dynamic Web Development* at University of Oklahoma (2015 - present)  
*Information Studies Capstone* at University of Oklahoma (2015 - present)  
*Information Technology Management* at University of Oklahoma (2014 - present)  
*Data Mining* (Co-teach in English) at Wuhan University (2013 Spring)  
*Information Resource Management* at Wuhan University (2013 Spring)  
*Web Application Development* at University of Wisconsin-Milwaukee (2012 Spring)  
*Database Information Retrieval Systems* at University of Wisconsin-Milwaukee (2011 Fall)

## SERVICE EXPERIENCE

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### Service to the Academic Community

- ICADL 2015, 2016 Program Committee
- ASIST 2015, 2016 SIG/MET Program Committee
- ASCW'15 (Quantifying and Analyzing Scholarly Communication on the Web) Program Committee
- ASIST SIG/MET Membership Chair

### University of Oklahoma

- SLIS Undergraduate Studies Committee Chair
- SLIS Curriculum Committee Member
- SLIS Communication Committee Member
- SLIS Assessment Committee Member

### University of Wisconsin-Milwaukee

- Student representative in Faculty Search & Screen Committee (2011)
- Ph.D representative in SOIS Research Committee (2009 - 2010)
- Student representative in Doctoral Committee (2008 - 2009)

## GRANTS & AWARDS

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Presidential International Travel Fellowship	2017
National Natural Science Foundation of China (Co-PI on project "Research on Intelligence Consulting Services Based on the Semantic Analysis of Text and Web", \$606,000 in Chinese Currency)	2017- 2020
ICADL 2015 Best Paper Award	2015
University of Oklahoma College of Arts and Sciences Junior Faculty Summer Fellowship	2015
University of Oklahoma College of Arts and Sciences Travel Assistance Program	2014
University of Oklahoma College of Arts and Sciences Travel Assistance Program	2013
SOIS Doctoral Research Award Grant	2012
ASIST Travel Award	2011
Emerald Literati Network Highly Commented Paper Award	2011
Dissertation Fellowship University of Wisconsin Milwaukee	2011
University of Wisconsin-Milwaukee SOIS Dean's Fellowship	2010
Chancellor's Fellowship University of Wisconsin Milwaukee	2010
Chancellor's Fellowship University of Wisconsin Milwaukee	2008
Second prize national scholarship Wuhan University	2004
Second prize national scholarship Wuhan University	2003
First prize of excellent student leader in Wuhan University	2003

## **TECHNICAL SKILLS**

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### **Retrieval tools**

- Lemur toolkit – a language model based search engine
- Unified Medical Language System (UMLS) – a twenty years NIH project to bridge the gap in medical terminologies
- Natural Language Toolkit (NLTK) – open source Python modules for natural language processing
- Topic modeling tools

### **Programming skills**

- Proficiency in Java, Java based database application (MySQL & MS Access database), Javascript, JSP, ASP, PHP Web application
- Experienced in Python
- Experienced in C/C++

### **Statistical analysis**

Familiar with statistical packages including SPSS, SAS and R

### **Operating systems**

Familiar with Windows and Linux