Xin Li

School of Information Management, Wuhan University

Wuhan, HUBEI, P.R. China, 430072

Phone: (+861) 13545136968

lucian@whu.edu.cn

EDUCATION

Sept 2015-Present   **Wuhan University**, School of Information Management, Wuhan, China
- A bachelor-straight-to-doctorate student working on the Text Mining, Science of Science, and Information Retrieval
- A member of *Information Retrieval and Knowledge Mining Laboratory*
- Advisor: Professor Wei Lu, Associate Dean of SIM, WHU

Sept 2011-Jun 2015   **Huazhong University of Science and Technology**, Tongji Medical College, Wuhan, China

BA in Medical Information Management (Jun 2015)
- Cumulative GPA: 3.7/4.0
- Summer Research in Health Literacy and Information Retrieval with Professor Shijing Zhang

Sept 2013-Jun 2015   **Huazhong University of Science and Technology**, School of Foreign Language, Wuhan, China

BA in English Language and Literature (Jun 2015)
- Cumulative GPA: 89/100

Sept 2014-Feb 2015   **National Chiao Tung University, National Tsing Hua University,** Hsinchu, Taiwan

Exchange Student in Medical Information Management
- Cumulative GPA: 3.8/4.0
- Research on Information Privacy Regarding Electronic Medical Record (EMR) in Professor HsinGinn Hwang's team as a Research Assistant

RESEARCH EXPERIENCE

Apr 2017-Present   Research on **Mesh Terms** with Dr. Neil Smalheiser (UIC)
- Discovered that Mesh terms in the PubMed article set of a specific field are changing in different time slice, so we could follow the flow of ideas and information as they enter specific fields by studying New Mesh Terms, such as biological and medical problems.
- Divided New Mesh Terms into 3 categories. When new articles in a field contain one or more new mesh terms, which is a measure of how the field is changing.
- We plan to characterize a given field according to how many, and which, new mesh terms appear in it over time.

Sep 2015-Present Research on the **Semantic Understanding of Scholarly Texts** with Professor Wei Lu

- Our group first proposed Term Function theory and Structure Function theory in Academic texts; Implemented Term Function Recognition and Structure Function Recognition by using NLP methods and demonstrated they have positive effect on scholarly search and keywords extraction, etc.; based on which I designed and implemented CS-LAS (a scientific literature analysis and retrieval system for computer science).
- Constructed a Sentiment Dictionary in academic context in Chinese and drawing on which we studied the evolution of writing style of Chinese Scholars in Computer Science (CS) and Library and Information Science (LIS).

Sep 2014-Feb 2016 Research on **Health Literacy Assessment** with Professor Shijing Zhang

- Proposed a Health Literacy Assessment index system from the clinical perspective in China.
- Explored the relationship between E-health Literacy and Health Information Seeking Behavior of college students.

SKILLS

Programming Languages
- Python, Java, Shell Script
- Web programming language (HTML, XML)

Applications
- Familiar with several *NLP and Machine Learning* Tools, including Stanford NLP, NLTK, WEKA, Scikit-learn
- Familiar with several *Information Retrieval* Tools, including Lucene, Indri
- Familiar with several *Social Network Analysis* Tools, including Pajek, Ucinet, Netdraw
- Familiar with several *Bibliometric* Tools, including VOSViewer, CiteSpace, Hiscite, SATI, RPYS, NEViewer, especially proficient in co-word analysis
- Familiar with several *Office* Software, including Word, PPT, Excel, Visio, Acrobat, and Photoshop
- Familiar with *Statistical* Tools, including SPSS

Languages
- Chinese (native)
- English

RESEARCH PUBLICATIONS

My research papers are focus on three subjects: (1) Scientific text mining; (2) Science of science; and (3) Health literacy.
- **In English:**
1. **Xin Li,** Qikai Cheng and Wei Lu. CS-LAS: A Scientific Literature Retrieval and Analysis System Based on Term Function Recognition (TFR). 16th International Conference on Scientometrics & Informetics, 2017, Wuhan University, China.(full paper)

● **In Chinese:**

2. Qikai Cheng, **Xin Li**. Automatic Recognition of Term Function in Academic Text for Semantic Publishing. Digital Library Forum, 2017(08): 24-31.

3. Long Fang, **Xin Li**, Yong Huang, Wei Lu. Structure-Function Recognition of Academic Text—— Application in Automatic Keywords Extraction. Journal of the China Society for Scientific and Technical Information. 2017(06): 559-605.

4. Xin Wang, Qikai Cheng, **Xin Li**, Wei Lu. Design and Implementation of Related Works Generation System Based onCitation Context. Digital Library Forum, 2017(08): 16-23.

5. **Xin Li**, Qikai Cheng, Xingbang Liu. Design and Implementation of Scientific Literature Analysis System Based on Term Function Recognition. Library and Information Service, 2017(01): 109-116.

6. **Xin Li**, Xuhui Li, Wei Lu, Wei Huang. Analysis of Progress and Frontiers of Big Data –driven Library and Information Science. Library Tribune, 2017(04): 49-57.

7. **Xin Li**, Xuhui Li. Analysis of Health Information Literacy Assessment Based on Bibliometrics. Journal of Modern Information, 2017(02): 134-140.

8. **Xin Li,** Xuhui Li. Investigation and Countermeasures on Current Situation of College Students' Online Health Information Search Behavior Based on eHealth Literacy. Library Theory and Practice, 2017(04): 44-50.

9. **Xin Li**, Qian Li. A complementary Perspective for Traditional Bibliometrics and Scientific Evaluation: Full Time Span RPYS. Document, Information & Knowledge, 2017(04): 89-99.

10. **Xin Li**, Wei Zhao, Xianglong Xiao, Mengjia Wu. A Research on Citation Analysis Based on RPYS Analysis: The Origin and Evolution. Library Tribune, 2017(05): 1-10.

11. Xuemei Yang, **Xin Li,** Lining Shen. The Establishment of the Evaluation Index System of APP in the Perspective of User Experience. Digital Library Forum, 2017(02): 59-66.

12. **Xin Li**, Wei Lu, Xuhui Li. A Novel Approach for Detecting the Historical Root of a Research Area: Reference Publication Years Spectroscopy. Library and Information Service, 2016(20): 70-76.

13. Qikai Cheng, **Xin Li**, Wei Lu. Research on the Evolution of Scientific Writing Style between 1994 and 2012 Based on Emotional Vocabulary Perspective: A Retrospective Analysis. Document, Information & Knowledge, 2016(06): 62-68.

14. **Li Xin**, Zhang Shijing, Hou Sheng-chao, Li Yan. The Construction of Assessment Index System of Health Literacy Based on a Clinical Perspective in China. Chinese Journal of Health Education, 2016(06): 534-540.

15. **Xin Li**. The Implementation of National Big Data Strategy Based on Hall's Three-dimensional Model. Digital Library Forum, 2016(06): 28-33.

16. Zhang Shijing, **Li Xin**, Liu Haitong. A Review of International Instruments for Health Literacy. Chinese Journal of Health Education, 2014(10): 920-924.

17. **Lixin**, Zhang shijing, Wang Yanpeng. Thoughts and Methods of Clinical Pharmacy Information Retrieving in Network Environment. Herald of Medicine, 2014(03): 275-278.

18. Wu Mengjia, Zhang Shijing, Zhou Zhichao, Zhang Yue, **Li Xin**. Use and Demand of Clinical Practice Guidelines in China. Chinese Journal of Medical Library and Information Science, 2016(01): 37-42.

HONORS

- 2018, China Scholarship Council(CSC) for 24 months as a visiting scholar in America

- 2017, "Excellent Paper Award", Third Price, The 11th "Ziqiang Cup" Academic contest, Wuhan University
- 2017, National Scholarship, Chinese Ministry of Education (Top 1% PhD Candidate)
- 2016, "Wenhua" Scholarship, School of Information Management, Wuhan University (Top **1%** Master Graduate)
- 2016, Excellent Paper Award, Second Price, National Information Science Doctoral Forum, Peking University, Beijing, China
- 2016, Excellent Young Researcher Scholarship, **First** Price, Digital Library Forum, Peking, China
- 2016, Excellent Paper Award, COINFO2016, Beijing, China
- 2015, New Graduate Student Award, First Prize (Top **1%** Master Graduate)
- 2015, "Excellent Bachelor Degree Thesis", Hubei Provincial Department of Education
- 2014, National Scholarship, Chinese Ministry of Education (Top **1%** Undergraduates)
- 2014, "Excellent Academic Achievements of Undergraduate", Hubei Provincial Department of Education
- 2013, "Outstanding Undergraduates in Term of Academic Performance" (the **greatest honor** for undergraduates in Huazhong University of Science and Technology)

WORKING EXPERIENCE

Sep 2016-Jun 2017   Teaching Assistant, Wuhan University, Wuhan, China
- Data Structure (Java) (Undergraduate course, 78 students): Professor Hao Fan, Fall 2016. Graded exams, lead review sections and helped to prepare lecture materials.
- Data Structure Experiment (Undergraduate course, 78 students): Professor Hao Fan, Spring 2017. Graded exams, facilitating tutorials in programming.

Mar 2017   Conference Student Volunteer, iConference 2017, Wuhan, China
- Colloquium assistant
- Poster buildup
- Clean up

Oct 2013-Aug 2014   Subway Student Volunteer, Zhongshan Park Station at Wuhan Subway
- Guide passengers
- Help old passengers buy subway tickets

HOBBIES

- Jogging almost everyday
- Badminton
- Reading classical novels