

## Kai Li

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<http://kaili.us>

### RESEARCH INTERESTS

Scholarly communication; Open science; Scientometrics; Data and software citation; Information organization; Critical data studies; Science and technology studies; Data mining; Text mining; Machine learning; Natural language processing; Library cataloging and technical services; Digital humanities

### EDUCATION

*Ph.D. in Information Studies* 2015 - Present

College of Computing & Informatics

**Drexel University**, Philadelphia, PA

- Proposal defended in March, 2019. Expect to graduate in Spring, 2020.
- Dissertation: A quantitative examination of research methods and software in scientific publications
- Committee: Dr. Erjia Yan (Chair; Advisor), Dr. Jane Greenberg, Dr. Ali Kenner, Dr. Cassidy Sugimoto, Dr. Chaomei Chen, and Dr. Jake Williams

*Master of Science in Library and Information Science*

2012 - 2013

School of Information Studies

**Syracuse University**, Syracuse, NY

*Bachelor's Degree in History*

2003 - 2007

School of History

**Beijing Normal University**, Beijing, China

### HONORS & AWARDS

*LIS Education and Data Science for the National Digital Platform (LEADS-4-NDP) Fellowship* 2019

**Drexel University**

- Project: Automatic Identification of Publisher Entities to Support Discovery and Navigation (with OCLC)
- Awarded \$5,000 plus travel support
- Funded by the Institute of Museum and Library Services

*RDA/US Data Share Fellowship*

2016 - 2017

**Research Data Alliance**

- Project: Metadata Standards and Software Citation Practices
- Awarded \$10,000 plus travel support
- Funded by the Alfred P. Sloan Foundation

*Student Travel Award*

2019

**The International Society for Informetrics and Scientometrics**

*Travel Awards*

2016, 2017, 2019

**Department of Information Science, Drexel University**

## RESEARCH EXPERIENCE

### College of Computing & Informatics, Drexel University

- Research Assistant (with Dr. Erjia Yan) 2017 - 2019
  - Project: “Building an Entity-based Research Framework to Enhance Digital Services on Knowledge Discovery and Delivery” (funded by the Institute of Museum and Library Services)
- Research Assistant (with Dr. Jane Greenberg) 2016 - 2017
  - Project: “Transforming Data Adaptation Science and Service: An Innovative Visual Ontology Application” (funded by Center for Visual & Decision Informatics, National Science Foundation)

### The Children’s Hospital of Philadelphia, Philadelphia, PA

- Research Intern (with Dr. Luis M. Ahumada) 2016 - 2017
  - Project: “Constructing a Hospital-wide Researcher Recommendation System”

### College of Information Studies, Syracuse University

- Research Assistant (with Dr. Kevin Crowston & Dr. Carsten Oesterlund) 2013
  - Project: “Collaborative Research: Focusing Attention to Improve the Performance of Citizen Science Systems - Beautiful Images and Perspective Observers” (funded by the National Science Foundation)
- Research Assistant (with Dr. Jian Qin) 2012 - 2013

## PUBLICATIONS Peer-Reviewed Journal Articles

[J11] Yan, E., Chen, Z. & Li, K. (2020). The relationship between journal citation impact and citation sentiment: A study of 32 million citances in PubMed Central, *Quantitative Science Studies*. MIT Press, pp. 1–15. [https://doi.org/10.1162/qss\\_a\\_00040](https://doi.org/10.1162/qss_a_00040)

[J10] Yan, E., Chen, Z. & Li, K. (2020). Authors’ status and the perceived quality of their work: Measuring citation sentiment change in nobel articles. *Journal of the Association for Information Science and Technology*, 71: 314-324. <https://doi.org/10.1002/asi.24237>

[J9] Li, K., Greenberg, J. and Dunic, J. (2020). Data objects and documenting scientific processes: An analysis of data events in biodiversity data papers. *Journal of the Association for Information Science and Technology*, 71: 172-182. <https://doi.org/10.1002/asi.24226>

[J8] Li, K., Chen, P.-Y., & Yan, E. (2019). Challenges of measuring software impact through citations: An examination of the lme4 R package. *Journal of Informetrics*, 13(1), 449–461. <https://doi.org/10.1016/j.joi.2019.02.007>

[J7] Li, K., & Yan, E. (2019). Are NIH-funded publications fulfilling the proposed research? An examination of concept-matchedness between NIH research

grants and their supported publications. *Journal of Informetrics*, 13(1), 226–237. <https://doi.org/10.1016/j.joi.2019.01.001>

[J6] Li, Y., Wu, C., Yan, E., & Li, K. (2018). Will open access increase journal CiteScores? An empirical investigation over multiple disciplines. *PLOS ONE*, 13(8), e0201885. <https://doi.org/10.1371/journal.pone.0201885>

[J5] Yan, E., & Li, K. (2018). Which domains do open-access journals do best in? A 5-year longitudinal study. *Journal of the Association for Information Science and Technology*, 69(6), 844–856. <https://doi.org/10.1002/asi.24002>

[J4] Li, K., Rollins, J., & Yan, E. (2018). Web of Science use in published research and review papers 1997–2017: a selective, dynamic, cross-domain, content-based analysis. *Scientometrics*, 115(1), 1–20. <https://doi.org/10.1007/s11192-017-2622-5>

[J3] Zhao, M., Yan, E., & Li, K. (2018). Data set mentions and citations: A content analysis of full-text publications. *Journal of the Association for Information Science and Technology*, 69(1), 32–46. <https://doi.org/10.1002/asi.23919>

[J2] Li, K. & Yan, E. (2018). Co-mention network of R packages: Scientific impact and clustering structure. *Journal of Informetrics*, 12(1), 87–100. <https://doi.org/10.1016/j.joi.2017.12.001>

[J1] Li, K., Yan, E., & Feng, Y. (2017). How is R cited in research outputs? Structure, impacts, and citation standard. *Journal of Informetrics*, 11(4), 989–1002. <https://doi.org/10.1016/j.joi.2017.08.003>

### **Refereed Full Papers in Conference Proceedings**

[C4] Li, K., & Yan, E. (2019). Using a keyword extraction pipeline to understand concepts in future work sections of research papers. In *17th International Conference on Scientometrics and Informetrics*.

[C3] Feng, Y., Li, K., & Agosto, D.E. (2017). Healthy users’ personal health information management from activity trackers: The perspective of gym-goers. In *Proceedings of the Annual Meeting of Association for Information Science and Technology* (54: pp. 71–81). <https://doi.org/10.1002/pra2.2017.14505401009>

[C2] Li, K., Greenberg, J., & Lin, X. (2016). Software Citation, Reuse and Metadata Considerations: An Exploratory Study Examining LAMMPS. In *Proceedings of the Annual Meeting of the Association for Information Science and Technology* (53: pp. 1–10). <https://doi.org/10.1002/pra2.2016.14505301072>

[C1] Qin, J., & Li, K. (2013). How portable are the metadata standards for scientific data? a proposal for a metadata infrastructure. In *Proceedings of the International Conference on Dublin Core and Metadata Applications* (pp. 25–34). <https://dcpapers.dublincore.org/pubs/article/view/3670>

### **Refereed Short Papers in Conference Proceedings**

[S2] Pascua, S., Li, K., & Greenberg, J. (2019). Toward A Metadata Activity Matrix: Conceptualizing and Grounding the Research Life-cycle and Metadata Connections. In *Proceedings of the International Conference on Dublin Core and Metadata Applications*.

[S1] Guerra, J., Wei, Q., Li, K., Ahumada, L., Winston, F., & Desai, B. R. (2018). Scosy: A Biomedical Collaboration Recommendation System. Presented at the 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Honolulu, HI, USA.

### **Refereed Conference Posters**

[P7] Ma, R.Q. & Li, K. (2020). Telling Multifaceted Stories with Humanities Data: Visualizing Book of Hours Manuscripts. Presented at iConference 2020 Annual Meeting. (Finalist for Best Poster Award).

[P6] Li, K., Chen, P.-Y., & Fang, Z. (2019). Disciplinarity of Software Papers: A Preliminary Analysis. In *Proceedings of the Annual Meeting of Association for Information Science and Technology*.

[P5] Li, K., & Chen, P.-Y. (2019). A preliminary scientometric analysis of the Cross-Strait scientific collaboration. In *17th International Conference on Scientometrics and Informetrics*.

[P4] He, J. & Li, K. (2019). How comprehensive is the PubMed Central Open Access full-text database?. Presented at iConference 2019 Annual Meeting, Washington, DC, USA. <http://hdl.handle.net/2142/103317>

[P3] Li, K. & Chen, P.Y. (2018). The narrative structure as a citation context in data papers: A preliminary analysis of Scientific Data. In *Proceedings of the Annual Meeting of Association for Information Science and Technology*. <https://doi.org/10.1002/pr2.2018.14505501147>

[P2] Li, K. & Xu, S. (2017). Measuring the impact of R packages. In *Proceedings of the Annual Meeting of Association for Information Science and Technology* (54: pp. 739-741). <https://doi.org/10.1002/pr2.2017.14505401138>

[P1] Li, K. (2016). How much can data citation standards be used for scientific software? A crosswalk analysis of data citation standards for software citation needs. Presented in Research Data Alliance 8th Plenary Meeting, Denver, Colorado, September 14-17, 2016.

### **Book Reviews**

[B1] Li, K. (2019). A review of The Politics of Mass Digitization. *Education for Information*, 35, 361-363. <https://doi.org/10.3233/EFI-199011>

### **Doctoral Colloquia (Lightly Peer-Reviewed)**

[D2] Li, K. (2019). Quantitative examination of research methods and software in scientific publications. Selected to attend the Doctoral Colloquium at ASIS&T 2019, Melbourne, Australia, October 19, 2019.

[D1] Li, K. (2019). What is the disciplinarity of software. Selected to attend the Doctoral Forum at 17th International Conference on Scientometrics and Informetrics, Rome, Italy, September 2, 2019.

### **Non-Refereed Conference Presentations**

[T1] Li, K. (2012). RDA in China. Presented at ALA Annual Conference 2012. June 24, 2012. Anaheim, California.

## TEACHING EXPERIENCE

### Instructor

College of Computing & Informatics, Drexel University

- **INFO 153 (On-site): Applied Data Management** (Spring '20)
- **INFO 590 (Online): Foundations of Data and Information** (Winter '20)
- **INFO 250 (On-site): Information Visualization** (Summer '19)

### Teaching Assistant

College of Computing & Informatics, Drexel University

- **INFO 659: Introduction to Data Analytics** (Fall '19)
- **INFO 250: Information Visualization** (Spring '19)
- **INFO 683: Information Resources for Children** (Summer '18)
- **CI 101: Introduction to Computing and Informatics** (Fall '15)

## PROFESSIONAL EXPERIENCE

*Cataloger*

2014 - 2015

Ingram Content Group, Fort Wayne, Indiana

*Cataloging Librarian*

2007 - 2012

Capital Library of China, Beijing, China

## SERVICE & MEMBERSHIPS

### Reviewer

- Journal of the Association for Information Science and Technology
- Quantitative Science Studies
- Journal of Informetrics
- Scientometrics
- Library Hi Tech
- Journal of Librarianship and Information Science
- PLoS ONE
- IEEE Access
- iConference Annual Meeting ('19 '20)
- The American Medical Informatics Association (AMIA) Annual Symposium ('18 '19 '20)

### Editorial Board Member

- Research Assessment (specialty section of Frontiers in Research Metrics and Analytics Archive) (2019 to Present)

### Membership

- The Association for Information Science and Technology (ASIS&T)

**TECHNICAL  
SKILLS**

- **Programming:** Python, R
- **Database:** MySQL
- **Markup Language:** HTML, CSS, XML, XSLT, LATEX