

## Kai Li

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### RESEARCH INTERESTS

Kai Li's research interests include scholarly communication, open science, and scientometrics, especially (1) how digital research objects, such as software and datasets, and research activities are represented in scientific publications through scientific writing practices and (2) how the existing scientific infrastructure can be improved to facilitate a better integration of scientific research and writing practices. Methodologically, he is interested in applying advanced natural language processing (NLP) and text mining methods on various corpora.

### 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), 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

*RDA/US Data Share Fellowship* 2016 - 2017  
**Research Data Alliance**

- Project: Metadata Standards and Software Citation Practices
- Awarded \$10,000 plus travel support

*Student Travel Award* 2019  
**The International Society for Informetrics and Scientometrics**

*Travel Awards* 2016, 2017  
**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)

### 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

[J10] Yan, E., Chen, Z., & Li, K. (In press). Authors’ status and the perceived quality of their work: measuring citation sentiment change in Nobel papers. *Journal of the Association for Information Science and Technology*.

[J9] Li, K., Greenberg, J., & Dunic, J. (In press). Data objects and documenting scientific processes: An analysis of data events in biodiversity data papers. *Journal of the Association for Information Science and Technology*.

[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**

[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, PY. (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 disciplinary 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 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 '18)
- **INFO 683: Resources for Children** (Summer '18)
- **CI 101: Introduction to Computing and Informatics** (Fall '15)

<b>PROFESSIONAL EXPERIENCE</b>	<i>Research Intern</i>	2016 - 2017
	<b>The Children's Hospital of Philadelphia, Philadelphia, PA</b>	
	<i>Cataloger</i>	2014 - 2015
	<b>Ingram Content Group, Fort Wayne, Indiana</b>	
	<i>Cataloging Librarian</i>	2007 - 2012
	<b>Capital Library of China, Beijing, China</b>	
<b>SERVICE &amp; MEMBERSHIPS</b>	<b>Reviewer</b>	
	<ul style="list-style-type: none"> <li>• Journal of the Association for Information Science and Technology</li> <li>• Journal of Informetrics</li> <li>• Scientometrics</li> <li>• Library Hi Tech</li> <li>• IEEE Access</li> <li>• iConference Annual Meeting ('19)</li> <li>• The American Medical Informatics Association (AMIA) Annual Symposium ('18 '19)</li> </ul>	
	<b>Membership</b>	
	<ul style="list-style-type: none"> <li>• The Association for Information Science and Technology (ASIS&amp;T)</li> </ul>	
<b>TECHNICAL SKILLS</b>	<ul style="list-style-type: none"> <li>• <b>Programming:</b> Python, R</li> <li>• <b>Database:</b> SQL</li> <li>• <b>Markup Language:</b> HTML, CSS, XML, XSLT, LATEX</li> </ul>	