Kai Li, PhD

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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

ACADEMIC POSITION

Assistant Professor   2020 - Present
School of Information Resource Management
Renmin University of China, Beijing, China

EDUCATION

Ph.D. in Information Studies   2015 - 2020
College of Computing & Informatics
Drexel University, Philadelphia, PA

- Dissertation: A quantitative examination of research methods and software in scientific publications
- Advisor: Dr. Erjia Yan

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

PUBLICATIONS **Peer-Reviewed Journal Articles**

[J13] Li, K. (2021). The re-instrumentalization of the Diagnostic and Statistical Manual of Mental Disorders (DSM) in psychological publications: a citation context analysis. *Quantitative Science Studies*, pp. 1-26. `https://doi.org/10.1162/qss_a_00124`

[J12] Lou, W., Zhang, J., Li, K., & He, J. (2020). Understanding the Application of Science Mapping Tools in LIS and Non-LIS Domains. *Data and Information Management*, 4(2), 94-108. `https://doi.org/10.2478/dim-2020-0006`

[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`

[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, 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/pra2.2018.14505501147`

[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/pra2.2017.14505401138`

[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 discplinarity 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 (Online): Information Visualization** (Summer '20)
- **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** (Winter '19)
- **INFO 250: Information Visualization** (Spring '19)
- **INFO 683: Information Resources for Children** (Summer '18)
- **CI 101: Introduction to Computing and Informatics** (Fall '15)

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

PROFESSIONAL EXPERIENCE

Cataloger	2014 - 2015
Ingram Content Group, Fort Wayne, Indiana	
Cataloging Librarian	2007 - 2012
Capital Library of China, Beijing, China	

SERVICE & MEMBERSHIPS

Service
- Secretary, SIG-MET ASIST (October 2020-)

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
- ASIST Annual Conference ('19 '20)

- 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