

Jinseok Kim

Research Assistant Professor
Institute for Research on Innovation & Science (IRIS)
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Education

Ph.D. (2017): School of Information Sciences, University of Illinois at Urbana-Champaign
Dissertation: *The Impact of Author Name Disambiguation on Knowledge Discovery from Large-Scale Scholarly Data*
(Committee: Jana Diesner-Chair, Catherine Blake, Vetle Torvik, Michelle Shumate, and Seok-Hyoung Lee)

M.A. (2012): Department of Communication, University of Illinois at Urbana-Champaign

B.A. (2001): Department of English Language and Literature, Yonsei University, Korea

Appointment

2017 ~ Present: Research Assistant Professor, IRIS, SRC, ISR, University of Michigan

Research Area: Author name disambiguation, data linkage, informetrics, science of science

Funded Research

NSF (NCSES; Co-PI; 2019 ~ 2021; \$462K; PI – Jason Owen-Smith): *Creating a Data Quality Control Framework for Producing New Personnel-Based S&E Indicators*. This project develops computational methods for author name disambiguation in large-scale bibliographic data to create U.S. Science & Engineering Indicators that capture the composition, mobility, and collaboration patterns of researchers worldwide.

Publications (Jinseok's name in bold; * = corresponding author)

Journal Articles

J17: **Kim, J.***, & Kim, J. (In print). Effect of Forename String on Author Name Disambiguation. *Journal of the Association for Information Science and Technology*. DOI: 10.1002/asi.24298

J16: **Kim, J.*** (2019). A Fast and Integrative Algorithm for Evaluating Clustering Performance in Author Name Disambiguation. *Scientometrics*, 120(2), 661-681.

J15: **Kim, J.***, & Diesner, J. (2019). Formational Bounds of Link Prediction in Collaboration Networks. *Scientometrics*, 119(2), 687-706.

J14: **Kim, J.*** (2019). Scale-free Collaboration Networks: An Author Name Disambiguation Perspective. *Journal of the Association for Information Science and Technology*, 70(7), 685-700.

J13: **Kim, J.***, Kim, J., & Owen-Smith, J. (2019). Generating Automatically Labeled Data for Author Name Disambiguation: An Iterative Clustering Method. *Scientometrics*, 118(1), 253-280.

J12: **Kim, J.*** (2019). Author-Based Analysis of Conference Versus Journal Publication in Computer Science. *Journal of the Association for Information Science and Technology*, 70(1), 71-82.

- J11: **Kim, J.***, & Kim, J. (2018). The Impact of Imbalanced Training Data on Machine Learning for Author Name Disambiguation. *Scientometrics*, 117(1), 511-526.
- J10: **Kim, J.*** (2018). Evaluating Author Name Disambiguation for Digital Libraries: A Case of DBLP. *Scientometrics*, 116(3), 1867-1886.
- J9: **Kim, J.***, & Diesner, J. (2017). Over-Time Measurement of Triadic Closure in Coauthorship Networks. *Social Network Analysis and Mining*, 7(9). 1-12.
- J8: **Kim, J.***, & Diesner, J. (2016). Distortive Effects of Initial-Based Disambiguation on Measurements of Large-Scale Coauthorship Networks. *Journal of the Association for Information Science and Technology*, 67(6), 1446-1461.
- J7: **Kim, J.***, Tao, L., Lee, S-H., & Diesner, J. (2016). Evolution and Structure of Scientific Co-Publishing Network in Korea between 1948 and 2011. *Scientometrics*, 107(1), 27-41.
- J6: **Kim, J.***, & Diesner, J. (2015). The Effect of Data Pre-processing on Understanding the Evolution of Collaboration Networks. *Journal of Informetrics*, 9(1), 226-236.
- J5: **Kim, J.***, & Diesner, J. (2015). Coauthorship Networks: A Directed Network Approach Considering the Order and Number of Coauthors. *Journal of the Association for Information Science and Technology*, 66(12), 2685-2696.
- J4: **Kim, J.***, & Kim, J. (2015). Rethinking the Comparison of Coauthorship Credit Allocation Schemes. *Journal of Informetrics*, 9(3), 667-673.
- J3: **Kim, J.***, & Diesner, J. (2014). A Network-Based Approach to Coauthorship Credit Allocation. *Scientometrics*, 101(1), 587-602.
- J2: Diesner, J.* **Kim, J.**, & Pak, S. (2014). Computational Impact Assessment of Social Justice Documentaries. *Journal of Electronic Publishing*, 17(3). DOI: 10.3998/3336451.0017.306
- J1: **Kim, J.**, Kim, H., & Diesner, J.* (2014). The Impact of Name Ambiguity on Properties of Coauthorship Networks. *Journal of Information Science Theory and Practice*, 2(2), 6-15.

Peer-Reviewed Conference Papers & Book Chapters

- C3: Diesner, J.* **Kim, J.**, Evans, C., and **Kim, J.** (2015) Impact of Entity Disambiguation Errors on Social Network Properties. International AAAI (Association for the Advancement of Artificial Intelligence) Conference on Web and Social Media (ICWSM). Oxford, UK.
- C2: **Kim, J.***, Diesner, J., Aleyasen, A., Kim, H., & Kim, H.-M. (2014). Why Name Ambiguity Resolution Matters for Scholarly Big Data Research. 2014 IEEE Conference on Big Data, Washington, DC.
- C1: Diesner, J.* **Kim, J.**, Pak, S., Aleyasen, A., & Soltani, K. (2014). Computational Assessment of the Impact of Social Justice Documentaries. *iConference 2014*. Berlin, Germany.
- B1: Shumate, M.* **Kim, J.**, Pilny, A., Atouba, Y., Pena-y-Lillo, M., Cooper, K., & Yang, S. (2013). A Taxonomy of Communication Networks. The Communication Yearbook 37, International Communication Association. 94-123.

Peer-Reviewed Extended Abstracts & Presentations at Professional Meetings

- P11: **Kim, J.**, & Diesner, J. (2018). Biases in Bibliometric Network Data and the Measurement of Triadic Closure. Presentation at the 2nd European Symposium on Societal Challenges in Computational Social Science: Discrimination and Bias, Cologne, Germany
- P10: Mishra, S., Lee, H., **Kim, J.**, Torvik, V., & Diesner, J. (2018). Construction of Hierarchical Subject Headings

for Computer Science and their Application to Studying Temporal Trends in Scholarly Literature. Poster at 4th Annual International Conference on Computational Social Science (IC2S2), Evanston, IL.

- P9: **Kim, J.**, & Diesner, J. (2014). The Impact of Data Quality on Knowledge Discovery in Big Data: A Case of Name Ambiguity. Presentation at the Daegu-Gyeongbuk International Social Network Conference. Daegu, Korea.
- P8: Diesner, J., & **Kim, J.** (2014). Computational Impact Assessment of Social Justice Media. Presentation at the Daegu-Gyeongbuk International Social Network Conference. Daegu, Korea.
- P7: Diesner, J., **Kim, J.**, & Higgins, A. (2014). Socio-Semantic Network Analysis for Impact Assessment. European Social Networks Conference (EUSN 2014). Barcelona, Spain.
- P6: **Kim, J.**, & Diesner, J. (2014). Structure of Scientific Collaboration: Considering the Order of Co-authors for Co-authorship Networks. Presentation at the International Network for Social Network Analysis. Saint Pete, FL.
- P5: Diesner J, **Kim J**, Pak S (2014). Socio-Semantic Network Analysis for Impact Assessment of Documentaries. Presentations at International Network for Social Network Analysis. St Pete Beach, FL.
- P4: Diesner, J., Aleyasen, A., **Kim, J.**, Mishra, S., & Soltani, S. (2013). Using Socio-Semantic Network Analysis for Assessing the Impact of Documentaries. WIN (Workshop on Information in Networks) 2013. New York, NY.
- P3: Diesner J, Aleyasen A, **Kim J**, Mishra S, Soltani K, Wilner S (2013). Impact Assessment and ConText. Dissection: Impact. Oakland, CA.
- P2: **Kim, J.**, & Diesner, J. (2013). Structural Balance in Story Structures. Presentation at the International Network for Social Network Analysis. Hamburg, Germany.
- P1: **Kim, J.**, & Shumate, M. (2012). Factors Affecting Coauthorship Decisions among Communication Scholars. Poster presented at the International Network for Social Network Analysis. Los Angeles, CA.

Tool Development & Teaching

Development Team Member (2012-2014): ConText - A Java-based software for the construction of network data from natural language texts and the joint analysis of text data and network data (www.context.lis.illinois.edu).

Graduate Instructor: 2017 Summer & 2016 Fall: Social Media Analytics (LIS590SML)

Teaching Assistant: 2016 Spring: Social Computing (LIS590SF)

Guest Instructor on collecting, analyzing, and visualizing network and text data:

- (1) U. of Illinois courses: Digital Humanities (LIS590DH; 2013, 2014), Information Networks (LIS590IN; 2013), Social Computing (LIS590SF; 2012), and Network Analysis (LIS590NA; 2012~2015)
- (2) Conference workshops: Daegu-Gyeongbuk International Social Network Conference (Daegu, Korea; 2014) and International Network for Social Network Analysis (Saint Pete, FL; 2014)

Invited Talks

“The Impact of Author Name Disambiguation on Knowledge Discovery from Large-Scale Scholarly Data: A Case of Power-Law Distribution” (2017). Department of Interaction Science, Sungkyunkwan University, Seoul, Korea.

“Mining Social Media Data with NodeXL” (2017). Brian Lamb School of Communication, Purdue University, West Lafayette, IN.

“Hands-on Network Analysis” (2016). Computational Social Science Workshop, The Institute for Computing in Humanities, Arts, and Social Sciences (I-CHASS). University of Illinois at Urbana-Champaign, IL.

“Coauthor Order: A Network Approach” (2013). Korea Institute of Science & Technology Information (KISTI). Daejeon, Korea

“Seeing the Unseen: Detecting Social Ties from Archival Data” (2012). Illinois Institute of Technology, Chicago, IL.

Grant Proposal Reviewer

NSF (Intelligent Information Systems Division, 2019); Alfred P. Sloan Foundation

Ad-hoc Journal Reviewer (2014 ~ present)

International Journal of Information Management; Journal of the Association for Information Science and Technology; Journal of Complex Networks; Journal of Informetrics; Journal of Machine Learning Research; Physica A; PlosOne; Quantitative Science Studies; Scientometrics; Social Network Analysis and Mining

Awards and Honors

Berner-Nash Memorial Award for Outstanding Doctoral Dissertation (2018)

The Elssesser Fellowship (2017)

Microsoft Azure for Research Award (2016/06~2017/05)

Eugene Garfield Doctoral Dissertation Fellowship by Beta Phi Mu¹ (2016~2017)

Selected and Supported for Participation at the *i*Conference 2016 Doctoral Colloquium (Philadelphia, PA)

Best Student Paper 2014 (1st Place Winner): Awarded at the annual meeting of ASIS&T 2014 (Seattle, WA) by the Association for Information Science and Technology SIG/Metrics

Student Travel Support by School of Information Sciences and/or Graduate College, University of Illinois at Urbana-Champaign: 2016/03, 2014/12, 2014/05, and 2013/05

Selected and Supported for Participation at The Summer Social WebShop at the University of Maryland at College Park (2012).

¹ The International Library and Information Studies Honor Society