

Jiqun Liu, PhD

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RESEARCH INTERESTS	Interactive information retrieval; Evaluation of search systems; Cognitive biases in search and recommendation; Bias in large language models (LLMs); Bias mitigation; Medical information judgment; Generative information retrieval; Data reusability	
ACADEMIC POSITIONS	Assistant Professor, Data Science, SLIS Affiliated Assistant Professor, Psychology Faculty Affiliate, Data Institute for Societal Challenges The University of Oklahoma, Norman, OK	2020- present 2021- present 2021- present
EDUCATION	Ph.D. in Information Science School of Communication & Information Rutgers University, New Brunswick, NJ Master of Management in Information Science Department of Information Management Peking University, Beijing, China Bachelor of Management in Library Science Bachelor of Economics in Finance The Business School Nankai University, Tianjin, China	2016 - 2020 2014 - 2016 2010 – 2014 2011 – 2014
HONORS & AWARDS	• ASIS&T SIG USE Information Behavior Best Paper Award (2023) • ASIS&T SIG USE Information Behavior Best Poster Award (2022) • ACM/IEEE JCDL Vannevar Bush best paper award nominee (2022) • ASIS&T Annual Meeting best student paper award (2019) • Outstanding doctoral student award from Rutgers iSchool (2019) • ACM SIGIR student travel grant (2017, 2018, 2019, 2020) • ASIS&T SIG USE student conference travel award (2019) • Doctoral fellowship from Rutgers iSchool (2016-2017) • Excellent Graduate of Peking University (2016) • Peking University Academic Scholarship (2015, 2016) • Peking University National Scholarship (2015)	
EXTERNAL GRANTS	• Microsoft Research Award: Functional fixedness evaluation in human-large language model (LLM) interaction, PI: Jiqun Liu, \$20,000. February 2024 - • Elfreda A. Chatman Research Award: Enhancing AI literacy through maker-based learning with Generative AI. PI: Yong Ju Jung; co-PI: Jiqun Liu, \$1,000. ASIS&T SIG USE. November 2024 – 2025.	

INTERNAL
GRANTS

- Research Experience for Undergraduates (REU) supplemental award from the **National Science Foundation (NSF)** bias-aware user modeling in interactive IR project, **PI: Jiqun Liu, \$8,000**, September 2022 – May 2024
- **National Science Foundation (NSF) CRII: III-2106152**: “A bias-aware approach to modeling users in interactive information retrieval”, **PI: Jiqun Liu, \$174,959**, May 2021 – 2024
- Faculty Investment Program Project: “Making mistakes like humans: Detecting biased judgments of Artificial Intelligence”, University of Oklahoma Office of the Vice President for Research and Partnerships, **PI: Jiqun Liu, \$15,000**, January 2025 – January 2026.
- DISC Seed Fund 2023: “Bias-aware evaluation of generative search engine: An exploratory study”, the Data Institute for Societal Challenges (DISC), University of Oklahoma, **\$10,000, PI: Jiqun Liu**, October 2023 – October 2024
- Bridge Funding Investment Program Award, “Identifying and mitigating cognitive biases in Generative-AI-assisted online learning”, University of Oklahoma Office of the Vice President for Research and Partnerships, **\$33,918, PI: Jiqun Liu**, Fall 2023
- Junior Faculty Fellowship Program Award, “Toward a two-sided fairness framework for search and recommendation”, University of Oklahoma Office of the Vice President for Research and Partnerships, **\$7,000, PI: Jiqun Liu**, Summer 2023
- DISC Seed Fund 2022: “Active learning method for fair and useful Learning to Rank (LTR) in intelligent information retrieval”, the Data Institute for Societal Challenges (DISC), University of Oklahoma, **\$9,800, PI: Jiqun Liu**, Co-PI: Chao Lan (School of Computer Science), May 2022 – May 2023
- Junior Faculty Summer Fellowship Program award, “Assessing the reusability of session test collections in evaluating intelligent information retrieval systems”, University of Oklahoma DFCAS, **PI: Jiqun Liu, \$7,000**, Summer 2022
- Faculty Investment Program Project: “Toward expectation-based effectiveness metrics for adaptive whole session information retrieval evaluation”, University of Oklahoma Office of the Vice President for Research and Partnerships, **PI: Jiqun Liu, \$15,000**, January 2022 – January 2023.
- Junior Faculty Fellowship Program award, “Learning task type and states for adaptively supporting users in complex search tasks”, University of Oklahoma Office of the Vice President for Research and Partnerships, **PI: Jiqun Liu, \$7,000**, Summer 2021

PUBLICATIONS

Note *: PhD student advisee. †: master student advisee. ★: undergraduate advisee.

Manuscripts Under Review

[UR4] Tian, Y., Liu, Y., Bu, Y. & **Liu, J.** Who gets recommended? Investigating gender, race, and country disparities in paper recommendations from Large Language Models.

[UR3] **Liu, J.** & He, J. The decoy dilemma in online medical information evaluation: A comparative study of credibility assessments by LLM and human judges.

[UR2] Lei, J.★, Hu, L.★, Bu, Y. & **Liu, J.** Understanding teams and productivity in information retrieval research: Academia, industry, and cross-community collaborations.

[UR1] Jiang, T.[†], Li, W. & Liu, J. The landscape of data reuse in interactive information retrieval: Motivations, sources, and evaluation of reusability.

Peer-Reviewed Research Monographs

[B2] Liu, J. (2023). A behavioral economics approach to interactive information retrieval: Understanding and supporting boundedly rational users. Cham, Switzerland: Springer Nature. <https://link.springer.com/book/10.1007/978-3-031-23229-9>

[B1] Liu, J. & Shah, C. (2019). Interactive IR user study design, evaluation, and reporting. Synthesis Lectures on Information Concepts, Retrieval, and Services. Morgan & Claypool Publishers. <https://link.springer.com/book/10.1007/978-3-031-02319-4>

Peer-reviewed Journal Articles

[J13] Chen, N., Liu, J., Fang, H., Luo, Y., Sakai, T. & Wu, X. (2024). Decoy effect in search interaction: Understanding user behavior and measuring system vulnerability. *ACM Transactions on Information Systems (TOIS)*.
<https://dl.acm.org/doi/pdf/10.1145/3708884>

[J12] Zhang, Y.* & Liu, J. (2024). Falling behind again? Characterizing and assessing older adults' algorithm literacy in interactions with video recommendations. *Journal of the Association for Information Science and Technology (JASIST)*. 1–17.
<https://doi.org/10.1002/asi.24960>.

[J11] Wang, B.* & Liu, J. (2024). Understanding users' dynamic perceptions of search gain and cost in sessions: An expectation confirmation model. *Journal of the Association for Information Science and Technology*. 75(9): 937-956. (JASIST).

[J10] Jung, Y. J. & Liu, J. (2024). Toward a conceptual framework characterizing the interplay of interest development, information search, and knowledge construction (ISK) in children's learning. *Aslib Journal of Information Management (AJIM)*

[J9] Jiang, T. & Liu, J. (2024). Reflection on future directions: A systematic review of reported limitations and solutions in interactive information retrieval user studies. *Aslib Journal of Information Management*. 76(1): 104-131. (AJIM)

[J8] Markwald, M., Liu, J. & Yu, R. (2023). Constructing and meta-evaluating state-aware evaluation metrics for interactive search systems. *Information Retrieval Journal*. 26(1), 10. (IRJ)

[J7] Zhang, Y.* & Liu, J. (2023). Deconstructing proxy health information-seeking behavior: A systematic review. *Library and Information Science Research*. 45(3): 101250. (LIS&R)

[J6] Wang, B.* & Liu, J. (2023). Investigating the role of in-situ user expectation in Web search. *Information Processing and Management*. 60(3): 103300. (IP&M)

[J5] Liu, J. (2022). Toward Cranfield-inspired reusability assessment in interactive information retrieval evaluation. *Information Processing and Management*, 59(5), 103007. (IP&M)

[J4] Liu, J. (2021). Deconstructing search tasks in interactive information retrieval: A systematic review of task dimensions and predictors. *Information Processing and Management*, 58(3): 102522. (IP&M)

- [J3] Sarkar, S., Mitsui, M., **Liu, J.**, & Shah, C. (2020). Implicit information needs as explicit problems, help, and behavioral signals. *Information Processing and Management*, 57(2), 102069. (IP&M)
- [J2]. **Liu, J.**, Wang, Y., Mandal, S., & Shah, C. (2019). Exploring the immediate and short-term effects of peer advice and cognitive authority on Web search behavior. *Information Processing and Management*, 56(3), 1010-1025. (IP&M)
- [J1]. **Liu, J.** (2017). Toward a unified model of human information behavior: An equilibrium perspective. *Journal of Documentation*, 73(4), 666-688. (JDoc)

Peer-reviewed Conference Papers

- [C27] **Liu, J.** & He, J. (2024). Boundedly rational searchers interacting with medical misinformation: Characterizing context-dependent decoy effects on credibility and usefulness evaluation in sessions. In *Proceedings of the ACM SIGIR Conference on Human Information Interaction and Retrieval*. New York, NY: ACM (CHIIR).
- [C26] Chen, N., **Liu, J.**, Dong, X., Liu, Q., Sakai, T. & Wu, X-M. (2024). AI can be cognitively biased: An exploratory study on threshold priming in LLM-based batch relevance assessment. In *Proceedings of the 2nd International ACM SIGIR Conference on Information Retrieval in the Asia Pacific (SIGIR-AP)*.
- [C25] Zhang, Y* & **Liu, J.** (2024). Unpacking older adults' mental models of video recommender systems: A qualitative study. In *Proceedings of the ACM/IEEE Joint Conference on Digital Libraries*. (JCDL).
- [C24] Wang, B* & **Liu, J.** (2024). Cognitively biased users interacting with algorithmically biased results in whole-session search on debated topics. In *Proceedings of the ACM SIGIR Conference on the Theory of Information Retrieval*. (ICTIR)
- [C23] Wang, B*, **Liu, J.**, Karimnazarov, J*, & Thompson, N*. (2024) Task supportive and personalized human-large language model interaction: A user study. In *Proceedings of the ACM SIGIR Conference on Human Information Interaction and Retrieval*. (pp.370-375). Sheffield, UK. (CHIIR)
- [C22] Wang, X., Rahmani, H., **Liu, J.**, & Yilmaz, E. (2023). Improving conversational recommendation systems via bias analysis and language-model-enhanced data augmentation. In *Proceedings of the Findings of Empirical Methods in Natural Language Processing*. (pp.3609-3622) (EMNLP)
- [C21] Wang, B*. & **Liu, J.** (2023). Characterizing and early predicting user performance for adaptive search path recommendation. In *Proceedings of the Annual Meeting of the Association for Information Science and Technology*. [SIG USE best information behavior paper award] (ASIS&T)
- [C20] Chen, N[†], **Liu, J.**, & Sakai, T. (2023). A reference-dependent model for Web search evaluation: Understanding and measuring the experience of boundedly rational users. In *Proceedings of the ACM Web Conference 2023*. (pp. 3396-3405). New York, NY: ACM. (WWW)
- [C19] **Liu, J.** (2023). Toward a two-sided fairness framework in search and recommendation. In *Proceedings of the ACM SIGIR Conference on Human Information Interaction and Retrieval*. (pp.236-246). Austin, TX. (CHIIR)

- [C18] Lei, J^{*}, Bu, Y., & Liu, J. (2023). Information retrieval research in academia and industry: A preliminary analysis of productivity, authorship, impact, and topic distribution. In *iConference 2023*.
- [C17]. Liu, J. & Han, F[†]. (2023). 5-4 $\neq$ 4-3: On the uneven gaps between different levels of graded user satisfaction in interactive information retrieval evaluation. In *Proceedings of 56th Hawaii International Conference on System Sciences*. Maui, HI. (HICSS)
- [C16]. Brown, T[†]. & Liu, J. (2022). A reference dependence approach to enhancing early prediction of session behavior and satisfaction. In *Proceedings of ACM/IEEE Joint Conference on Digital Libraries*. (pp. 1-5). Cologne, Germany. (JCDL)
- [C15]. Liu, J. & Han, F[†]. (2022). Matching search result diversity with user diversity acceptance in Web search sessions. In *Proceedings of ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 2473-2477). Madrid, Spain. (SIGIR)
- [C14]. Liu, J. & Shah, C. (2022). Leveraging user interaction signals and task state information in adaptively optimizing usefulness-oriented search sessions. In *Proceedings of ACM/IEEE Joint Conference on Digital Libraries* (pp. 1-11). Cologne, Germany. **[Vannevar Bush best paper award nominee]**. (JCDL)
- [C13]. Liu, J., & Yu, R. (2021). State-aware meta-evaluation of evaluation metrics in interactive information retrieval. In *Proceedings of the 30th ACM International Conference on Information & Knowledge Management* (pp. 3258-3262). Virtual Event, Australia. (CIKM)
- [C12]. Liu, J. & Jung, Y. J. (2021). Interest development, knowledge learning, and interactive IR: Toward a state-based approach to search as learning. In *Proceedings of the Conference on Human Information Interaction and Retrieval* (pp. 239-248). Canberra, Australia. (CHIIR)
- [C11]. Liu, J. & Han, F[†]. (2020). Investigating reference dependence effects on user search interaction and satisfaction. In *Proceedings of the ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 1141-1150). Xi'an, China. (SIGIR)
- [C10]. Liu, J., Sarkar, S., & Shah, C. (2020). Identifying and predicting the states of complex search tasks. In *Proceedings of the ACM SIGIR Conference on Human Information Interaction and Retrieval* (pp. 193-202). Vancouver, Canada. (CHIIR)
- [C9]. Liu, J., & Shah, C. (2019). Proactive identification of query failure. In *Proceedings of the Annual Meeting of the Association for Information Science and Technology*, 56(1), 176-185. **[Best student paper award]** (ASIS&T)
- [C8]. Liu, J., Mitsui, M., Belkin, N. J., & Shah, C. (2019). Task, information seeking intentions, and user behavior: Toward a multi-level understanding of web search. In *Proceedings of the ACM SIGIR 2019 Conference on Human Information Interaction and Retrieval* (pp. 123-132). Glasgow, UK. (CHIIR)
- [C7]. Liu, J., & Shah, C. (2019). Investigating the impacts of expectation disconfirmation on web search. In *Proceedings of the ACM SIGIR 2019 Conference on Human Information Interaction and Retrieval* (pp. 319-323). Glasgow, UK. (CHIIR)

- [C6]. Mitsui, M., **Liu, J.**, & Shah, C. (2018). How much is too much? Whole session vs. first query behaviors in task type prediction. In *Proceedings of the ACM SIGIR 2018 Conference on Research and Development in Information Retrieval* (pp. 1141-1144). Ann Arbor, MI. (**SIGIR**)
- [C5]. Mitsui, M., **Liu, J.**, & Shah, C. (2018). The paradox of personalization: Does task prediction require individualized models? In *Proceedings of the ACM SIGIR 2018 Conference on Human Information Interaction and Retrieval* (pp. 277-280). New Brunswick, NJ. (**CHIIR**)
- [C4]. Mitsui, M., **Liu, J.**, Belkin, N. J., & Shah, C. (2017). Predicting information seeking intentions from search behaviors. In *Proceedings of the ACM SIGIR 2017 Conference on Research and Development in Information Retrieval* (pp. 1121-1124). Tokyo, Japan. (**SIGIR**)
- [C3]. Liu, C., **Liu, J.**, & Wei, Y. (2017). Scroll up or down? Using wheel activity as an indicator of browsing strategy across different contextual factors. In *Proceedings of the ACM SIGIR 2017 Conference on Conference Human Information Interaction and Retrieval* (pp. 333-336). Oslo, Norway. (**CHIIR**)
- [C2]. Wang, Y., **Liu, J.**, Mandal, S., & Shah, C. (2017). Search successes and failures in query segments and search tasks: A field study. In *Proceedings of the 80th Annual Meeting of the Association for Information Science and Technology*, 54(1), 436-445. (**ASIS&T**)
- [C1]. Li, Y., **Liu, J.** (2017). Chinese individual investors' information-seeking behavior on the Web. (10 pages). Paper presented at *iConference 2017*, Wuhan, China.

Peer-reviewed Conference Posters

- [P8]. Jung, Y. J., **Liu, J.**, Karahan, H., & Nazari, M* (2024). Tech treasure hunt: Promoting children's learning on how algorithm works at a public library. In *Proceedings of the Association for Information Science and Technology*. 61(1): 962-964.
- [P7]. Jung, Y. J., & **Liu, J.** (2022). Children's interest, search, and knowledge: A pilot analysis of a STEM maker workshop. In *Proceedings of the Association for Information Science and Technology*. 59(1): 720-722. **[SIG USE best information behavior conference poster award]** (**ASIS&T**)
- [P6]. Wang, B*, & **Liu, J.** (2022). Investigating the relationship between in-situ user expectations and Web search behavior. In *Proceedings of the Association for Information Science and Technology*. 59(1): 827-829. (**ASIS&T**)
- [P5]. Ghosh, S*, & **Liu, J.** (2022). OUHCIR at the NTCIR-16 Data Search 2 Task. In *Proceedings of the NTCIR-16 Conference* (pp. 46-50). Tokyo, Japan. (**NTCIR**)
- [P4]. Wang, B*, & **Liu, J.** (2021). Extracting the implicit search states from explicit behavioral signals in complex search tasks. In *Proceedings of the Association for Information Science and Technology*, 58(1), 854-856. (**ASIS&T**)
- [P3]. Wang, Y., **Liu, J.**, Mandal, S., & Shah, C. (2018). Persuasion by peer or expert for Web search. In *Proceedings of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing* (pp. 225-228). Jersey City, NJ. (**CSCW**)

[P2]. Yu, B., Ndumu, A., **Liu, J.** & Fan, Z. (2016). E-inclusion or digital divide: An integrated model of digital inequality. In *Proceedings of the 79th Annual Meeting of the Association for Information Science and Technology*, 53(1), 1-5. (**ASIS&T**)

[P1]. **Liu, J.**, & Wang, Y. (2016). Information worth spreading: An exploration of information sharing from social Q&A to other social media platforms. In *Proceedings of the 79th Annual Meeting of the Association for Information Science and Technology*, 53(1), 1-5. (**ASIS&T**)

Tutorial

[TU3] Azzopardi, L. & **Liu, J.** (2024). Evaluating cognitive biases in conversational and generative IIR: A tutorial. In *Proceedings of the ACM SIGIR Conference on Information Retrieval in the Asia Pacific*. (**SIGIR-AP**).

[TU2] **Liu, J.** & Azzopardi, J. (2024). Search under uncertainty: Cognitive biases and heuristics – Tutorial on testing, mitigating and accounting for cognitive biases in search experiments. In *Proceedings of the ACM SIGIR Conference on Research and Development in Information Retrieval* (**SIGIR**)

[TU1]. Azzopardi, L., & **Liu, J.** (2024). Search under Uncertainty: Cognitive Biases and Heuristics-Tutorial on Modeling Search Interaction using Behavioral Economics. In *Proceedings of the 2024 ACM SIGIR Conference on Human Information Interaction and Retrieval* (pp. 427-430). (**CHIIR**)

Workshop Paper/Organizing

[W7] Hoppe, A., Yu, R., & **Liu, J.**, & Bhattacharya, N. (2025). IWILDS'25: The 5th international workshop on investigating learning during Web search. In *Proceedings of the 18th ACM International Conference on Web Search and Data Mining*. Hannover, Germany (**WSDM**).

[W6] Li, Y., **Liu, J.**, Sarkar, S., Cox, A. & Hajibayova, L. (2024). Enhancing library and information science with Large Language Models (LLMs): Research, education, practices (SIG-AI). In *Proceedings of the 87th Annual Meeting of the Association for Information Science and Technology*. Calgary, Canada. (**ASIS&T**)

[W5] Boonprakong, N., He, G., Gadiraju, U., Van Berkel, N., Wang, D., Chen, S., Liu, J., Tag, B., Goncalves, J. & Dingler, T. (2023). Workshop on understanding and mitigating cognitive biases in Human-AI collaboration. In *Companion Publication of the 2023 Conference on Computer Supported Cooperative Work and Social Computing* (pp. 512-517). (**CSCW**)

[W4] Chen, N[†], **Liu, J.**, Sakai, T. & Wu, X. (2023). Decoy effect in search interaction: A pilot study. In *Proceedings of the 2023 Workshop on Evaluating Information Access (EVIA) at NTCIR-17*. (**NTCIR**)

[W3] Hoppe, A., Yu, R., & **Liu, J.** (2022). IWILDS'22: Third International Workshop on Investigating Learning During Web Search. In *Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 3482-3484). Madrid, Spain. (**SIGIR**)

[W2]. Hoppe, A., Yu, R., Brich, I., & **Liu, J.** (2021) IWILDS'21: Second international workshop on learning during Web search. In *Proceedings of the 30th ACM International*

Conference on Information & Knowledge Management (pp. 4880-4881). Virtual event, Australia. (CIKM)

[W1]. Liu, J., Wacholder, N. (2017). Classification systems as visualization and navigational tool in online searching: A technique for supporting multi-cultural information seeking. Paper presented at *the 80th Annual Meeting of the Association for Information Science and Technology* (ASIS&T'17 SIG\CR workshop). Crystal City, VA. (ASIS&T)

Peer-reviewed Conference Demos

[D1]. Mitsui, M., Liu, J., & Shah, C. (2018). Coagmento: Past, present, and future of an individual and collaborative information seeking platform. In *Proceedings of the 2018 Conference on Human Information Interaction and Retrieval* (pp. 325-328). New Brunswick, NJ. (CHIIR)

Doctoral Consortia

[DC2]. Liu, J. (2019). Characterizing the stages of complex tasks. In *Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 1445-1445). Paris, France. Mentors: Dr. Gareth Jones and Dr. Noriko Kando. (SIGIR)

[DC1]. Liu, J. (2019). A reference-dependent model of search evaluation. In *Proceedings of the ACM SIGIR 2019 Conference on Human Information Interaction and Retrieval* (pp. 405-408). Glasgow, UK. Mentor: Dr. Diane Kelly. (CHIIR)

INVITED TALKS

[T30] "Beyond rationality: Uncovering human biases and building bias-resistant search experiences", National Institute of Informatics, Tokyo, Japan. December 16, 2024.

[T29] "Beyond rationality: Uncovering human biases and building bias-resistant search experiences", InfoSeeking Lab at Information School, University of Washington, Sept. 25, 2024.

[T28] Invited speaker/panelist on AI and Social Justice, AI TENNessee Initiative, the University of Tennessee, Knoxville, TN. June 27, 2024.

[T27] Invited speaker/panelist on AI and Ethics, AI TENNessee Initiative, the University of Tennessee, Knoxville, TN. June 26, 2024.

[T26] Invited speaker/panelist on AI, Ethics, and Social Justice at Social Machines and AI Robotics Technology (SMART) workshop, the University of Tennessee, Knoxville, TN. May 1st, 2024.

[T25] Invited presentation on my book titled "A behavioral economics approach to interactive information retrieval: Understanding and supporting boundedly rational users" at the SC&I Alumni book panel. School of Communication and Information, Rutgers University, Nov. 15, 2023.

[T24] "Bias-aware user modeling in intelligent search and recommendation", Data Institute for Societal Challenges, the University of Oklahoma, Nov. 9, 2023.

[T23] "Bias-aware user modeling in information search, recommendation, and human-AI interaction", University College London AI Center, London, UK, Oct. 27, 2023.

- [T22] "Identifying and mitigating user cognitive biases in interactive information retrieval", Keynote Talk at ACM CSCW 2023 Workshop on Understanding and Mitigating Cognitive Biases in Human-AI Collaboration, Minneapolis, MN. Oct. 14, 2023.
- [T21] "Bias-aware user modeling in intelligent search and recommendation", College of Information, University of North Texas. Oct. 13, 2023.
- [T20] "Bias-aware user modeling in information search, recommendation, and human-AI interaction", LexisNexis, New York. Oct. 12, 2023.
- [T19] "Understanding and supporting boundedly rational users in intelligent information retrieval", Center for Intelligent Information Retrieval, Manning College of Information & Computer Sciences, University of Massachusetts Amherst, April 28, 2023.
- [T18] "Understanding and supporting boundedly rational users in intelligent information retrieval and recommendation", RMIT Centre for Information Discovery & Data Analytics, March 1, 2023.
- [T17] "Understanding and supporting boundedly rational users in task-based intelligent information retrieval and recommendation", Department of Information Management, Peking University, December 5, 2022.
- [T16] "Understanding and supporting boundedly rational users in task-based intelligent information retrieval and recommendation", College of Science, Technology, Engineering, and Mathematics Colloquium (CSTEM) invited talk, University of Arkansas at Little Rock. September 23, 2022.
- [T15] "Matching search result diversity with user diversity acceptance in Web search sessions", OU Data Scholarship Program (DSP) Research Colloquium, May 5, 2022
- [T14] "Understanding boundedly rational users in task-based intelligent information retrieval", IST invited seminar talk, George Mason University, March 24, 2022
- [T13] "Understanding boundedly rational users in task-based intelligent information retrieval", OU Four-Year Research Engagement (FYRE) Program Talk, March 2, 2022
- [T12] "Understanding boundedly rational users in task-based intelligent information retrieval", The Information School, University of Wisconsin-Madison, Oct. 29, 2021
- [T11] "User-centered interactive information retrieval meta-evaluation", School of Information Resources Management, Renmin University of China, Oct. 22, 2021
- [T10] "Understanding boundedly rational users in task-based intelligent information retrieval", College of Information, University of North Texas, July 19, 2021
- [T9] "Investigating reference dependence effects on user search interaction and satisfaction", Information & Innovation Lab, University of South Australia, May 4, 2021
- [T8] "Investigating reference dependence effects on user search interaction and satisfaction", InfoSeeking Lab, University of Washington iSchool, Dec. 9, 2020
- [T7] "Investigating reference dependence effects on user search interaction and satisfaction", SLIS Research Colloquium, University of Oklahoma, Nov. 20, 2020
- [T6] "User studies in LIS research", Guest lecture for LS550 Research Methodology in Library Science, Clarion University of Pennsylvania, PA, September 13, 2020

[T5] "Systematic cognitive biases in human information interaction", Business School, Nankai University, May 22, 2020

[T4] "Going from "what" and "how" to "why": Understanding tasks, intentions, and search obstacles in information search interactions", School of Information Management, Wuhan University, December 17, 2019

[T3] "Going from "what" and "how" to "why": Understanding tasks, intentions, and search obstacles in information search interactions", Department of Information Management, Peking University, December 11, 2019

[T2] "Going from "what" and "how" to "why": Understanding tasks, intentions, and search obstacles in information search interactions", School of Government, Beijing Normal University, December 10, 2019

[T1] "Going from "what" and "how" to "why": Understanding tasks, intentions, and search obstacles in information search interactions", School of Information Resources Management, Renmin University of China, December 9, 2019

TEACHING EXPERIENCE

Instructor

PhD level

- LIS 6543: Social and Community Informatics (Fall 2023, OU)

Master of Library and Information Studies/Informatics

- LIS 4643: Introduction to Data Analytics (Summer, 2024, OU)
- LIS 4/5213: Social Informatics (Spring, 2024, OU)
- LIS 5053: Information Seeking and Use (Fall 2023, OU)
- LIS 5053: Information Seeking and Use (Spring 2023, OU)
- LIS 5053: Information Seeking and Use (Spring, 2021, OU)
- LIS 4643: Introduction to Data Analytics (Spring, 2022, OU)
- LIS 4/5213: Social Informatics (Spring, 2022, OU)
- MI 564: Machine Learning for Data Science (master-level, Spring 2020, RU)

Bachelor of Science in Information Science and Technology (Undergraduate Level)

- LIS4673/5673: Introduction to Information Visualization (Spring 2024, OU)
- LIS 3063: Essentials of IT and Informatics (Spring 2023, OU)
- LIS 4/5970: Evaluating Interactive Information Systems with Users (Fall 2022, OU)
- LIS4673/5673: Introduction to Information Visualization (Fall, 2022, OU)
- LIS4673/5673: Introduction to Information Visualization (Fall, 2021, OU)
- ITI 220: Retrieving and Evaluating Electronic Information (Fall 2019, RU)
- ITI 200: Social Informatics (Summer 2019, RU)
- ITI 200: Social Informatics (Spring 2019, RU)
- ITI 220: Retrieving and Evaluating Electronic Information (Fall 2018, RU)

Course material developed/revised significantly for:

- Evaluating Interactive Information Systems with Users (new course)
- Social and Community Informatics (PhD level, new course)
- Social Informatics (new course)
- Introduction to Information Visualization (significant changes made)

Teaching Assistant

- **ITI 103:** Information Technology and Informatics (Spring 2018, RU)
- **MI 510:** Human Information Behavior (Fall 2017, RU)

Teaching Training

- Design Your Own Course (Syllabus development, Assignments and Projects, and Active Learning Strategies). Fall 2018, RU.
- Introduction to College Teaching. Spring 2018, RU.

Research Student Advising

• PhD student

1. Ben Wang (LIS, OU, fall 2021- ; PhD candidate), primary advisor
2. Mahdiah Nazari (LIS, OU, fall 2022-), primary advisor
3. Satanu Ghosh (LIS, OU, fall 2021- 2022), committee member
4. Xue Pan (LIS, OU, fall 2020 -), committee member
5. Li Shi (School of Information, UT Austin, fall 2024 -), external committee member

• Master student

1. Babak Mohammadizadeh Khoshroo (M.S. Data Science; PhD Philosophy, 2023)
2. Darius Jones (M.S. Data Science, 2022)
3. Meghana Nagendra (M.S. Data Science, 2021)
4. Tyler Brown (M.S. Data Science, 2021)
5. Ruth Davenport (M.S. Data Science, 2021)
6. Julie Torgerson (MLIS/Library Studies, Graduate Assistant, 2020-2021)

• Undergraduate student

1. Danielle Mosby (Information Science and Technology, 2024-)
2. Diego Omar Cifuentes Madero (Computer Engineering, 2024-)
3. Nicholas Thompson (Computer Science and Statistics, 2023-)
4. Jamshed Karimnazarov (Computer Science, 2023-)
5. Brandon Robertiello (Computer Science, 2023-)
6. Jack Graham (Economics, 2023-)
7. Keon Moradi (Computer Science and Mathematics, 2022-)
8. Zeming Hu (Petroleum Engineering, 2022-)
9. Pragya Chatterjee (BSIST, 2021)
10. Marc Hanna (Computer Science, 2021)

• Visitors/external student collaborators

1. Yuhao Zhang (Visiting Scholar/PhD student, Renmin University of China)
2. Tianji Jiang (PhD student, UCLA)
3. Shawon Sarkar (PhD student, University of Washington)
4. Nuo Chen (Master student, Waseda University)
5. Jiaqi Lei (Undergraduate student, Peking University)
6. Qingyang Wang (Undergraduate student, Rutgers University)

SERVICE

Organizing and Chairing Activities

- 1st ASIS&T SIG AI research symposium, Organizer
- CHIIR 2023 IWILDS Workshop, Co-Organizer
- SIGIR 2022 IWILDS Workshop, Co-Organizer
- ASIS&T SIG AI Chair 2022-2023
- SIGIR 2021 Registration Chair
- CIKM 2021 IWILDS Workshop, Co-Organizer
- iConference 2021 Workshop, Co-Chair

- ASIS&T Research Engagement Committee Member 2020-2021
- ASIS&T 2020 SIG USE Symposium Co-Chair
- ASIS&T SIG USE Communications Officer 2017-2019

Grant Review Services

- Institute of Museum and Library Services (IMLS) Reviewer 2022
- National Science Foundation (NSF) Reviewer 2021, 2024

Editorial Services

- Associate Editor, ACM Transactions on Information Systems (TOIS)
- Guest Editor, AI in Education: Transforming teaching and learning, Special Issue in Information and Learning Sciences
- Editorial Board Member, Aslib Journal of Information Management
- Editorial Board Member, The Electronic Library

Journal Reviewer

- International Journal of Human-Computer Studies
- Computers in Human Behavior
- Journal of Information Science
- ACM Transactions on Information Systems (TOIS)
- Aslib Journal of Information Management
- Library and Information Science Research
- Journal of the Association for Information Science and Technology (Selected as top peer reviewer for JASIST, 2021)
- Information Processing and Management
- Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies

Program Committee

- ACM CIKM (2024)
- ACM SIGKDD (2022)
- WSDM (2022, 2023, 2024, 2025)
- ACM SIGIR (2021, 2022, 2023, 2024, 2025)
- ECIR (2024)
- Senior Member, SIGIR Artifact Evaluation Committee (AEC) 2021-
- ACM CHIIR (2020, 2021, 2022, 2023, 2024)
- ASIS&T Annual Meeting (2018, 2019, 2020, 2021, 2022)
- iConference (2020)

Service to University of Oklahoma

- Student Scholarships and Awards Committee, OU DFCAS (2021-2023)
- Technology Advisory Board (2023-2024)
- Accreditation Committee (2023-2024)
- Strategic Planning Committee, OU SLIS (2021-2023)
- Faculty Search Committee, OU SLIS (2021-2022)
- Doctoral Program Committee, OU SLIS (2020-2021; 2023-2024)
- Undergraduate Studies Committee, OU SLIS (2020-2024)
- Research Liaison, OU SLIS (2020-2021)

Updated January 2025