

# Haihua Chen, Ph.D.

Assistant Professor, Data Science (Joint Appointment with Health Informatics)

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## Research Interests and Expertise

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- Artificial intelligence: applied machine learning, applied artificial intelligence, large language models
- Data science: applied data science, text mining, innovation measurement, social media analysis
- Data quality: data quality evaluation and improvement in machine learning, data centric AI
- Natural language processing: information retrieval, recommendation system, legal NLP
- Informatics: health informatics, legal informatics

## Education

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2017 – 2021	<b>University of North Texas</b> Ph.D. in Information Science concentrated on Data Science (Advisors: Dr. Jiangping Chen & Dr. Junhua Ding) Dissertation Title: Data Quality Evaluation and Improvement for Machine Learning Honor: Great Graduates
2014 – 2017	<b>Wuhan University</b> M.S. in Information Science (Advisor: Dr. Wei Lu) Honor: Fellowship for Graduate Students
2010 – 2014	<b>Central China Normal University</b> B.S. in Information Science & B.S. in English Literature Honor: Honor Graduates

## Professional Experience

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08/2023-present	<b>Assistant Professor (Tenure-track)</b> , University of North Texas
01/2022-07/2023	<b>Clinical Assistant Professor</b> , University of North Texas
01/2019-01/2022	<b>Research Assistant &amp; Teaching Fellow</b> , University of North Texas
05/2018-01/2022	<b>Lab Manager</b> , Intelligent Information Access Lab, University of North Texas
10/2020-08/2021	<b>Vice President</b> , Data Science Organization, University of North Texas
01/2018-01/2020	<b>Officer</b> , International Graduate Students Research Organization, University of North Texas
09/2017-01/2019	<b>Research Assistant &amp; Teaching Assistant</b> , University of North Texas

## Publications

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(\*) indicates the corresponding author. (#) indicates student supervised at UNT. IF = Impact Factor. Journal ranking is based on Journal Citation Report (JCR) 2023.

### Articles In-progress

- [1] *TBD* **Chen, H.**, Ding, J., A comprehensive survey on legal artificial intelligence: tasks, datasets, techniques, and future directions.
- [2] *ACM Computing Surveys* Tran, N.#, **Chen, H.**, & Cleveland, A. Disaster Informatics after COVID-19 Pandemic: Topics, Themes, and Future Direction. *International Journal of Disaster Risk Reduction*. (JCR Q1)
- [3] *JOCCH* Sakata, A.# & **Chen, H.\***. JAIOH-Semantic: A High-quality Corpus for Understanding Japanese American Incarceration Oral History with NLP and Machine Learning. *Journal on Computing and Cultural Heritage*. (JCR Q3)

### Articles Under Review

- [1] *Electronics* Kargozari, K.#, Ding, J., **Chen, H.** Empowering Consumer Decision: Decoding Incentive vs. Organic Reviews for Smarter Choices Through Advanced Textual Analysis. *Electronics*. Under review. (JCR Q2)
- [2] *JBI* **Chen, H.\***, Li, R., Cleveland, A., & Ding, J. Enhancing Data Quality in Medical Concept Normalization through Large Language Models. *Journal of Biomedical Informatics*. Under review. (JCR Q1).
- [3] *Knowledge-Based Systems* **Chen, H.\***, Illa, A.#, Li, R., Cleveland, A., & Ding, J. A Survey on Medical Concept Normalization: From Shallow to Deep Learning. *Knowledge-Based Systems*. Under review. (JCR Q1)
- [4] *Scientific Data* Zhang L., Jiang, C., Sun, M., Cheng, X., **Chen, H.\***, & Lu, W\*. LSD: A Unified Framework of Linked Scholarly Databases for Data Fusion and Scientific Discovery. *Scientific Data*. Under review. (JCR Q1).
- [5] *JOI* Zhang, Y., Wang, Y., Sheng Q., **Chen, H.**, et al. Deep Learning Meets Bibliometrics: A Survey on Citation Function Classification. *Journal of Informetrics*. Under review. (JCR Q1)
- [6] *IP&M* Wang, Z., Wang, N., Wang, Z., Ding, J., & **Chen, H.\***. IBID-CCT: A Novel Model for Interdisciplinary Breakthrough Innovation Detection based on Cusp Catastrophe Theory. *Information Processing & Management*. Under review. (JCR Q1)

### Books, Book Chapters

- [B3] Sha, K., Cherukuri, K., & **Chen, H.** Privacy and Bias in Edge Computing. In *Textbook Edge Computing: Systems and Applications*, in press. 2024.
- [B2] **Chen, H.**, Sha, K., Zhou, Y., & Tu, F. Data Quality: Models, Measures, and Tools. In *Springer Handbook of Data Engineering*, in press. 2024.
- [B1] Lund, B., Agbaji, D., Bissadu, K., & **Chen, H.** Python for Information Professionals: How to Design Practical Applications to Capitalize on the Data Explosion. Rowman & Littlefield Publishers. November 15, 2023. ISBN-10: 1538178257. ISBN-13: 978-1538178256.

### Refereed Journal Articles

- [J27] *JOI* Wang, Z., Zhang, H., Chen, J., & **Chen, H.\***. An Effective Framework for Measuring the Novelty of Scientific Articles through Integrated Topic Modeling and Cloud Model. *Journal of Informetrics*. In press. IF = 3.7. (18/258 in Library and Information Sciences, JCR Q1)
- [J26] *EIT* Tu, F.#, Wu, L., Kinshuk, Ding, J., & **Chen, H.\***. Exploring the influence of regulated learning processes on learners' prestige in project-based learning. *Education and Information Technologies*, 1-31. Under review. IF = 5.5. (19/258 in Library and Information Sciences, JCR Q1)
- [J25] *Electronics* Zhao, H., **Chen, H.**, Ruggles, T. A., Feng, Y., Singh, D., & Yoon, H. J. (2024). Improving Text Classification with Large Language Model-Based Data Augmentation. *Electronics*, 13(13), 2535. IF = 2.9. (138/373 in Computer Networks and Communications, JCR Q2)

- [J24] *JKSU-CIS* Wang, Z., Zhang, H., **Chen, H.\***, Feng, Y., Ding, J. Content-based Quality Evaluation of Scientific Papers using Coarse Feature and Knowledge Entity Network. *Journal of King Saud University - Computer and Information Sciences*. Under review, 36(6), 102119. IF = 6.9. (55/326 in Computer Science, JCR Q1)
- [J23] *TEL* **Chen, H.\***, Kim, J., Chen, J., & Sakata, A. (2024). Demystifying oral history with natural language processing and data analytics: a case study of the Densho digital collection. *The Electronic Library*, 42(4), 643-663. IF = 2.42. (75/258 in Library and Information Sciences, JCR Q2)
- [J22] *TEL* Wang, Z., Qiao, X., Chen, J., Li, L., Zhang, H., Ding, J., & **Chen, H.\***. (2024). Exploring and evaluating the index for interdisciplinary breakthrough innovation detection. *The Electronic Library*, (ahead-of-print). IF = 2.42. (75/258 in Library and Information Sciences, JCR Q2)
- [J21] *ACM Computing Surveys* Huang, J., **Chen, H.**, Yu, F., & Lu, W. From Detection to Application: Recent Advances in Understanding Scientific Tables and Figures. *ACM Computing Surveys*. IF = 16.6. (4/326 in Computer Science, JCR Q1)
- [J20] *Electronics* Ge, J., Xu, G., Lu, J., Zhang, Y., **Chen, H.**, & Meng, X. (2023). Joint optimization of computation, communication and caching in D2D-assisted Caching-enhanced MEC System. *Electronics*, 12(15), 3249. IF = 2.9. (138/373 in Computer Networks and Communications, JCR Q2)
- [J19] *SCM* Wang, Z., Chen, J., Chen, J., & **Chen, H.\***. (2023). Identifying interdisciplinary topics and their evolution based on BERTopic. *Scientometrics*, 1-26. IF = 3.801. (26/258 in Library and Information Sciences, JCR Q1)
- [J18] *Knowledge-Based Systems* Wang, Z., Peng, S., Chen, J., Zhang, X., & **Chen, H.\***. (2023). ICAD-MI: Interdisciplinary concept association discovery from the perspective of metaphor interpretation. *Knowledge-Based Systems*. 110695. IF = 8.8. (29/284 in Artificial Intelligence, JCR Q1)
- [J17] *JKSU-CIS* Wang, Z., Peng, S., Huang, J., Chen, J., & **Chen, H.\***. (2023). ICDIA-NCM: A Framework for Interdisciplinary Concept Drift Identification and Analysis based on the Normal Cloud Model. *Journal of King Saud University - Computer and Information Sciences*. 101569. IF = 6.9. (55/326 in Computer Science, JCR Q1)
- [J16] *IDD* Nguyen, H.#, **Chen, H.**, Chen, J., Kargozari, K., & Ding, J. (2023). Construction and Evaluation of a Domain-Specific Knowledge Graph for Knowledge Discovery. *Information Discovery & Delivery*. IF = 2.245. (71/258 in Library and Information Sciences, JCR Q2)
- [J15] *IEEE Access* Tran, N.#, **Chen, H.**, Bhuyan, J., & Ding, J. (2022). Data Curation and Quality Evaluation for Machine Learning-Based Cyber Intrusion Detection. *IEEE Access*. IF = 3.9. (54/326 in Computer Science, JCR Q1)
- [J14] *JBI* Zhang, L., Lu, W., **Chen, H.**, Huang, Y., & Cheng, Q. (2022). A comparative evaluation of biomedical similar article recommendation. *Journal of Biomedical Informatics*, 104106. IF = 8.0. (26/115 in Health Informatics, JCR Q1)
- [J13] *IEEE TR* **Chen, H.**, Pieptea, L. F.#, & Ding, J. (2022). Construction and Evaluation of a High-Quality Corpus for Legal Intelligence Using Semiautomated Approaches. *IEEE Transactions on Reliability*, 71(2), 657-673. IF = 5.9. (15/189 in Safety, Risk, Reliability and Quality, JCR Q1)
- [J12] *IP&M* **Chen, H.**, Wu, L., Chen, J., Lu, W., & Ding, J. (2022). A comparative study of automated legal text classification using random forests and deep learning. *Information Processing & Management*, 59(2), 102798. IF = 8.6. (8/258 in Library and Information Sciences, JCR Q1, received 120 citations)
- [J11] *SCM* **Chen, H.\***, Nguyen, H.#, & Alghamdi, A.# (2022). Constructing a high-quality dataset for automated creation of summaries of fundamental contributions of research articles. *Scientometrics*, 1-15. IF = 3.801. (26/258 in Library and Information Sciences, JCR Q1)
- [J10] *SCM* Wang, Z., Wang, K., Liu, J., Huang, J., & **Chen, H.\*** (2022). Measuring the innovation of method knowledge elements in scientific literature. *Scientometrics*, 127(5), 2803-2827. IF = 3.801. (26/258 in Library and Information Sciences, JCR Q1)

- [J9] *SCM* Zhang, Y., Zhao, R., Wang, Y., **Chen, H.**, Mahmood, A., Zaib, M., ... & Sheng, Q. Z. (2022). Towards employing native information in citation function classification. *Scientometrics*, 1-21. IF = 3.801. (26/258 in Library and Information Sciences, JCR Q1)
- [J8] *IEEE TR* **Chen, H.**, Chen, J., & Ding, J. (2021). Data evaluation and enhancement for quality improvement of machine learning. *IEEE Transactions on Reliability*, 70(2), 831-847. IF = 5.9. (15/189 in Safety, Risk, Reliability and Quality, JCR Q1, received 60 citations)
- [J7] *IJPE* Tran, N.#, **Chen, H.\***, Jiang, J., Bhuyan, J., & Ding, J. (2021). Effect of Class Imbalance on the Performance of Machine Learning-based Network Intrusion Detection. *International Journal of Performability Engineering*, 17(9). IF = 1.14
- [J6] *JDIS* **Chen, H.\*** (2021). A New Citation Recommendation Strategy Based on Term Functions in Related Studies Section. *Journal of Data and Information Science*, 6(3), 75-98. IF = 1.889. (88/258 in Library and Information Sciences, JCR Q2)
- [J5] *JMLA* **Chen, H.**, Chen, J., & Nguyen, H.# (2021). Demystifying COVID-19 publications: institutions, journals, concepts, and topics. *Journal of the Medical Library Association: JMLA*, 109(3), 395. IF = 3.18 (47/115 in Health Informatics, JCR Q2)
- [J3] *TEL* **Chen, H.\***, Yang, Y., Lu, W., & Chen, J. (2020). Exploring multiple diversification strategies for academic citation contexts recommendation. *The Electronic Library*, 38(4), 821-842. IF = 2.42. (75/258 in Library and Information Sciences, JCR Q2)
- [J3] *TEL* Tang, M., Chen, J., **Chen, H.**, Xu, Z., Wang, Y., Xie, M., & Lin, J. (2020). An ontology-improved vector space model for semantic retrieval. *The Electronic Library*, 38(5/6), 919-942. IF = 2.42. (75/258 in Library and Information Sciences, JCR Q2)
- [J2] *Information Sciences* Lu, W., Luo, M., Zhang, Z., Zhang, G., Ding, H., **Chen, H.**, & Chen, J. (2019). Result diversification in image retrieval based on semantic distance. *Information Sciences*, 502, 59-75. IF = 8.1. (23/284 in Artificial Intelligence, JCR Q1, received 12 citations)
- [J1] *IDD* Zhang, Z., **Chen, H.\***, & Xiao, B. (2019). Understanding eWOM of Chinese Governments information service: a perceived value-based perspective. *Information Discovery & Delivery*, 47(4), 251-258. IF = 2.245. (71/258 in Library and Information Sciences, JCR Q2)

## Refereed Conference Papers

- [C21] *JCDL'24* Zhang, L., Wu, K., Cheng, X., Wang, J., & **Chen, H.\*** (2024). LSD: An Effective Method for Improving Quality of Scholarly Databases (Short paper). ACM/IEEE Joint Conference on Digital Libraries (JCDL) 2024, under review. ACM.
- [C20] *JCDL'24* Ying, D., Yu, F., **Chen, H.**, & Lu, W. (2024). Fine-Grained, Accurate Data Generation and Multimodal Layout Analysis for Academic Papers (Long paper). ACM/IEEE Joint Conference on Digital Libraries (JCDL) 2024, under review. ACM.
- [C19] *EMNLP'24* Nguyen, H., **Chen, H.**, Pobbathi, L., & Ding, J. (2024). A Comparative Study of Quality Evaluation Methods for Text Summarization (Long paper). The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024), under review. ACM.
- [C18] *ACM MM'24* Ying, D., Yu, F., **Chen, H.**, & Lu, W. (2024). DIG: Complex Layout Document Image Generation with Authentic-looking Text for Enhancing Layout Analysis (Long paper). In Proceedings of the 32nd ACM International Conference on Multimedia (ACM Multimedia 2024), in press. ACM.
- [C17] *IEEE AITest'24* Zhou, Y., Tu, F., Sha, K., Ding, J., & **Chen, H.\*** (2024). A Survey on Data Quality Dimensions and Tools for Machine Learning (Invited paper). In Proceedings of the 2024 IEEE International Conference on Artificial Intelligence Testing (AITest 2024), in press. IEEE.
- [C16] *IEEE AITest'24* Ding, J., Nguyen, H., & **Chen, H.** (2024). Evaluation of Question-Answering Based Text Summarization using LLM (Invited paper). In Proceedings of the 2024 IEEE International Conference on Artificial Intelligence Testing (AITest 2024), in press. IEEE.
- [C15] *ASIS&T'24* **Chen, H.\***, Cherukuri, K.#, Zhu, X., & Yang, S. Are Prompts All You Need?: Chatting with ChatGPT on Disinformation Policy Understanding (Short paper). In proceedings of the 87th

- Annual Meeting of the American Society for Information, Science & Technology (ASIS&T 2024). In press. Location and date: Calgary, Canada, October 25-29, 2024.
- [C14] *IEEE QRS'23* Ding, J., **Chen, H.**, Kolapudi, S., Pobbathi, L., & Nguyen, H. Quality Evaluation of Summarization Models for Patent Documents (Short paper). In 2023 IEEE 23rd International Conference on Software Quality, Reliability, and Security (QRS) (pp. 250-259). IEEE. Location and date: Chiang Mai, Thailand, October 22-26, 2023
- [C13] *IEEE AITest'23* Nguyen, H.#, **Chen, H.\***, Maganti, R.#, Hossain, T., & Ding, J. Identifying High-quality Informative Comments for Software Review Summarization (Short paper). *The 5th IEEE International Conference on Artificial Intelligence Testing*. In 2023 IEEE International Conference on Artificial Intelligence Testing (AITest) (pp. 146-151). IEEE. Location and date: Athens, Greece, July 17-20, 2023 (Acceptance rate 60%)
- [C12] *IEEE AITest'23*  Zhao, H., **Chen, H.**, & Yoon, H. Enhancing Text Classification Models with Generative AI-aided Data Augmentation (Regular paper). *The 5th IEEE International Conference on Artificial Intelligence Testing*. In 2023 IEEE International Conference on Artificial Intelligence Testing (AITest) (pp. 138-145). IEEE. (**Best Student Paper Award**). Location and date: Athens, Greece, July 17-20, 2023 (Acceptance rate 40%, 1/16 selected as the best student paper award)
- [C11] *IEEE AITest'23*  Kargozari, K.#, Ding, J., **Chen, H.\***. Evaluating the Impact of Incentive/Non-incentive Reviews on Customer Decision-making (Regular paper). *The 5th IEEE International Conference on Artificial Intelligence Testing*. In 2023 IEEE International Conference on Artificial Intelligence Testing (AITest) (pp. 160-168). IEEE. (**Best Paper Award**). Location and date: Athens, Greece, July 17-20, 2023 (Acceptance rate 40%, 1/16 selected as the best paper award)
- [C10] *IEEE COMPSAC'23*  Feng, Y., Vanam, S., Cherukupally, M., Zheng, W., Qiu, M., & **Chen, H.** Investigating Code Generation Performance of ChatGPT with Crowdsourcing Social Data (Regular paper). In *Proceedings of the 47th IEEE Computer Software and Applications Conference* (pp. 1-10). (**Best Paper Award Nominate under the SETA Track**). Location and date: Torino, Italy, June 26-30, 2023 (Acceptance rate 24%, received 70 citations)
- [C9] *iConference'23* Nguyen, H.#, Oladapo, L., Ali, I., **Chen, H.**, & Chen, J. Fighting Misinformation: Where Are We and Where to Go? In *International Conference on Information* (pp. 371-394). Springer, Cham. Location and date: Barcelona, Spain, March 27-29, 2023 (Acceptance rate 36%)
- [C8] *ISSI'21* **Chen, H.\***, & Kanuboddu, B. N.# (2021). A fine-grained annotation scheme for research contribution in academic literature. In *Proceedings of the 18th International Conference on Scientometrics and Informetrics* (pp. 241-248). Online (Among 48/300 selected for journal publishing)
- [C7] *ASIS&T'21* Chong, M., & **Chen, H.\*** (2021). Racist Framing through Stigmatized Naming: A Topical and Geo-locational Analysis of# Chinavirus and# Chinesevirus on Twitter. In *Proceedings of the association for information science and technology*, 58(1), 70-79. Location and date: Salt Lake City, UT, USA, October 30 - November 2, 2021 (Acceptance rate 49%, 12 citations)
- [C6] *IEEE QRS'20*  **Chen, H.**, Chen, J., & Ding, J. (2020). Data Evaluation and Enhancement for Quality Improvement of Machine Learning. *2020 IEEE 20th International Conference on Software Quality, Reliability and Security (QRS)*, 13-13. (**Best Paper Award Nominate**). Online (Acceptance rate 28.8%, and among 6/36 accepted regular papers selected for journal publishing)
- [C5] *CCKS'19* **Chen, H.**, Cao, G., Chen, J., & Ding, J. (2019, August). A practical framework for evaluating the quality of knowledge graph. In *China conference on knowledge graph and semantic computing* (pp. 111-122). Springer, Singapore. Location and date: Hangzhou, China, August 24-27, 2019 (Among 18/140 selected for conference proceedings publishing, received 36 citations)
- [C4] *IEEE BIBE'18* Ding, J., Jin, W., & **Chen, H.** (2018, October). Regression-Based Documents Reranking for Precision Medicine. In *2018 IEEE 18th International Conference on Bioinformatics and Bioengineering (BIBE)* (pp. 283-286). IEEE. Location and date: Taichung, Taiwan, October 29-31, 2018 (Acceptance rate 30%)
- [C3] *ICSH'18* **Chen, H.**, Ding, J., Chen, J., & Cao, G. (2018, July). Designing a novel framework for precision medicine information retrieval. In *International Conference on Smart Health* (pp. 167-178).

- Springer, Cham. Location and date: Wuhan, China, July 1-3, 2018 (Among 14/49 selected for conference proceedings publishing)
- [C2] *ICSH'18* Chen, J., Chen, M., Qu, J., **Chen, H.**, & Ding, J. (2018, July). Smart and connected health projects: Characteristics and research challenges. In *International Conference on Smart Health* (pp. 154-164). Springer, Cham. Location and date: Wuhan, China, July 1-3, 2018 (Among 14/49 selected for conference proceedings publishing)
- [C1] *ICKM'17* Zhang, Q., Lu, W., Yang, Y., **Chen, H.**, & Chen, J. (2017). Automatic identification of research articles containing data usage statements. In *Knowledge Discovery and Data Design Innovation: Proceedings of the International Conference on Knowledge Management (ICKM 2017)* (pp. 67-87). Location and date: Dallas, TX, USA, October 25 - 27, 2017

## Editorials

- [E2] *TEL* Wang, Z., **Chen, H.\***, Zhang, C., Lu, W., & Wu, J. (2024). Innovation Measurement for Scientific Communication (IMSC) in the Era of Big Data. *The Electronic Library*, in press.
- [E1] *Electronics* Ding, J., **Chen, H.\***, Feng, Y., & Hossain, T. (2024). Applications of Deep Learning Techniques. *Electronics*, 13(17), 3354.

## Workshops, Panels, Posters, Tutorials, Abstracts, Blogs

- [W23] *JCDL'24* Lu, W., Huang, J., Yu, F., & **Chen, H.** (2024, December). JCDL 2024 Tutorial on Academic Table and Figure Understanding for Digital Library (Tutorial). In *2024 ACM/IEEE Joint Conference on Digital Libraries (JCDL)*, in press. IEEE. Location and date: Hong Kong, December 16 - 20, 2024
- [W22] *JCDL'24* Wang, Z., **Chen, H.\***, Zhang, C., Bu, Y., Lu, W., & Wu, J. (2024, December). JCDL2024Workshop: The 2nd Workshop on Innovation Measurement for Scientific Communication (IMSC) in the Era of Big Data (Workshop proposal). In *2024 ACM/IEEE Joint Conference on Digital Libraries (JCDL)*, in press. IEEE. Location and date: Hong Kong, December 16 - 20, 2024
- [W21] *JCDL'24* **Chen, H.\***, Kim, J., Wang, X., Yang, L., & Fremery, W. (2024, December). JCDL2024 Workshop: Utilizing AI/ML to Enhance Information Extraction, Organization, and Retrieval from Large-scale Archival Collections (Workshop proposal). In *2024 ACM/IEEE Joint Conference on Digital Libraries (JCDL)*, in press. IEEE. Location and date: Hong Kong, December 16 - 20, 2024
- [W20] *ASIS&T'24* Cherukuri, K#, **Chen, H.\*** Investigating the Applications of AI in Oncology from NIH Funded Projects: Case study of Lung Cancer and Pancreatic Cancer (Poster). In proceedings of the 87th Annual Meeting of the American Society for Information, Science & Technology (ASIS&T 2024). In press. Location and date: Calgary, Canada, October 25-29, 2024.
- [W19] *ASIS&T'24* Kim, J., **Chen, H.**, Yang, L., & Simic, J. Exploring the Application of Artificial Intelligence and Machine Learning in GLAM Collections (Panel). In proceedings of the 87th Annual Meeting of the American Society for Information, Science & Technology (ASIS&T 2024). In press. Location and date: Calgary, Canada, October 25-29, 2024.
- [W18] *DGO'24* Zhang, X., Chong, M., Hagen, L., & **Chen, H.\*** A Framework for Assessing Country Reputation: Case Study of China during the COVID-19 Pandemic (Poster). DGO '24: Proceedings of the 25th Annual International Conference on Digital Government Research (pp. 1008-1010). ACM. Location and date: Taipei, Taiwan, June 11-14, 2024
- [W17] *SCC 2023* Tran, N.#, **Chen, H.**, & Cleveland, A. D. Unveiling Key Research Themes in Disaster Informatics Amidst the Pandemic (Abstract + Oral presentation). *2023 South Central Chapter of the Medical Library Association (SCC/MLA)*. In press. Location and date: New Orleans, USA, September 21-26, 2023
- [W16] *SCC 2023* Tran, N.#, Cleveland, A. D., & **Chen, H.** Exploring the Shift in Disaster Informatics Research After the Pandemic (Abstract + Oral presentation). *2023 South Central Chapter of the Medical Library Association (SCC/MLA)*. In press. Location and date: New Orleans, USA, September 21-26, 2023

- [W15] SCC 2023 Cleveland, A. D., & Chen, H. Dental Informatics over time: A 20-years longitudinal bibliometrics analysis (Abstract + Oral presentation). *2023 South Central Chapter of the Medical Library Association (SCC/MLA)*. In press. Location and date: New Orleans, USA, September 21-26, 2023
- [W14] JCDL 2023 Wang, Z., Chen, H.\*, Zhang, C., Lu, W., & Wu, J. (2023, June). JCDL2023 Workshop: Innovation Measurement for Scientific Communication (IMSC) in the Era of Big Data (Workshop proposal). *In 2023 ACM/IEEE Joint Conference on Digital Libraries (JCDL)* (pp. 303-305). IEEE. Location and date: Santa Fe, NM, USA, June 26 - 30, 2023
- [W13] JCDL 2023 Zhang, C., Zhang, Y., Mayr, P., Lu, W., Suominen, A., Chen, H., & Ding, Y. (2023, June). JCDL2023 Workshop: Joint Workshop of the 4th Extraction and Evaluation of Knowledge Entities from Scientific Documents (EEKE2023) and the 3rd AI+ Informetrics (AII2023) (Workshop proposal). *In 2023 ACM/IEEE Joint Conference on Digital Libraries (JCDL)* (pp. 306-307). IEEE. Location and date: Santa Fe, NM, USA, June 26 - 30, 2023
- [W12] AEJMC Midwinter Conference 2023 Zhang, X., & Chen, H.\*. Assessing the Change of Country Reputation during the COVID-19 Pandemic Period on Twitter: A Case Study of China (Abstract + Oral presentation). *The Association for Education in Journalism and Mass Communication Midwinter Conference 2023*. Location and date: Norman, OK, USA, February 24-25, 2023
- [W11] Information Matters Chen, H. (2022, September 23). Why does data quality matter? How to evaluate and improve data quality for machine learning systems (Blog). *Information Matters*, 2(9).
- [W10] EEKE@JCDL'22 Wang, Z., Chen, J., Chen, J., & Chen, H.\* (2022). Interdisciplinary Topics Extraction and Evolution Analysis (Workshop paper). *In Proceedings of 3rd Workshop on Extraction and Evaluation of Knowledge Entities from Scientific Documents (EEKE2022)*, June 20-24, 2022, Cologne, Germany and Online.
- [W9] ASIS&T'22 Han, Y., Maganti, R.#, Chen, J., & Chen, H.\* (2022). Uncover Marginalized Narratives of Japanese American Incarceration: An Annotation Scheme for Natural Language Processing and Data Analytics (Poster). *Proceedings of the Association for Information Science and Technology*, 59(1), 698-700. Location and date: Pittsburgh, PA, USA, October 29-November 1, 2022
- [W8] ASIS&T'21 You, J.#, Shaik, N.#, & Chen, H.\* (2021). Data Mining on COVID - 19 Vaccines: Side Effects (Poster). *Proceedings of the Association for Information Science and Technology*, 58(1), 869-871. Location and date: Salt Lake City, UT, USA, October 30 - November 2, 2021
- [W7] TREC'21 Nguyen, H.#, Chen, H., Prasad, B., Zhao, H., Ding, J., Chen, J., & Cleveland, A. (2021). UNTIIA Lab at TREC 2021 - Clinical Trial. *In TREC*. Online
- [W6] IEEE Big Data'20 Tang, M., Su, C., Chen, H., Qu, J., & Ding, J. (2020, December). SALKG: A Semantic Annotation System for Building a High-quality Legal Knowledge Graph (Workshop paper). *In 2020 IEEE International Conference on Big Data (Big Data)* (pp. 2153-2159). IEEE. Online
- [W5] ASIS&T'20 Tang, M., Chen, J., & Chen, H. (2020). Smart bookshelf for library book management (Poster). *Proceedings of the Association for Information Science and Technology*, 57(1), e396. Online
- [W4] IEEE QRS'20 Luo, M., Yu, F., & Chen, H.\* (2020, December). Result Diversification in Clinical Case Reports Retrieval based on Main Finding (Workshop paper). *In 2020 IEEE 20th International Conference on Software Quality, Reliability and Security Companion (QRS-C)* (pp. 213-220). IEEE. Online
- [W3] IEEE QRS'20 Tang, M., Chen, J., & Chen, H. (2020, December). SemOIR: an ontology-based semantic information retrieval system (Workshop paper). *In 2020 IEEE 20th International Conference on Software Quality, Reliability and Security Companion (QRS-C)* (pp. 204-208). IEEE. Online
- [W2] JCDL'18 Yang, Y., Chen, H.\*, Lu, W., & Ayala, B. R. (2018, May). Diversifying citation contexts in academic literature for knowledge recommendation (Poster). *In Proceedings of the 18th ACM/IEEE on Joint Conference on Digital Libraries* (pp. 397-398). Location and date: Fort Worth, TX, USA, June 3 - 6, 2018
- [W1] TREC'17 Viswavarapu, L. K., Chen, J., Cleveland, A. D., & Chen, H. (2017). UNT Precision Medicine Information Retrieval at TREC 2017. *In TREC*. Location and date: Gaithersburg, MD, USA, November 15--17, 2017

# Research Grants and Proposals

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## External grants under review or in preparation:

- PI. NEH “Utilizing AI/ML to Enhance Public Engagement with Historical Records: Model Development, Best Practices, and Educational Training”, National Endowment for the Humanities. In preparation.
- Co-PI (PI: Dr. Kewei Sha). NSF Expanding AI Innovation through Capacity Building and Partnerships (ExpandAI) “PARTNER: Expanding Edge AI for Next Generation Connected Autonomous Systems”, National Science Foundation. In preparation.
- Co-PI (PI: Dr. Junhua Ding). NSF Research Experience for Teachers (RET) Site “Machine Learning and Data Analytics with Large Language Models”. Request: \$599,544. Pending.
- Co-PI (PI: Dr. Junhua Ding). NSF RITEL “AI Mastery: Goal-Driven Learning Enhanced with Real-time Performance Analysis for Mastering AI Fundamentals and Practices”, National Science Foundation. Request: \$899,757. Pending.
- Senior Personal (PI: Dr. Yunhe Feng). NSF REU Site “Aligning Artificial Intelligence with Human Values”, National Science Foundation. Request: \$456,540. Pending.

## External funded grants:

- 2023-2025. **Senior Personnel** (PI: Dr. Ting Xiao). NSF REU Site “Beyond Language: Training to Create and Share Vector Embeddings across Applications”, National Science Foundation. Amount: \$403,547.
- 2022-2025. **Co-PI** (PI: Dr. Junhua Ding). NSF HSI Implementation and Evaluation Project “Developing a High-Quality Academic Environment for Broadening Participation of Hispanic Students in Computing”, National Science Foundation. Award Amount: \$499,608.
- 2021. PI. Google Cloud Research Credits for project “Building a knowledge-driven Legal IR, Automatic Evidence and Argument Generation System for Decision Making”, Google. Award Amount: \$5,000.
- 2021. PI. Google Cloud Education Grant - google cloud platform credits for course “INFO 5731: Computational Methods for Information Systems”. Google. Award Amount: \$1,550.
- 2020. PI. Google Cloud COVID-19 Research Credits Program - google cloud platform credits for project “Demystifying COVID-19 publications”. Award Amount: \$13,800.
- 2020. PI. Google Cloud Education Grant - google cloud platform credits for course “INFO 5731: Computational Methods for Information Systems”. Award Amount: \$2,800.
- 2019. PI. Google Cloud Education Grant - google cloud platform credits for course “INFO 4206: Information Retrieval”. Award Amount: \$5,000.

## External not funded grants:

- 2024. Co-PI (PI: Dr. Junhua Ding). NSF Research Traineeship (NRT) Program “NRT-AI: Train Next-Generation Scientists and Engineers in Data-Centric Intelligence”. Request: \$3,000,000. Not funded.
- 2023. PI. NIH AIM-AHEAD “Utilizing AI/ML to Enhance Personalized Health Information Services for Hispanic Populations during Disaster Recovery”. Amount requested: \$99,991. Not funded.
- 2023. Co-PI (PI: Dr. Sharad Sharma). NSF Build and Broaden (B2) “Collaborative Research: Build and Broaden: Building Research Capacity in Health Informatics Research Partnerships”, National Science Foundation. Not funded.
- 2023. Co-PI (PI: Dr. Sharad Sharma). NSF I/UCRC Planning Grant “Center for Emerging System Dependability Assurance (CESDA)”, National Science Foundation. Not funded.

## Internal funds:

- 2024. PI. UNT COI Seed Funding “Utilizing AI/ML to Enhance Personalized Health Information Services for Hispanic Populations during Disaster Recovery”, College of Information, University of North Texas. Award Amount: \$5,000.
- 2023. PI. UNT VPRI Intramural Research Seed Grant (RSG) “Utilizing AI/ML to Enhance Personalized Health Information Services for Hispanic Populations during Disaster Recovery”. Request: \$10,000. Not funded.
- 2022. Co-PI (PI: Dr. Xiaoqun Zhang). The UNT VPRI Intramural Research Seed Grant (RSG) “Assessing Country Reputation during the COVID-19 Pandemic Period on Twitter: A Case Study of China”. Request: \$10,000. Not funded.



- 2022. PI. UNT COI Seed Funding *"Towards a large-scale and high-quality corpus for legal argument mining"*, College of Information, University of North Texas. Award Amount: \$9,975.
- 2020. PI. UNT Graduate Student Research Award. Award Amount: \$800.

## Travel Fundings

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- 2024. UNT Department of Information Science Travel Grant (MLA 2024). Award Amount: \$2,200.
- 2023. UNT College of Information and Department of Information Science (SCC 2023). Award Amount: \$2,000.
- 2023. UNT Department of Information Science Travel Grant (JCDL 2023). Award Amount: \$2,000.
- 2022. UNT Department of Information Science Travel Grant (ASIS&T 2022). Award Amount: \$1,000.
- 2022. UNT Department of Information Science Travel Grant (IEEE CISOSE 2022). Award Amount: \$1,200.
- 2021. UNT Travel Grant (ASIS&T 2021). Award Amount: \$500.
- 2021. UNT Department of Information Science Travel Grant (ASIS&T 2021). Award Amount: \$1,000.
- 2021. UNT Department of Information Science Travel Grant (TREC 2021). Award Amount: \$35.
- 2021. The International Society for Scientometrics and Informetrics (ISSI) Student Travel Award. Award Amount: €115.
- 2020. UNT Department of Information Science Travel Grant (IEEE QRS 2020). Award Amount: \$1,500.
- 2019. UNT Department of Information Science Travel Grant (WWW 2019). Award Amount: \$600.
- 2018. UNT Travel Grant (TREC 2018). Award Amount: \$1,200.
- 2018. UNT Department of Information Science Travel Grant (ALA 2018). Award Amount: \$800.
- 2018. UNT Department of Information Science Travel Grant (IEEE/ACM JCDL 2018). Award Amount: \$1,000.
- 2017. UNT Department of Information Science Travel Grant (ICKM 2017). Award Amount: \$300.

## Honors and Awards

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- 2022. Great Grads Spring 2022, College of Information, University of North Texas.
- 2021 - 2022. UNT COVID-19 Student Success Award (Spring 2022, Summer 2021, Fall 2021), University of North Texas. Award Amount: \$1,500.
- 2021. UNT Toulouse Graduate School Summer Award, University of North Texas. Award Amount: \$1,605.
- 2021. Linda Schamber Writing Award for paper *"Topic sentiments toward the COVID-19 vaccine on Twitter"*, College of Information, University of North Texas. Award Amount: \$250.
- 2021. The Melba S. Harvill Endowed Scholarship, Department of Information Science, University of North Texas. Award Amount: \$1,000.
- 2020. The Dewey E. Carroll Graduate Fellowship Award, Department of Information Science, University of North Texas. Award Amount: \$4,000.
- 2020. The Donald B. and Ana D. Cleveland Medical Informatics Endowed scholarship, Department of Information Science, University of North Texas. Award Amount: \$1,000.
- 2019. The Mark E. Rorvig Endowed Graduate Fellowship Award, Department of Information Science, University of North Texas. Award Amount: \$4,000.
- 2019. Outstanding Reviewer for The Electronic Library, Emerald.
- 2019. The Donald B. and Ana D. Cleveland Medical Informatics Endowed scholarship, Department of Information Science, University of North Texas. Award Amount: \$1,000.
- 2018. The Howard Griesdorf Interdisciplinary Ph.D. Award, Department of Information Science, University of North Texas. Award Amount: \$1,000.
- 2017. Honor Graduates, Excellent Student Leader Award, Wuhan University.

## Teaching

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### Instructor, University of North Texas

- INFO 5506: Applications of Artificial Intelligence in Health (Spring 2024, 2025)
- INFO 5810: Data Analysis and Knowledge Discovery (Summer 2022, Fall 2022, Spring 2023, Summer 2024)

- INFO 5731: Computational Methods for Information Systems (Spring 2020 – Spring 2025)
- INFO 5502: Analytic Tools, Techniques and Methods (Spring 2022, Summer 2022, Summer 2024)
- INFO 4206: Information Retrieval (Spring 2019)

### **Course Designer and Instructor, University of North Texas**

- INFO 5506: Applications of Artificial Intelligence in Health (Spring 2024)
- CSCE 4290/5290: Introduction to Natural Language Processing (CIB) (Fall 2022)

### **Co-Instructor, University of North Texas**

- INFO 5717: Networked Data Modeling and Processing (Fall 2019)

### **Guest Lecturer, University of North Texas**

- LSCM 3960: Logistics and Supply Chain Management – Topic: The Applications of Machine Learning and Natural Language Processing for Supply Chain Management (Spring 2022)
- INFO 5709: Data Visualization and Communication – Topic: Deep Learning with TensorFlow and Keras (Summer 2020)
- INFO 3020: Introduction to Computation with Python – Topic: Web Scraping with Python (Summer 2020)
- INFO 5707: Data Modeling for Information Professionals – Topic: Construction and Applications of Knowledge Graphs (Fall 2019)
- INFO 5810: Data Analysis and Knowledge Discovery – Topic: Web Scraping with Python (Fall 2019)
- INFO 5501: Fundamentals of Data Analytics – Topic: Introduction to Python Tools and Packages for Data Analysis and Scientific Computing (Spring 2018)

### **Teaching Assistant, University of North Texas**

- INFO 5717: Dynamic WWW Structures (Fall 2018)

## **Student Advising**

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- Current students
  - Haoxuan Zhang, Ph.D. student in Information Science (Fall 2024-Present, as major professor)
  - Yuhan Zhou, Ph.D. student in Information Science (Fall 2024-Present, as major professor)
  - Fengjiao Tu, Ph.D. student in Information Science (Fall 2023-Present, as major professor)
  - Nishith Reddy Mannuru, Ph.D. student in Information Science (Spring 2024-Present, as committee member)
  - Mimi Byun, Ph.D. student in Information Science (Summer 2023-Present, as committee member)
  - Lavinia Florentina, Ph.D. student in Information Science (Fall 2022-Present, as faculty mentor)
  - Natalie Tran, Ph.D. student in Information Science (Spring 2022-Present, as faculty mentor)
  - Huyen T. N. Nguyen, Ph.D. student in Information Science (Summer 2021-Present, as faculty mentor)
  - Kate Kargozari, Ph.D. student in Information Science (Fall 2020-Present, as faculty mentor)
  - Komala Subramanyam Cherukuri, master student in Data Science (Spring 2024-Present)
  - Murthy Aryan, master student in Information Science (Fall 2023-Present)
  - Aisa Sakata, master student in Information Science (Fall 2023-Present)
  - Lavanya Pobbathi, master student in Data Science (Spring 2023-Present)
- Alumni
  - Kaushal Sen, master student in Data Science (Graduated in Spring 2024)
  - Suruthi Selvam, master student in Data Science (Spring 2023-Summer 2023)
  - Kavya Vedantham, master student in Data Science (Summer 2023)
  - Mounica Siri Chandana Tamalampudi, master student in Data Science (Summer 2023)
  - Solomon Daramay, undergraduate in Computer Science at UNT (Under the NSF REU program at UTD, Summer 2023)
  - Aparna Bhooshanan, undergraduate in Computer Science at The University of Alabama (Under the NSF REU program at UNT, Summer 2023)

- Chimara Okeke, undergraduate in Bioinformatics at UNT (Under the NSF REU program at UNT, Summer 2023)
- Ella Ghazarian, undergraduate in Computer Science at UNT (Under the NSF REU program at UNT, Summer 2023)
- Max Jing, undergraduate in Statistics at University of Illinois Urbana-Champaign (Summer 2023)
- Karthik Puppala, master student in Data Science (Spring 2023)
- Amith Reddy Kasarla, master student in Data Science (Graduated in Spring 2023, now working as a Reporting Analyst III at BAL)
- Revathi Bejawada, master student in Data Science (Graduated in Spring 2023, now working as a Software Engineer at Source Infotech Inc)
- Roopesh Maganti, master student in Data Science (Graduated in Spring 2023, now working as a Data Management Engineer with Comcast)
- Bhanu Prasad G, master student in Data Science (Graduated in Spring 2022, now working as a Software Engineer at T-mobile)
- Akshitha Maddi, Master student in Data Science (Graduated in Spring 2021, now working as a Business Analyst at Barclays)
- Sai Supriya Vadla, Master student in Data Science (Graduated in Spring 2021, now working as an Associate Engineer at Continental)
- Nagma Shaik, Master student in Data Science (Graduated in Spring 2021, now working as a Software Engineer III at SiriusXM & Pandora)
- Raheyima Khan, Master student in Data Science (Graduated in Spring 2021, now working as a Market Analyst at Kemper)
- Vinati Gattupalli, Master student in Data Science (Graduated in Spring 2021, now working as a Data Scientist at Bluestem Brands)

## Invited Talk and Presentations

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- Talk Title: Data science for legal intelligence, scientific communication, and informatics: from model construction to data quality, Zhongnan University of Economics and Law (Online), Jun 2, 2023
- Talk Title: Informatics applications in multiple fields: A bibliometrics analysis, Department of Information Science, University of North Texas, Nov 16, 2022
- Talk Title: Measuring the novelty of scientific literature through contribution sentences analysis, Information Processing & Management Conference 2022 (Online), Oct 22, 2022
- Talk Title: Fine-grained semantic analysis for academic data mining and evaluation, National Science Library, University of Chinese Academic of Science (Online), May 31, 2022
- Talk Title: The applications of machine learning and natural language processing in healthcare and medicine, Li Ka Shing Faculty of Medicine, The University of Hong Kong (Online), Mar 3, 2022
- Talk Title: Building high-performance machine learning systems for domain-specific applications, Department of Information Science, University of North Texas, Dec 21, 2021
- Talk Title: Construction and evaluation of high-quality corpus for legal intelligence using semi-automated approaches, Department of Information Science, University of North Texas, Nov 17, 2021
- Talk Title: Building high-performance machine learning systems for domain-specific applications, Sun Yat-Sen University (Online), Oct 24, 2021
- Talk Title: Information retrieval in 40 years: a bibliometric analysis of SIGIR proceedings, Department of Information Science, University of North Texas, Sep 1, 2021
- Talk Title: Information quality improvement and evaluation for building high performance machine learning systems, Department of Information Science, University of North Texas, Oct 7, 2020
- Talk Title: Information quality improvement and evaluation for building high performance machine learning systems, Wuhan University (Online), Jul 9, 2020
- Talk Title: Knowledge graph construction, application and evaluation, Beihua University (Online), May 19, 2020
- Talk Title: Construction and applications of knowledge graphs, Department of Information Science, University of North Texas, Nov 6, 2019

- Talk Title: Research experience sharing in 2019 new Ph.D. student orientation, Department of Information Science, University of North Texas, Aug 24, 2019
- Talk Title: Diversifying the citation contexts in academic literature for knowledge recommendation, Central China Normal University, Jan 10, 2019

## Professional Service

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- Leadership:
  - Co-editor of The Electrical Library (2022-present)
  - Chair, ASIS&T SIG-STI (Special Interest Group – Scientific and Technical Information) (2024-present). Served as the Chair-elect from 2023-2024.
  - Workshop and Tutorial Co-chair of the 24<sup>th</sup> ACM/IEEE Joint Conference on Digital Libraries (JCDL 2024).
  - Program Co-chair of the 6<sup>th</sup> IEEE International Conference on Artificial Intelligence Testing (IEEE AITest 2024).
  - Local Chair of the 2<sup>nd</sup> IEEE Conference on Mobility: Operations, Services, and Technologies (IEEE MOST 2024).
  - Workshops and Round Table Chair of the 18<sup>th</sup> International ISKO Conference (ISKO International Conference 2024).
  - Website Chair of the 5<sup>th</sup> IEEE International Conference on Artificial Intelligence Testing (IEEE AITest 2023).
  - Publicity Chair of the 18<sup>th</sup> ACM/IEEE Joint Conference on Digital Libraries (JCDL 2018).
- Editorial board member:
  - Frontiers in Research Metrics and Analytics (2023-present)
  - Heliyon Information Science (2022-present)
  - American Journal of Information Science and Technology (2020-present)
- Guest editor:
  - Computer Standards & Interfaces (IF = 5.0) special issue “Applications of Generative AI”, ongoing. Link: <https://www.sciencedirect.com/journal/computer-standards-and-interfaces/about/call-for-papers#applications-of-generative-ai>
  - Electronics (IF = 2.9) special issue “Applications of Deep Learning Techniques”, ongoing. Link: [https://www.mdpi.com/journal/electronics/special\\_issues/82123FACP2](https://www.mdpi.com/journal/electronics/special_issues/82123FACP2)
  - The Electrical Library (IF = 2.42) special issue “Innovation Measurement for Scientific Communication in the Era of Big Data”, 2023 – 2024, ongoing. Link: <https://www.emeraldgrouppublishing.com/calls-for-papers/innovation-measurement-scientific-communication-imscc-era-big-data>
  - Information Discovery & Delivery (IF = 2.245) special issue “Information and Data Quality for Intelligent Systems”, 2022-2023, finished.
- Co-chair of Workshops: DQIS workshop@ IEEE QRS 2021, 2022, 2023, 2024, EEKE+AI Informatics workshop@ JCDL 2023, iConference 2024, IMSC workshop@ JCDL 2023, 2024, AI4LCA workshop@ JCDL 2024
- Journal reviewer:
  - The Electrical Library (2017-present)
  - IEEE Access (2018-present)
  - Information Discovery and Delivery (2018-present)
  - Scientometrics (2021-present)
  - Computer Standards & Interfaces (2021-present)
  - JAMIA Open (2021-present)
  - Journal of Computational Social Science (2022-present)
  - Aslib Journal of Information Management (2022-present)
  - Applied Intelligence (2022-present)
  - ACM Transactions on Asian and Low-Resource Language Information Processing (2022-present)
  - Artificial Intelligence Review (2022-present)
  - Information Processing and Management (2022-present)
  - Journal of Informetrics (2022-present)

- Information Resources Management Journal (2022 - present)
- Frontiers in Public Health (2022-present)
- Neural Processing Letters (2022-present)
- Machine Learning (2022-present)
- Sensors (2022-present)
- Computational Intelligence and Neuroscience (2022-present).
- PeerJ Computer Science (2022-present).
- Mathematics (2022-present).
- Computer Animation and Virtual Worlds (2023-present).
- Complex & Intelligent Systems (2023-present).
- Knowledge and Information Systems (2023-present).
- Scientific Reports (2023-present).
- Expert Systems with Applications (2023-present).
- PLOS One (2023-present).
- Journal of the Association for Information Science and Technology (2023-present).
- Knowledge-Based Systems (2023-present).
- IEEE Transactions on Reliability (2023-present).
- IEEE Transactions on Big Data (2023-present).
- Education and Information Technologies (2024-present).
- IEEE Transactions on Artificial Intelligence (2024-present).
- IEEE Transactions on Computational Social Systems (2024-present).
- IEEE Transactions on Emerging Topics in Computational Intelligence (2024-present).
- IEEE Transactions on Knowledge and Data Engineering (2024-present).
- PC member and reviewer for Conferences and Workshops:
  - IEEE COMPSAC (2020, 2021, 2022, 2023, 2024)
  - IEEE ICSC (2020, 2021, 2022, 2023, 2024)
  - IEEE Big Data (2019, 2020, 2021, 2022, 2023, 2024, 2025)
  - IEEE QRS (2020, 2021, 2022, 2023, 2024)
  - IEEE ETCEA (2022)
  - iConference (2021, 2023, 2024, 2025)
  - JCDL (2021, 2022, 2023, 2024)
  - ASIS&T (2021, 2023, 2024)
  - ALLDATA (2022, 2023, 2024)
  - IEEE AITest (2023, 2024)
  - IEEE DSA (2023, 2024)
  - EMNLP (2024, 2025)

## Department Service

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09/2023-present	<b>Chair of the External Affairs and Physical Resources Committee</b> , Department of Information Science, University of North Texas
09/2022-present	<b>Faculty Search Committee</b> , Data Science Program (for assistant professor in practice), University of North Texas
09/2022-08/2023	<b>Faculty Search Committee</b> , Health Informatics Program (for tenure-track assistant professor), University of North Texas
09/2019-01/2022	<b>Faculty-Staff-Student Council</b> , Department of Information Science, University of North Texas

## Professional Associations

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- 2017-Present. Association for Computing Machinery (ACM)
- 2020-Present. Institute of Electrical and Electronics Engineers (IEEE)
- 2020-Present. ACM Special Interest Group on Information Retrieval (SIGIR)
- 2020-Present. Texas Computer Education Association (TCEA)
- 2020-Present. Association For Information Science and Technology (ASIS&T)
- 2021-Present. Association for the Advancement of Artificial Intelligence (AAAI)