

Haoxuan Zhang

haoxuanzhang@my.unt.edu |  Google Scholar

Denton, Texas - 76207, USA

OBJECTIVE

I'm a Ph.D. student in Information Science (Concentrate on Data Science) at the University of North Texas. I am a member of the Intelligent Data Engineering and Analytics (IDEA) Lab, supervised by Prof. Haihua Chen and Prof. Ting Xiao. My research interests are primarily in Innovation Measurement, Scientometrics, AI4Science.

EDUCATION

- **University of North Texas** August 2024 - continuing
Ph.D. in Information Science (Concentrate on Data Science) Denton, USA
- **Central China Normal University** September 2021 - June 2024
M.S. Library and Information Science Wuhan, China
- **Central China Normal University** September 2017 - June 2021
B.S. in Electronic Business Wuhan, China

PUBLICATIONS

- [C1] **Zhang, H.**, Li, R., Xiao, T., Ding, J., & Chen, H. (2025). **ReviewGuard: Enhancing Deficient Peer Review Detection via LLM-Driven Data Augmentation**. In *ACM/IEEE Joint Conference on Digital Libraries JCDL 2025 (JCDL2025)*, Just Accepted
- [C2] Li, R., **Zhang, H.**, Xiao, T., Ding, J., & Chen, H. (2025). **Unveiling the Merits and Defects of LLMs in Automatic Review Generation for Scientific Papers**. In *IEEE International Conference on Data Mining 2025 (ICDM2025)*, Just Accepted
- [Pre-print] **Zhang, H.**, Li, R., Zhang, Y., Xiao, T., Chen, J., Ding, J., & Chen, H. (2025). **The evolving role of large language models in scientific innovation: evaluator, collaborator, and scientist**. In *ArXiv*, <https://arxiv.org/abs/2507.11810>
- [J4] Wang, Z., Wang, N., **Zhang, H.**, Wang, Z., Wang, Z., Ding, J., & Chen, H. (2025). **IBID-CCT: A novel model for interdisciplinary breakthrough innovation detection based on the cusp catastrophe theory**. In *Information Processing & Management*, 62(4), 104121. <https://doi.org/10.1016/j.ipm.2025.104121>
- [J3] Wang, Z., **Zhang, H.**, Chen, J., & Chen, H. (2024). **An effective framework for measuring the novelty of scientific articles through integrated topic modeling and cloud model**. In *Journal of Informetrics*, 18(4), 101587. <https://doi.org/10.1016/j.joi.2024.101587>
- [J2] Wang, Z., **Zhang, H.**, Chen, H., Feng, Y., & Ding, J. (2024). **Content-based quality evaluation of scientific papers using coarse feature and knowledge entity network**. In *Journal of King Saud University - Computer and Information Sciences*, 36(6), 102119. <https://doi.org/10.1016/j.jksuci.2024.102119>
- [J1] 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**. In *The Electronic Library*, 42(4), 536-552. <https://doi.org/10.1108/el-06-2023-0141>

PROFESSIONAL SERVICE

Conference Organizing Committee:

Website Chair:

- *the 1st International Workshop on Data Mining and AI for Law (ICDM2025)*.
- *the 1st Integrated Approaches to Testing Data-Centric AI Systems: Methods, Metrics, and Benchmarks (AIxSE2025)*.
- *the 2nd Workshop on Innovation Measurement for Scientific Communication (IMSC) in the Era of Big Data (JCDL2024)*.
- *the 1st Workshop on Utilizing AI/ML to Enhance Information Extraction, Organization, and Retrieval from Large-scale Archival Collections (JCDL2024)*.
- *the 1st Workshop on Innovation Measurement for Scientific Communication (IMSC) in the Era of Big Data (JCDL2023)*.

Journal reviewer:

- *Humanities and Social Sciences Communications* 2025 - present
- *Journal of the Association for Information Science and Technology* 2025 - present
- *The Electronic Library* 2024 - present
- *Data Intelligence* 2024 - present

Reviewer for Conferences and Workshops:

- ICDM 2025, EMNLP 2025, ACL 2025, IEEE QRS 2025, IEEE AITest 2025,
- IEEE BigData 2025, JCDL 2025 (PC member (Resources Track)), JCDL 2024

TEACHING EXPERIENCE

- **Research Assistant**
UNT AI/CS Summer Research Program
 - **Teaching Assistant**
DTSC 5502 Section 401 - Principles and Techniques for Data Science

May 2025 - July 2025

[🌐]

Fall 2024, Spring 2025, Fall 2025

HONORS AND AWARDS

- **Excellent Master’s Thesis**
Central China Normal University
 - **Excellent Graduate Student**
Central China Normal University

2024

2022