Haoxuan Zhang

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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

[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, JCDL IMSC 2024

TEACHING EXPERIENCE

- **Research Assistant** — *May 2025 - July 2025*
  UNT AI/CS Summer Research Program — [🌐]
- **Teaching Assistant** — *Fall 2024, Spring 2025*
  DTSC 5502 Section 401 - Principles and Techniques for Data Science

HONORS AND AWARDS

- **Excellent Master's Thesis** — *2024*
  Central China Normal University
- **Excellent Graduate Student** — *2022*
  Central China Normal University