

Haoxuan Zhang

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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
<i>Ph.D. in Information Science (Concentrate on Data Science)</i> | August 2024 - continuing
Denton, USA |
| • Central China Normal University
<i>M.S. Library and Information Science</i> | September 2021 - June 2024
Wuhan, China |
| • Central China Normal University
<i>B.S. in Electronic Business</i> | September 2017 - June 2021
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), 104121104121. <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), 101587101587. <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. The Electronic Library**. In *The Electronic Library*, 42(4), 536552. <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).*
- *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:

- | | |
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| • <i>Humanities and Social Sciences Communications</i> | 2025 - present |
| • <i>Journal of the Association for Information Science and Technology</i> | 2025 - present |
| • <i>The Electronic Library</i> | 2024 - present |
| • <i>Data Intelligence</i> | 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
<i>UNT AI/CS Summer Research Program</i> | May 2025 - July 2025
 |
| • Teaching Assistant
<i>DTSC 5502 Section 401 - Principles and Techniques for Data Science</i> | Fall 2024, Spring 2025 |

HONORS AND AWARDS

- | | |
|---|------|
| • Excellent Master's Thesis
<i>Central China Normal University</i> | 2024 |
| • Excellent Graduate Student
<i>Central China Normal University</i> | 2022 |