

Tao Zhe

CONTACT INFORMATION		1450 Jayhawk Blvd Lawrence, KS, USA 66045 Phone: (785) 865-8108 Linkedin: TaoZhe linkedin
RESEARCH INTERESTS	My research interests focus on data mining, reinforcement learning, causal discovery, AI for science (AI4S), and the development of LLM-based agents, and I am actively seeking a related internship opportunity for summer 2026.	
EDUCATION	Ph.D. candidate student, Computer Science, University of Kansas, 2025.01 - Present M.S. , Data Analytics for Economics & Finance, University of Glasgow, 2022.09 - 2023.11. B.S. , Financial Engineering, East China University of Political Science and Law, 2016.09 - 2020.06.	
SCHOLARSHIP	Social Scholarship from East China University of Political Science and Law, 2019	
KEY SKILLS	<ul style="list-style-type: none">• Proficiency in Python, MATLAB, R, Eviews and Stata• Statistical Machine Learning, Deep Learning (proficiency in related API such as Scikit-learn, Hugging Face, and PyTorch Framework)• LLM Agent (LangGraph, Tool Invoke, Multi-agent System)• Spatial-Temporal Data Mining, Deep Reinforcement Learning, Graph Theory (GNNs)• Bayesian Data Analysis, Probability Modeling, Casual Inference/Discovery• Time Series Analysis, Applied Computational Finance• JavaScript, HTML, CSS, SQL, Scrapy, Selenium• Excellent English communication skills, both written and verbal• Junior Accountant Certificate of China/Securities Practicing Certificate of China• Financial economic related domain knowledge	
WORKING EXPERIENCE	Research Assistant(Full-time) , Peking University, SUPD Shenzhen, China 2024.02 - 2024.12 <ul style="list-style-type: none">• NLP / Causal Discovery/ Graph Neural Network / Reinforcement Learning/ web crawler/ Academic Research skill College lecturer (Part-time) , Yunnan Urban Construction Vocational College Yunnan, China 2023.09 - 2024.01 <ul style="list-style-type: none">• Part-time lecture/ Teaching skills Civil servant (Intern) , Chinese Local Bureau of Municipal Construction Yunnan, China 2021.09 - 2022.08 <ul style="list-style-type: none">• Management skills/ Time management/ Government Data Analysis Finance Bureau Accounting assistant (Intern) , Chinese Local Bureau of Finance Yunnan, China 2020.02 - 2020.07 <ul style="list-style-type: none">• Financial Accounting skills/ Government Document Writing/ Management skill.	
PUBLICATIONS	<ol style="list-style-type: none">1 Tao Zhe, Huazhen Fang, Kunpeng Liu, Qian Lou, Tamzidul Hoque, Dongjie Wang Heterogeneous Multi-Agent Reinforcement Learning with Attention for Cooperative and Scalable Feature Transformation. (Accepted by KDD 2026 Research Track)2 Liu, Q., & Zhe, T. (2025). Mapping The Evolution of Transport Justice Research: A Structural Topic Modelling Approach. <i>Transport Policy</i>, 103898.3 Ma, T., Zhe, T., & Xiao, R. (2025). Topics and trends in maritime decarbonization: A structural topic model approach. <i>Maritime Economics & Logistics</i>, 1-29.	

- 4 Redd, M., Zhe, T., & Wang, D. (2025). From queries to insights: Agentic LLM pipelines for spatio-temporal text-to-SQL. In Proceedings of the 1st ACM SIGSPATIAL International Workshop on Generative and Agentic AI for Multi-Modality Space-Time Intelligence (GeoGenAgent '25) (pp. 6–14). Association for Computing Machinery. <https://doi.org/10.1145/3764915.3770724>

PAPERS UNDER REVIEW

- 1 Wang, D., Huang, Y., Ying, W., Bai, H., Gong, N., Wang, X., ..., **Tao Zhe**, ... & Fu, Y. (2025). Towards Data-Centric AI: A Comprehensive Survey of Traditional, Reinforcement, and Generative Approaches for Tabular Data Transformation. arXiv preprint arXiv:2501.10555.
- 2 Chen, R., Deng, J., **T., Zhe**, Zhang, X., Zhang, Z., Wang, D., Luo, X., & Ma, J. (2025). Towards data-efficient preference optimization for multimodal large language model reasoning. (Submitted to AAAI 2026)
- 3 Gu, Y., Chen, B., Guo, **T., Zhe**, T., Xiao, Z., Qiao, Z., Ju, W., Wang, D., & Zhang, M. (2025). PRISM: Partial-label relational inference with spatial and spectral cues. Manuscript submitted for publication. (Submitted to AAAI 2026)
- 4 **Zhe, T.**, Lou, Q., Li, F., Yao, Z., Chen, Z., & Wang, D. (2025). Federated feature transformation: Enhancing knowledge aggregation with sample-aware calibration and local-global sequence fusion. Manuscript submitted for publication. (Under Review ICLR 2026)
- 5 **Zhe, T.**, Liu, R., Memar, F., Luo, X., Fan, W., Ye, X., ... & Wang, D. (2025). Constraint-Aware Route Recommendation from Natural Language via Hierarchical LLM Agents. arXiv preprint arXiv:2510.06078.
- 6 Liu, R., **Zhe, T.**, Fu, Y., Xia, F., & Wang, D. (2025). Permutation-Invariant Representation Learning for Robust and Privacy-Preserving Feature Selection. arXiv:2510.06078.

SERVICES

- 1). AI4DE: The 1st International Workshop on AI for Data Editing. KDD 2025 Workshop, August 3, 2025, Toronto, Canada. (Reviewer)
- 2). GeoGenAgent'25: The 1st International Workshop on Generative and Agentic AI for Multi-Modality Space-Time Intelligence. SIGSPATIAL 2025 Workshop, November 3, 2025, Minneapolis, MN, USA. (Reviewer)

LANGUAGE PROFICIENCY CERTIFICATE

- IELTS: 7.0, GRE: 319, Chinese native speaker
The securities qualification certificate
certificate of accounting professional
Google Data Analytics certificate