

Zijian ZhangSecond-Year Ph.D. Candidate
Room A217, Computer Building, Jilin University
No.2699 Qianjin Street, Changchun, China

→ +86 157 5431 0579

■ zhangzj2114@mails.jlu.edu.cn

• Personal Homepage

• LinkedIn Profile

EDUCATION

•School of Data Science, City University of Hong Kong, Joint Ph.D.	2022- $2025 (expected)$
•College of Computer Science and Technology, Jilin University, Ph.D.	2021- $2025 (expected)$
•College of Computer Science and Technology, Jilin University, M.E.	2018-2021
•College of Computer Science and Technology, Jilin University, B.E.	2014-2018

Research Interest

Spatio-Temporal Data Mining, Urban Computation, Recommender System

PUBLICATIONS

•First author

- Zijian Zhang, Xiangyu Zhao, Hao Miao, Chunxu Zhang, Hongwei Zhao, Junbo Zhang, Automated Spatio-Temporal Multi-Task Learning, The 37th AAAI Conference on Artificial Intelligence, AAAI'2023 [Paper] Summary: We establish a multi-task framework with adaptive spatio-temporal prediction operations optimized by AutoML to solve spatio-temporal multi-task learning.
- Muyang Li*, Zijian Zhang*, Xiangyu Zhao, Minghao Zhao, Runze Wu, Ruocheng Guo, AutoMLP: Automated MLP for Sequential Recommendations, The Web Conference 2023, WWW'2023 [Paper]
 Summary: We construct an MLP-based framework to tackle sequential recommendation and address long- and short-term interest with AutoML.
- Zijian Zhang, Xiangyu Zhao, Qidong Liu, Chunxu Zhang, Qian Ma, Hongwei Zhao, Prompt-Enhanced Spatio-Temporal Multi-Attribute Prediction, The 32nd ACM International Conference on Information and Knowledge Management, CIKM'2023
 - Summary: We devise an effective and effecient pretrain-prompt training pattern with spatio-temporal transformer and two kinds of prompt tokens for spatio-temporal multi-attribute prediction.
- Qian Ma*, Zijian Zhang*, Xiangyu Zhao, Haoliang Li, Hongwei Zhao, Hierarchical Information Enhanced Traffic Forecasting, The 32nd ACM International Conference on Information and Knowledge Management, CIKM'2023 Summary: We propose to rethink the modeling of sensor relationships by devising two hierarchical perspectives to offer common and representative spatio-temporal patterns.
- Zijian Zhang*, Ze Huang*, Zhiwei Hu*, Xiangyu Zhao, Wanyu Wang, Zitao Liu, Junbo Zhang, S. Joe Qin, Hongwei Zhao, The 32nd ACM International Conference on Information and Knowledge Management, CIKM'2023 Summary: We build an MLP-based framework with multiple temporal dependencies to solve spatio-temporal prediction with linear computational complexity.
- Hongwei Zhao(Supervisor), Zijian Zhang, Haoyu Zhao, Jiao Li, Huangshui Hu, Qingliang Li, Xing Li, Yuan Zhang, Lili Fan, Pingping Liu, An RFID Anti-collision Algorithm Based on Bidirectional Segmented Query, CN201911033349.4, China, Patent
 - **Summary**: We invent an efficient anti-collision algorithm to eliminate vacant slots during RFID query and immensely improve the system throughput rate.

Co-author

- Chunxu Zhang, Guodong Long, Tianyi Zhou, Peng Yan, Zijian Zhang, Chengqi Zhang, Bo Yang, Dual Personalization on Federated Recommendation, The 32nd International Joint Conference on Artificial Intelligence, IJCAI'2023
- Jiahao Liang, Xiangyu Zhao, Muyang Li, Zijian Zhang, Haochen Liu, Liu Zitao, MMMLP: Multi-modal Multi-layer Perceptron for Sequence Recommendation, The Web Conference 2023, WWW'2023
- Kesen Zhao, Xiangyu Zhao, **Zijian Zhang**, Muyang Li, Storage-saving Transformer for Sequential Recommendations, The 31st ACM International on Conference on Information and Knowledge Management, CIKM'2022
- Chunxu Zhang, Ximing Li, **Zijian Zhang**, Jiaxu Cui, Bo Yang, BO-Aug: Learning Data Augmentation Policies via Bayesian Optimization, 2022, *Applied Intelligence* [JCR Q2]

AWARDS AND ACHIEVEMENTS

• Third place in Carbon Neutral Competition track of 3rd Shandong Data Competition	2022
•Outstanding graduate student, Jilin University	2021
•Second prize of 'Huawei Cup' The 17th China Post-Graduate Mathematical Contest	2020
•Scholarship of oustanding post-graduate, Jilin University	2019

• Academic performance scholarship of post-graduate, Jilin University	2019
•Third class scholarship, Jilin University	2018
•College excellent student, Jilin University	2018
•First prize in Jilin Province of Contemporary Undergraduate Mathematical Contest	2016

ACADEMIC EXPERIENCES

•Student physical fitness monitoring system based on smart bracelet

Aug 2018-Nov 2019

Supervisor: Prof. Hongwei Zhao

- Design and implement a novel anti-collision algorithm in radio frequency identification system (In-dependently)
- Design and implement the device information management system in Java (Teamwork)

TECHNICAL SKILLS AND INTERESTS

Languages: Chinese (native), English (fluent).

Developer Tools: Python, Java.

Soft Skills: Leadership, Communication, Resilience, and Collaboration.

CONFERENCE EXTERNAL REVIEWER

- •KDD'22
- •ECMLPKDD'22
- •CIKM'22