

Guibin Zhang

bin2003@tongji.edu.cn | <https://guibinz.top/>

Education

4.73/5.0 **Bachelor of Data Science (Rank: 1/40)**

2021-2025 (expected)

Courses: Probability and Statistics | Combinatorics | Data Structure and Algorithm | Stochastic Process | Data Mining | Machine Learning | Neural Networks and Deep Learning | Exploratory Data Analysis | Web Data and Analysis

Publications

Graph Lottery Ticket Automated

The Twelfth International Conference on Learning Representations (**ICLR'24 Poster**)

Guibin Zhang, Kun Wang, Wei Huang, Yanwei Yue, Yang Wang, Roger Zimmermann, Aojun Zhou, Dawei Cheng, Jin Zeng[‡], Yuxuan Liang[‡]

Two Heads Are Better Than One: Boosting Graph Sparse Training via Semantic and Topological Awareness

The Forty-first International Conference on Machine Learning (**ICML'24**)

Guibin Zhang, Yanwei Yue, Kun Wang, Junfeng Fang, Yongduo Sui, Kai Wang, Yuxuan Liang, Dawei Cheng, Shirui Pan, Tianlong Chen

Fortune favors the invariant: Enhancing GNNs' generalizability with Invariant Graph Learning

Knowledge-based Systems (**KBS**; JCR Q1, IF: 8.8)

Guibin Zhang, Yiqiao Chen, Shiyu Wang, Kun Wang[‡], Junfeng Fang[‡]

The Heterophily Snowflake Hypothesis: Training and Empowering GNN for Heterophilic Graphs

The 30th SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD'24**)

Kun Wang[†], **Guibin Zhang**[†], Xinnan Zhang, Junfeng Fang, Xun Wu, Guohao Li, Shirui Pan, Wei Huang, Yuxuan Liang

NuwaDynamics: Discovering and Updating in Causal Spatio-Temporal Modeling

The Twelfth International Conference on Learning Representations (**ICLR'24 Spotlight**)

Kun Wang[†], Hao Wu[†], Yifan Duan, **Guibin Zhang**, Kai Wang, Xiaojiang Peng, Yu Zheng, Yuxuan Liang, Yang Wang

Modeling Spatio-temporal Dynamical Systems with Neural Discrete Learning and Levels-of-Experts

IEEE Transactions on Knowledge and Data Engineering (**TKDE'24**)

Kun Wang, Hao Wu, **Guibin Zhang**, Junfeng Fang, Yuxuan Liang, Yuankai Wu, Roger Zimmermann, Yang Wang

EXGC: Bridging Efficiency and Explainability in Graph Condensation

ACM The Web Conference (**WWW'24**)

Junfeng Fang, Xinglin Li, Yongduo Sui, Yuan Gao, **Guibin Zhang**, Kun Wang, Xiang Wang, Xiangnan He

Details on my personal website: <https://guibinz.top/>.

Experience

Hong Kong University of Science and Technology (GZ) , CityMind Lab | Intern

Jul 2023 - Sept 2023

Advisor: [Prof. Yuxuan Liang](#)

Spatio-temporal Modeling: Exploring causality-inspired data augmentation (see [NuwaDynamics](#));

Graph Sparsification: Exploring adaptive, dynamic and automated graph sparsification (see [AdaGLT](#)).

Tongji University , FinTech Lab | Intern

Nov 2023 - present

Advisor: [Prof. Dawei Cheng](#)

Graph-based Fraud Detection: Utilizing GNN for temporal fraud detection (submitted to TKDE/IJCAI);

Open-source Contribution: Developing an open-source graph fraud detector repository (see [Github - Antifraud](#)).

Skills

Programming Python, C/C++, Java, Matlab, Git, Scripting (Bash), LaTeX, HTML, Vim, R

Software Linux, Tensorflow, Pytorch, Docker

Language Chinese, English (IELTS 7.5)

Achievements

2022 **National Scholarship**
2022 **Merit Student**
2023 **Second Prize in China Undergraduate Mathematical Contest in Modeling**
2023 **First Prize of National College Statistical Modeling Competition**
2023 **Third Prize of Asia and Pacific Mathematical Contest in Modeling**
2024 **National Champion of SAS China University Data Analysis Competition**
2024 **SenseTime Scholarship**

Tongji University
Tongji University
Shanghai
Shanghai
Shanghai
China
China

Academic & University Service

2024 **Reviewer for International Conference on Machine Learning (ICML)**
2024 **Reviewer for ACM Multimedia (ACM MM)**
2024 **Reviewer for ACM Knowledge Discovery and Data Mining (SIG KDD)**
2024 **Reviewer for Annual Conference on Neural Information Processing Systems (NeurIPS)**

Association President

Tongji University Mathematical Modeling Association

Feb 2023 - present