

张震

# ZHEN ZHANG

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## RESEARCH INTEREST

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Data Mining, Machine Learning, Graph Neural Networks, etc.

## EDUCATION

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### Nanjing University

*September 2025 - Present*

- Tenure-Track Assistant Professor
- School of Intelligence Science and Technology

### National University of Singapore

*September 2021 - August 2025*

- Research Fellow
- Advisor: Prof. Bingsheng He

### Zhejiang University

*September 2015 - June 2021*

- Ph.D., Computer Science
- Advisor: Prof. Jiajun Bu

### Qingdao University

*September 2011 - June 2015*

- Bachelor, Information Engineering
- Top 2% among 300+ students

## PUBLICATIONS (\* INDICATES CORRESPONDING AUTHOR)

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[26] **Zhen Zhang**, Bingsheng He. Towards Unsupervised Open-Set Graph Domain Adaptation via Dual Reprogramming. The Thirty-ninth Annual Conference on Neural Information Processing Systems, (NeurIPS 2025).

[25] **Zhen Zhang**, Meihan Liu, Bingsheng He. PyGDA: A Python Library for Graph Domain Adaptation. Journal of Machine Learning Research 2025 (Under Review).

[24] **Zhen Zhang**, Bingsheng He. Aggregate to Adapt: Node-Centric Aggregation for Multi-Source-Free Graph Domain Adaptation. In Proceedings of The Web Conference 2025 (WWW 2025).

[23] Zhe Wang, Sheng Zhou, Jiawei Chen, **Zhen Zhang**, Binbin Hu, Yan Feng, Chun Chen, Can Wang. Dynamic Graph Transformer with Correlated Spatial-Temporal Positional Encoding. The 18th ACM International Conference on Web Search and Data Mining, (WSDM 2025).

[22] Bingqiao Luo, **Zhen Zhang\***, Qian Wang, Anli Ke, Shengliang Lu, Bingsheng He\*. AI-powered Fraud Detection in Decentralized Finance: A Project Life Cycle Perspective. ACM Computing Surveys [J] (ACM Computing Surveys, 2024).

- [21] Meihan Liu, **Zhen Zhang\***, Jiachen Tang, Jiajun Bu, Bingsheng He, Sheng Zhou. Revisiting, Benchmarking and Understanding Unsupervised Graph Domain Adaptation. Thirty-eighth Annual Conference on Neural Information Processing Systems, (NeurIPS 2024).
- [20] Bingqiao Luo, **Zhen Zhang\***, Qian Wang, Bingsheng He. Multi-Chain Graphs of Graphs: A New Approach to Analyzing Blockchain Datasets. The Thirty-eighth Annual Conference on Neural Information Processing Systems, (NeurIPS 2024).
- [19] Meihan Liu, **Zhen Zhang**, Ning Ma, Ming Gu, Haishuai Wang, Sheng Zhou, Jiajun Bu. Structure Enhanced Prototypical Alignment for Unsupervised Cross-Domain Node Classification. Elsevier Neural Networks[J] (Neural Networks, 2024).
- [18] **Zhen Zhang**, Meihan Liu, Anhui Wang, Hongyang Chen, Zhao Li, Jiajun Bu, Bingsheng He. Collaborate to Adapt: Source-Free Graph Domain Adaptation via Bi-directional Adaptation. In Proceedings of The Web Conference 2024 (WWW 2024).
- [17] Qian Wang, **Zhen Zhang\***, Zemin Liu, Shengliang Lu, Bingqiao Luo, Bingsheng He\*. EX-Graph: A Pioneering Dataset Bridging Ethereum and X. In Proceedings of the Twelfth International Conference on Learning Representations (ICLR 2024).
- [16] Meihan Liu, Zeyu Fang, **Zhen Zhang**, Ming Gu, Sheng Zhou, Xin Wang, Jiajun Bu. Rethinking Propagation for Unsupervised Graph Domain Adaptation. In Proceedings of the 38th Annual AAAI Conference on Artificial Intelligence (AAAI 2024).
- [15] **Zhen Zhang**, Bingqiao Luo, Shengliang Lu, Bingsheng He. Live Graph Lab: Towards Open, Dynamic and Real Transaction Graphs with NFT. In Proceedings of the Thirty-seventh Annual Conference on Neural Information Processing Systems (NeurIPS 2023).
- [14] Johan Kok Zhi Kang, Sien Yi Tan, Bingsheng He, **Zhen Zhang**. Real Time Index and Search Across Large Quantities of GNN Experts for Low Latency Online Learning. In Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2023).
- [13] Sihao Hu, **Zhen Zhang**, Bingqiao Luo, Shengliang Lu, Bingsheng He, Ling Liu. BERT4ETH: A Pre-trained Transformer for Ethereum Fraud Detection. In Proceedings of The Web Conference 2023 (WWW 2023).
- [12] Sihao Hu, **Zhen Zhang**, Shengliang Lu, Bingsheng He, Zhao Li. Sequence-Based Target Coin Prediction for Cryptocurrency Pump-and-Dump. In Proceedings of the 2023 International Conference on Management of Data (SIGMOD 2023).
- [11] Ning Ma, Hongyi Zhang, Xuhui Li, Sheng Zhou, **Zhen Zhang**, Jun Wen, Haifeng Li, Jingjun Gu, Jiajun Bu. Learning Spatial-Preserved Skeleton Representation for Few-Shot Action Recognition. In Proceedings of the 17th European Conference on Computer Vision (ECCV 2022).
- [10] Zhao Li, Yixin Liu, **Zhen Zhang**, Shirui Pan, Jianliang Gao, Jiajun Bu. Cyclic Label Propagation for Graph Semi-supervised Learning. World Wide Web [J] (WWWJ, 2022).
- [9] Ning Ma, Jiajun Bu, Lixian Lu, Jun Wen, Sheng Zhou, **Zhen Zhang**, Jingjun Gu, Haifeng Li, Xifeng Yan. Context-Guided Entropy Minimization for Semi-Supervised Domain Adaptation. Elsevier Neural Networks[J] (Neural Networks, 2022).
- [8] Chunbin Gu, Jiajun Bu, **Zhen Zhang**, Zhi Yu, Dongfang Ma, Wei Wang. Image Search with Text Feedback by Deep Hierarchical Attention Mutual Information Maximization. In Proceedings of the 29th ACM International Conference on Multimedia (MM 2021).
- [7] **Zhen Zhang**, Jiajun Bu, Martin Ester, Jianfeng Zhang, Zhao Li, Chengwei Yao, Huifen Dai, Zhi Yu, Can Wang. Hierarchical Multi-View Graph Pooling with Structure Learning. IEEE Transactions on Knowledge and Data Engineering[J] (TKDE 2021).

- [6] **Zhen Zhang**, Jiajun Bu, Martin Ester, Zhao Li, Chengwei Yao, Zhi Yu, Can Wang. H<sup>2</sup>MN: Graph Similarity Learning with Hierarchical Hypergraph Matching Networks. In Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2021).
- [5] **Zhen Zhang**, Jiajun Bu, Zhao Li, Chengwei Yao, Can Wang, Jia Wu. TigeCMN: On Exploration of Temporal Interaction Graph Embedding via Coupled Memory Neural Networks. Elsevier Neural Networks[J] (Neural Networks, 2021).
- [4] Sheng Zhou, Xin Wang, Martin Ester, Bolang Li, Chen Ye, **Zhen Zhang**, Can Wang, Jiajun Bu. Direction-aware User Recommendation Based on Asymmetric Network Embedding. ACM Transactions on Information Systems [J] (TOIS 2021).
- [3] Ning Ma, Jiajun Bu, Jieyu Yang, **Zhen Zhang**, Chengwei Yao, Zhi Yu, Sheng Zhou, Xifeng Yan Adaptive-Step Graph Meta-Learner for Few-Shot Graph Classification. In Proceedings of 29th ACM International Conference on Information and Knowledge Management (CIKM 2020).
- [2] **Zhen Zhang**, Jiajun Bu, Martin Ester, Jianfeng Zhang, Chengwei Yao, Zhao Li, Can Wang. Learning Temporal Interaction Graph Embedding via Coupled Memory Networks. In Proceedings of The Web Conference 2020 (WWW 2020).
- [1] **Zhen Zhang**, Hongxia Yang, Jiajun Bu, Sheng Zhou, Pinggang Yu, Jianwei Zhang, Martin Ester, Can Wang. ANRL: Attributed Network Representation Learning via Deep Neural Networks. In Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence (IJCAI 2018).

## PROJECTS

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PyGDA: a Python library for Graph Domain Adaptation

- Github: <https://github.com/pygda-team/pygda>
- Docs: <https://pygda.readthedocs.io/en/stable/>

## ACADEMIC ACTIVITIES

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### Conference AC/SAC/SPC

Senior Program Committee Member of IJCAI 2025

Area Chair of ICLR 2026

### Conference reviewer

Program Committee Member of ICML

Program Committee Member of ICLR

Program Committee Member of NeurIPS

Program Committee Member of KDD

Program Committee Member of WWW

Program Committee Member of AAAI

Program Committee Member of CVPR

Program Committee Member of ICCV

Program Committee Member of ECCV

Program Committee Member of CIKM

Program Committee Member of SDM

### Journal reviewer

Invited Reviewer for IEEE Transactions on Knowledge and Data Engineering (TKDE)  
Invited Reviewer for ACM Transactions on Information Systems (TOIS)  
Invited Reviewer for ACM Computing Surveys  
Invited Reviewer for ACM Transactions on Intelligent Systems and Technology (TIST)  
Invited Reviewer for IEEE Transactions on Neural Networks and Learning Systems (TNNLS)  
Invited Reviewer ACM Transactions on Knowledge Discovery from Data (TKDD)  
Invited Reviewer for Neurocomputing  
Invited Reviewer for Neural Networks  
Invited Reviewer for Information Science  
Invited Reviewer for Computers & Security  
Invited Reviewer for ACM Transactions on the Web

## HONORS & AWARDS

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Outstanding Doctoral Thesis of Zhejiang University  
Nominated for Outstanding Doctoral Thesis in Zhejiang Province (**the only one Computer Science Ph.D. thesis nominated for the award that year**)