

YIFEI SUN

Hangzhou, Zhejiang, China

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EDUCATION

Ph.D. student in Computer Science, Zhejiang University Sep. 2021 - Jun. 2025

Supervisor: [Prof. Yang Yang](#)

Visiting PhD, National University of Singapore Nov. 2023 - Jun. 2024

Supervisors: [Prof. Bingsheng He](#) and [Prof. Bryan Hooi](#)

Master student in Electronic Information, Zhejiang University Sep. 2019 - Sep. 2021

Supervisor: Prof. Guanghua Song and Prof. Bowei Yang

B.E.(& B.A.) in Computer Science and Technology(& Japanese) , Dalian University of Technology

Supervisor: Prof. Nan Ding Sep. 2014 - Jun. 2019

RESEARCH INTERESTS

My current research interests lie primarily in the area of **Machine Learning and Data Mining on Graphs**, including but not limited to graph neural networks, graph pre-training, and real-world applications on graphs. The main goal of my Ph.D. is to build generalizable graph models and frameworks, capable of learning from rich and complex graph data and enhancing their utility across diverse downstream tasks and datasets.

SELECTED PUBLICATIONS

In Submission:

Yifei Sun, Yang Yang, Xiao Feng, Zijun Wang, haoyang zhong, Chunping Wang, Lei Chen. [Handling Feature Heterogeneity with Learnable Graph Patches](#). Under review of KDD'25.

Yifei Sun, Zemin Liu, Bryan Hooi, Yang Yang, Rizal Fathony, Jia Chen, Bingsheng He. [Multi-Label Node Classification with Label Influence Propagation](#). Under review of ICLR'25.

Conference Papers:

Yifei Sun, Qi Zhu, Yang Yang, Chunping Wang, Tianyu Fan, Jiajun Zhu, Lei Chen. [Fine-tuning Graph Neural Networks by Preserving Graph Generative Patterns](#). AAAI'24.

Yifei Sun, Haoran Deng, Yang Yang, Chunping Wang, Jiarong Xu, Renhong Huang, Linfeng Cao, Yang Wang, and Lei Chen. [Beyond Homophily: Structure-aware Path Aggregation Graph Neural Network](#). IJCAI'22.

Xiaoxin He, Yijun Tian, **Yifei Sun**, Nitesh V Chawla, Thomas Laurent, Yann LeCun, Xavier Bresson, Bryan Hooi. [G-Retriever: Retrieval-Augmented Generation for Textual Graph Understanding and Question Answering](#). NeurIPS'24.

Taoran Fang, Wei Zhou, **Yifei Sun**, Kaiqiao Han, Lvbin Ma, and Yang Yang. [Exploring Correlations of Self-Supervised Tasks for Graphs](#). ICML'24.

Juren Li*, Fanzhe Fu*, Ran Wei, **Yifei Sun**, Zeyu Lai, Ning Song, Xin Chen, and Yang Yang. [Chromosomal Structural Abnormality Diagnosis by Homologous Similarity](#). KDD'24. (*: equal contribution)

Ziwei Chai, Yang Yang, Jiawang Dan, Sheng Tian, Changhua Meng, Weiqiang Wang, and **Yifei Sun**. [Towards Learning to Discover Money Laundering Sub-network in Massive Transaction Network](#). AAAI'23.

Journal Paper:

Xuan Yang, Yang Yang, Jintao Su, **Yifei Sun**, Shen Fan, Zhongyao Wang, Jun Zhan, and Jingmin Chen. [Who's Next: Rising Star Prediction via Diffusion of User Interest in Social Networks](#). TKDE, 2022.

ACADEMIC ACTIVITIES

- Co-organized the [full-day](#) workshop on [Graph Foundation Models](#) at the WWW 2024.
- Reviewer: ICLR, KDD, WWW, SMP, TBD.

SELECTED MENTORSHIP

Mentorship in [AINet Group](#) led by Prof. Yang Yang.

Jul. 2021 - Present

- Team leader of the Graph group (subgroup of AINet), currently collaborating with [Finvolution group](#).
- Organized weekly paper sharing and course study sessions with a total accumulation of 100+ papers and 2 courses.
- Responsible for server security and resource allocation as an administrator.

Mentorship in InterNet Association (INA) of Zhejiang University.

Nov. 2020 - Nov. 2022

- Mentored junior students of machine learning group to conduct their interested projects on graph mining and time series modeling.

SELECTED HONORS

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|---|---------------------------------------|
| • Outstanding Graduate Student of the Year, Zhejiang University. | 2020 - 2021, 2021 - 2022, 2022 - 2023 |
| • Merit Graduate Student of the Year, Zhejiang University. | 2020 - 2021 |
| • Second-class Academic Scholarship, Dalian University of Technology. | 2017 - 2018 |

SKILLS

- **Programming:** Python (PyTorch, PyG, DGL), C++, MySQL.
- **Natural Languages:** Mandarin Chinese (Native), English (Proficient), Japanese (Proficient, N1)