YIFEI SUN

Hangzhou, Zhejiang, China

yifeisun@zju.edu.cn ◇ Homepage ◇ Google Scholar

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 research interests lie primarily in **Machine Learning and Data Mining on Graphs**. The main goal of my Ph.D. research 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. Currently, I am also dedicated to *leveraging graph structures to help LLMs* achieve better performance in more challenging real-world scenarios.

SELECTED PUBLICATIONS

Conference Papers:

Yifei Sun, Zemin Liu, Bryan Hooi, Yang Yang, Rizal Fathony, Jia Chen, Bingsheng He. Multi-Label Node Classification with Label Influence Propagation. ICLR'25.

Yifei Sun, Yang Yang, Xiao Feng, Zijun Wang, haoyang zhong, Chunping Wang, Lei Chen. Handling Feature Heterogeneity with Learnable Graph Patches. KDD'25.

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)

Yufei He, Yuan Sui, Xiaoxin He, Yue Liu, **Yifei Sun**, Bryan Hooi. UniGraph2: Learning a Unified Embedding Space to Bind Multimodal Graphs. WWW'25.

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.

SELECTED HONORS

- Best Poster Award, SMP'24. Oct, 2024.
- 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

ACADEMIC ACTIVITIES

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

SELECTED MENTORSHIP

Team leader of Graph Group in AINet led by Prof. Yang Yang. Jul. 2021 - Present

- Led collaboration with Finvolution group, ensuring paper publications while driving the deployment in Finvolution's financial scenarios.
- 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.

SKILLS

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