YIFEI SUN

Hangzhou, Zhejiang, China

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EDUCATION

Ph.D. student in Computer Science, Zhejiang University   Sept 2021 - June 2025(expected)
Supervisor: Prof. Yang Yang

Visiting PhD, National University of Singapore   Nov 2023 - June 2024
Supervisor: Prof. Bingsheng He and Prof. Bryan Hooi

Master student in Electronic Information, Zhejiang University   Sept 2019 - Sept 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   Sept 2014 - Jun 2019

RESEARCH INTERESTS

My 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. Currently, I am focusing on graph foundation model and graph LLMs.

SELECTED PUBLICATIONS

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. In Proceedings of the 36th AAAI Conference on Artificial Intelligence (AAAI'24), 2024.

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. In Proceedings of the 31st International Joint Conference on Artificial Intelligence (IJCAI'22), 2022.

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. In Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI'23), 2023.

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. In IEEE Transaction on Knowledge and Data Engineering (TKDE), 2022.

Preprint:

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. 2024.

ACADEMIC ACTIVITIES

- Reviewer: KDD, WWW, SMP.

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 two junior students of machine learning group to conduct their interested projects on topics like graph mining and time series modeling.

SELECTED HONORS

- 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

- **LLMs:** Techniques in tuning Llama 2.

- **Programming:** Python (PyTorch, PyG, DGL), C++, MySQL.

- **Natural Languages:** Mandarin Chinese (Native), English (Proficient), Japanese (N1)