

# Yuanchen Bei

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## EDUCATION

**Zhejiang University**, Hangzhou, P.R. China

- M.S. in Computer Technology Sep 2022 – Mar 2025
  - Now a second-year master's student in the College of Computer Science and Technology.
  - Cumulative GPA: 3.74 / 5.00

**Jinan University**, Guangzhou, P.R. China

- B.S. in Computer Science and Technology Sep 2018 – Jun 2022
  - Graduated with Outstanding Honors.
  - Cumulative GPA: 4.25 / 5.00 (**ranking 1 / 84**)

## RESEARCH INTERESTS

- My research interests mainly include graph learning and data mining, with current particular emphasis on **graph anomaly detection, recommender systems, multi-modal relation modeling with graphs, and foundation models**.
- I have published multiple papers on representative data mining conferences, such as WWW, KDD, ICDE, ICDM, and CIKM.

## EXPERIENCE

**DEEP Lab@The Hong Kong Polytechnic University**, Hong Kong, P.R. China

- Research Assistant Jun 2024 – Oct 2024
  - Supervisors: Dr. Hao Chen and Prof. Xiao Huang
  - Focus: multimodal large language models and graph foundation models.

**Eagle Lab@Zhejiang University**, Hangzhou, P.R. China

- Research Assistant Sep 2022 – Mar 2025
  - Supervisors: Prof. Sheng Zhou and Prof. Jiajun Bu
  - Focus: graph learning, graph anomaly detection, and multi-modal relation learning.

**CRO Security Technology Team@Alibaba Group**, Hangzhou, P.R. China

- Research Intern, Graph Risk Control Group Jun 2023 – Nov 2023
  - Supervisors: Mr. Ao Li
  - Focus: graph anomaly detection and multi-label node classification.

**NLP Center@Meituan**, Beijing, P.R. China

- Research Intern, Graph Learning Group Feb 2022 – Aug 2022
  - Supervisors: MS. Hao Xu and MS. Mengdi Zhang
  - Focus: dynamic graph learning and graph pre-training.

**RecSys Group@Jinan University**, Guangzhou, P.R. China

- Research Assistant Oct 2019 – Jan 2022
  - Supervisors: Dr. Hao Chen and Prof. Feiran Huang
  - Focus: graph learning and recommender systems.

## PUBLICATIONS

### CONFERENCE PAPERS (\* EQUAL CONTRIBUTIONS)

- [5] Yijie Zhang\*, Yuanchen Bei\*, Hao Chen\*, Qijie Shen, et.al, “Multi-Behavior Collaborative Filtering with Partial Order Graph Convolutional Networks”, in *KDD*, 2024. **[Applied in Alibaba Taobao Homepage]**
- [4] Hao Chen\*, Yuanchen Bei\*, Qijie Shen, Yue Xu, et.al, “Macro Graph Neural Networks for Online Billion-Scale Recommender Systems”, in *WWW*, 2024. **[Applied in Alibaba Taobao Homepage]**
- [3] Yuanchen Bei, Hao Xu, Sheng Zhou, Huixuan Chi, et.al, “CPDG: A Contrastive Pre-Training Method for Dynamic Graph Neural Networks”, in *ICDE*, 2024.
- [2] Yuanchen Bei, Sheng Zhou, Qiaoyu Tan, Hao Xu, et.al, “Reinforcement Neighborhood Selection for Unsupervised Graph Anomaly Detection”, in *ICDM*, 2023.
- [1] Yuanchen Bei, Hao Chen, Shengyuan Chen, Xiao Huang, et.al, “Non-Recursive Cluster-Scale Graph Interacted Model for Click-Through Rate Prediction”, in *CIKM*, 2023.

**PRE-PRINT PAPERS (\* EQUAL CONTRIBUTIONS)**

- [3] Zhuonan Zheng, Yuanchen Bei, Sheng Zhou, Yao Ma, et.al, “Revisiting the Message Passing in Heterophilous Graph Neural Networks”, under *NeurIPS* review, 2024.
- [2] Yuanchen Bei, Sheng Zhou, Jinke Shi, Yao Ma, et.al, “Guarding Graph Neural Networks for Unsupervised Graph Anomaly Detection”, under *TNNLS* review, 2024.
- [1] Feiran Huang, Zhenghang Yang\*, Junyi Jiang\*, Yuanchen Bei\*, et.al, “Large Language Model Interaction Simulator for Cold-Start Item Recommendation”, in *Arxiv*, 2024.

**WORKSHOP PAPERS**

- [3] Yijie Zhang, Yuanchen Bei, Shiqi Yang, Hao Chen, et.al, “Alleviating Behavior Data Imbalance for Multi-Behavior Graph Collaborative Filtering”, in *IWLKG@ICDM*, 2023.
- [2] Huixuan Chi, Hao Xu, Mengya Liu, Yuanchen Bei, et.al, “Modeling Spatiotemporal Periodicity and Collaborative Signal for Local-Life Service Recommendation”, in *KDAH@CIKM*, 2023.
- [1] Yue Xu, Hao Chen, Zengde Deng, Yuanchen Bei, and Feiran Huang, “Flattened Graph Convolutional Networks For Recommendation”, in *DLP@KDD*, 2022.

**PATENTS**

- [2] Feiran Huang, Zhiquan Liu, and Yuanchen Bei, “Text Sentiment Analysis Method Based on Multi-Level Graph Pooling”, in *US Patent*, No. 11,687,728, 2023.
- [1] Feiran Huang, Guan Liu, and Yuanchen Bei, “Social Recommendation Method Based on Multi-Feature Heterogeneous Graph Neural Networks”, in *US Patent*, No. 11,631,147, 2023.

**OPEN-SOURCE PROJECTS**

- Graph Pre-Training Library (A Comprehensive Library of Graph Pre-Training Literature)
- DreamerGPT: Chinese Instruction-tuning for Large Language Model (Instruction Tuning for Open-Source LLMs with Chinese Corpus)
- A Comprehensive Cold-Start Recommendation Library & Toolbox
- DGraph-Fin Leaderboard Top-2 Solution (A Large-Scale Dynamic Graph Anomaly Detection Leaderboard)

**HONORS & AWARDS**

- First Class Scholarship, Zhejiang University Nov 2023
- Outstanding Undergraduate Student & Thesis Jun 2022
- National Scholarship Dec 2021
- First Class Scholarship, Jinan University May 2020

**ACADEMIC SERVICES**

- Conference Reviewer: KDD 2024, ECAI 2024.
- Invited Journal Reviewer: ACM TKDD (Since 2023), IEEE TII (Since 2024), IEEE TKDE (Since 2024).

[CV compiled on 2024-06-20]