

Zhe Xu

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EDUCATION

University of Illinois Urbana-Champaign

Ph.D. in Computer Science

Champaign, IL, USA

Aug. 2021 – May. 2025 (expected)

University of Illinois Urbana-Champaign

M.S. in Computer Science

Champaign, IL, USA

Aug. 2019 – May. 2021

Fudan University

B.E. in Electronic Engineering

Shanghai, China

Sep. 2014 – Jun. 2018

PUBLICATION

Preprint Papers

- **Zhe Xu**, Yuzhong Chen, Qinghai Zhou, Yuhang Wu, Menghai Pan, Hao Yang, Hanghang Tong. Node Classification Beyond Homophily: A Structure Learning Approach. In submission.
- Beidi Zhao, Boxin Du, **Zhe Xu**, Liangyue Li, and Hanghang Tong. Learning Optimal Propagation for Graph Neural Networks. In submission.
- Qing Chen, Nan Chen, Guande Wu, Ziyang Liu, **Zhe Xu**, Hanghang Tong, and Nan Cao. AutoGraph: Automatic Discovery and Presentation of Graph Insights via Annotated Visualizations. In submission.

Accepted Papers

- **Zhe Xu**, Kaize Ding, Yu-Xiong Wang, Huan Liu, and Hanghang Tong. Generalized Few-Shot Node Classification on Graphs. ICDM 2022.
- **Zhe Xu**, Boxin Du, and Hanghang Tong. Graph Sanitation with Application to Node Classification. TheWebConf 2022.
- **Zhe Xu**, Si Zhang, Yinglong Xia, Liang Xiong, Jiejun Xu, and Hanghang Tong. DESTINE: Dense Subgraph Detection on Multi-Layered Networks. CIKM 2021.
- **Zhe Xu**, Si Zhang, Yinglong Xia, Liang Xiong, and Hanghang Tong. Ranking on Network of Heterogeneous Information Networks. IEEE BigData 2020.
- Dongqi Fu*, **Zhe Xu***, Bo Li, Hanghang Tong, and Jingrui He. A View-Adversarial Framework for Multi-View Network Embedding. CIKM 2020. (*equal contribution)
- Kaize Ding, **Zhe Xu**, Hanghang Tong, and Huan Liu. Data Augmentation for Deep Graph Learning: A Survey. SIGKDD explorations, 2022.
- Haiyun Jiang, Li Cui, **Zhe Xu**, Deqing Yang, et al. Relation Extraction Using Supervision from Topic Knowledge of Relation Labels. IJCAI 2019.

RESEARCH EXPERIENCE

Research Intern

Applied Machine Learning Team, Meta. Manager: Kelvin Niu.

New York City, NY, USA

May. 2022 – Aug. 2022

- Constructed a large-scale representation learning system on user-video interaction data via graph neural networks.

Algorithm Engineer Intern

Search Department, Alibaba Group. Manager: Muhua Zhu.

Hangzhou, Zhejiang, China

Jun. 2018 – Aug. 2018

- Constructed E-commerce knowledge graphs on specific shopping topics.

Research Assistant

University of Illinois at Urbana-Champaign. Advisor: Prof. Hanghang Tong.

Champaign, IL, USA

Aug. 2019 – Present

- Conducted research on augmenting graph data

Research Assistant

Arizona State University. Advisor: Prof. Hanghang Tong.

Tempe, AZ, USA

Aug. 2018 – Aug. 2019

- Conducted research on multi-layered networks.

Undergraduate Research Assistant

Fudan University. Advisor: Prof. Yanghua Xiao.

Shanghai, China

Sep. 2016 – Jun. 2018

- Constructed a financial product knowledge base and a financial product Q&A system (Chinese).

GRANT EXPERIENCE

- Helped a successful NSF proposal on ‘Collaborative Research: Towards a Theoretic Foundation for Optimal Deep Graph Learning’.

TEACHING EXPERIENCE

Teaching Assistant

CS 512 Data Mining Principle

Champaign, IL, USA

Fall 2022, Spring 2021

Teaching Assistant

CS 412 Introduction to Data Mining.

Champaign, IL, USA

Fall 2021