

# Zhe Xu

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## EDUCATION

### University of Illinois at Urbana-Champaign

*Ph.D. student in Computer Science*

Champaign, IL, USA

*Aug. 2021 – Present*

### University of Illinois at Urbana-Champaign

*Master student in Computer Science*

Champaign, IL, USA

*Aug. 2019 – May. 2021*

### Fudan University

*B.E. in Electronic Engineering*

Shanghai, China

*Sep. 2014 – Jun. 2018*

## PUBLICATION

- **Zhe Xu**, Kaize Ding, Yu-Xiong Wang, Huan Liu, and Hanghang Tong. Generalized Few-Shot Node Classification on Graphs. In submission.
- Kaize Ding, **Zhe Xu**, Hanghang Tong, and Huan Liu. Data Augmentation for Deep Graph Learning: A Survey. 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.
- **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)
- 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 Assistant

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

Champaign, IL, USA

*Aug. 2019 – Present*

- Proposed an uncertainty-based shot-aware node classifier for the generalized few-shot node classification problem.
- Proposed a set of graph sanitization algorithms for boosting the performance of node classifiers.
- As a team member of the DARPA Modeling Adversarial Activities project, proposed and implemented solutions for the knowledge graph alignment part.
- Designed a graph fact extraction system as the backend of the graph storytelling project.
- Proposed an algorithm for detecting dense subgraphs on multi-layered networks.
- Proposed a view-adversarial multi-view network embedding framework.

### Research Assistant

*Arizona State University. Advisor: Prof. Hanghang Tong.*

Tempe, AZ, USA

*Aug. 2018 – Aug. 2019*

- Proposed algorithms for mining side information in the interaction of domain heterogeneous information networks.

### Algorithm Engineer Intern

*Search Department, Alibaba Group*

Hangzhou, Zhejiang, China

*Jun. 2018 – Aug. 2018*

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

### Undergraduate Research Assistant

*Shanghai Key Laboratory of Data Science, Fudan University. Advisor: Prof. Yanghua Xiao.*

Shanghai, China

*Sep. 2016 – Jun. 2018*

- Constructed a financial product knowledge base from online investment platforms and developed a financial product Q&A system (Chinese).

## TEACHING EXPERIENCE

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### **Teaching Assistant**

*CS 512 Data Mining Principle.*

Champaign, IL, USA

*Spring 2021*

### **Teaching Assistant**

*CS 412 Introduction to Data Mining.*

Champaign, IL, USA

*Fall 2021*