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Jiaxing Zhang

PhD Student, TA/RA

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SKILLS

Tools and Languages	Python, C++, PyTorch, Linux, Git, \LaTeX
Machine Learning	Natural Language Processing, Code Analysis, Graph Neural Network, Explainable AI
Communication	English, Chinese

RESEARCH EXPERIENCE

PhD Student / XAIG **Sep. 2022 — Present**
New Jersey Institute of Technology, Lab DaRL, under the supervision of Dr. Hua Wei Newark, NJ

- Explainable AI on GNNs, data mining, and data augmentation.
- Graph neural networks and graph-structure data.
- XAI technologies, edge-independent assumption, edge perturbation approach

PhD Student / NLP **Sep. 2020 — Jul. 2022**
New Jersey Institute of Technology, SPACE Lab Newark, NJ

- Software engineering, code analysis, and large language model/PLM.
- Code parsing, including AST/CFG/DFG/PDG on java/c/c++/python, etc.
- Embedding technologies, including BERT, CodeBERT, Word2Vec, etc.
- Big data collecting, cleaning, and processing.

Student Intern / CV **May. 2019 — Jul. 2019**
University of Minnesota Twin Cities, Park Lab Minneapolis, MN

- 3D point cloud reconstruction from multi-video streams.

Student Intern / Indoor localization **Sep. 2017 — Dec. 2018**
Xian Jiaotong University, Big Data and Smart Sense Lab Xi'an, Shaanxi

- Indoor localization with complex topography.

EDUCATION

PhD student in Information Systems, *New Jersey Institute of Technology* Sep. 2020 — Jul. 2025

- Currently third year on campus.

Bachelor of Computer Science, *Xi'an Jiaotong University* Sep. 2016 — Jul. 2020
Exchange student in University of Minnesota Twin Cities Jan. 2019 — Jul. 2019
Summer School in University of Alberta, Edmonton, Alberta, Canada Jul. 2017 — Aug. 2017

PUBLICATIONS

- **Jiaxing Zhang**, Dongsheng Luo, Hua Wei. 2023. MixupExplainer: Generalizing Explanations for Graph Neural Networks with Data Augmentation. In Proceedings of the 29th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining.
- **Jiaxing Zhang**, Zhuomin Chen, Hao Mei, Dongsheng Luo, Hua Wei. 2023. RegExplainer: Generating Explanations for Graph Neural Networks in Regression Task. Preprint at Arxiv.
- Yi Li, Aashish Yadavally, **Jiaxing Zhang**, Shaohua Wang, Tien Nguyen. 2023. Commit-level, Neural Vulnerability Detection and Assessment. Accepted by ESEC/FSE 2023.
- Yi Li, Aashish Yadavally, **Jiaxing Zhang**, Shaohua Wang, Tien Nguyen. 2023. DeMinify: Neural Variable Name Recovery and Type Inference. Accepted by ESEC/FSE 2023.

ACTIVITIES

President of Chinese Students and Scholars Association (CSSA) @ New Jersey Institute of Technology (NJIT) 2023 — present
Mathematical Contest in Modeling (MCM) 2017 — 2018