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# Jiaxing Zhang

PhD Student, TA/RA

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## SKILLS

<b>Tools and Languages</b>	Python, C++, PyTorch, Linux, Git, $\LaTeX$
<b>Machine Learning</b>	Natural Language Processing, Code Analysis, Graph Neural Network, Explainable AI, Information Theory, Time series
<b>Communication</b>	English, Chinese

## RESEARCH EXPERIENCE

<b>PhD Student / Explainable AI on Graph Neural Network</b> <i>New Jersey Institute of Technology, Lab DaRL, under the supervision of Dr. Hua Wei</i>	<b>Sep. 2022 — Present</b> Newark, NJ
<ul style="list-style-type: none"><li>Explainable AI on GNNs, data mining, and data augmentation.</li><li>Graph neural networks and graph-structure data.</li><li>Information Theory, Graph information bottleneck.</li><li>Large language model, prompt engineering.</li></ul>	
<b>PhD Student / Natural Language Processing</b> <i>New Jersey Institute of Technology, SPACE Lab</i>	<b>Sep. 2020 — Jul. 2022</b> Newark, NJ
<ul style="list-style-type: none"><li>Software engineering, code analysis, and large language model/pre-trained language model.</li><li>Code parsing, code graph building including AST/CFG/DFG/PDG on java/c/c++/python, etc.</li><li>Embedding technologies, including BERT, CodeBERT, Word2Vec, etc.</li><li>Big data (large code/text corpus) collecting, cleaning, and processing.</li></ul>	
<b>Student Intern / Computer Vision, Time-Sequential Data</b> <i>University of Minnesota Twin Cities, Park Lab</i>	<b>May. 2019 — Jul. 2019</b> Minneapolis, MN
<ul style="list-style-type: none"><li>3D point cloud object reconstruction from multi-video streams.</li></ul>	
<b>Student Intern / Indoor localization, Time-Sequential Data</b> <i>Xian Jiaotong University, Big Data and Smart Sense Lab</i>	<b>Sep. 2017 — Dec. 2018</b> Xi'an, Shaanxi
<ul style="list-style-type: none"><li>Indoor localization with complex topography.</li><li>Fourier transform, etc.</li></ul>	

## EDUCATION

<b>PhD student in Informatics</b> , <i>New Jersey Institute of Technology</i>	Sep. 2021 — Jul. 2025
<i>PhD student in Informatics, Work Remotely, New Jersey Institute of Technology</i>	Sep. 2020 — Jul. 2021
<b>Bachelor of Computer Science</b> , <i>Xi'an Jiaotong University</i>	Sep. 2016 — Jul. 2020
<i>Exchange student in University of Minnesota Twin Cities</i>	Jan. 2019 — Jul. 2019
<i>Summer School in University of Alberta, Edmonton, Alberta, Canada</i>	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. Accepted by Learning on Graphs Conference 2023.
- 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