Xiaolong Jin

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EDUCATION

School of Gifted Young, University of Science and Technology of China Hefei, China
B.S. in Statistics *Sept. 2019 - Present*
- GPA: 88.27/100, Rank: 18/77

RESEARCH EXPERIENCE

Lane-Level Traffic Flow Prediction HKUST(GZ)
Research Assistant, Supervisor: Prof.Hui Xiong *July 2022 - Present*
- Propose a fine-grained lane-level traffic flow prediction model.
- Use the heterogeneous graph to represent lane networks and develop a graph convolution mechanism that considers the relationship between different lanes.
- Improve the performance by hierarchical information of the road-level traffic flow.

Interpretable adversarial attacks with causal disentangled representations HKUST
Research Assistant, Supervisor: Prof.Tong Zhang *June 2022 - Aug. 2022*
- Explore the relationship between causal disentanglement and adversarial attack.
- Propose a prospective method to detect adversarial examples by causal disentanglement.
- Provide a direct interpretation for the adversarial noise from causal perspectives.

Research in the LINKE Lab USTC
Research Assistant, Supervisor: Prof.Lan Zhang *Sept. 2021 - Feb. 2022*
- Know about basic knowledge about federated learning and privacy protection.
- Develop a feature selection method in vertical federated learning for advertisement recommendation to reduce latency overhead.

HONORS AND AWARDS

- Outstanding Freshman Scholarship, (**Top 5%**) 2019
- Outstanding Undergraduate Scholarship, Gold award (**Top 3%**) 2020
- Outstanding Undergraduate Scholarship, Bronze award (**Top 10%**) 2022, 2021
- National Grants, (**Top 5%**) 2022, 2021, 2019

TEACHING EXPERIENCE

Teaching Assistant Mathematical Analysis (Credit:4, Class:120 freshmen)

RELATED COURSES

- Data Structures & Algorithms (95)
- Machine Learning (88)
- Linear Algebra (91)
- Mathematical Statistics (90)
- Convex Analysis (86)
- Algorithm Fundamentals (auditing)
- Methodological Ethics and Practice of Data Privacy (auditing)

EXTRACURRICULAR ACTIVITIES

Editor of School of Gifted Young USTC, China
Manage the WeChat Official account and edit the homepage *June 2020 - Present*

Member of School of Gifted Young Student Union USTC, China
Organize student activities *Nov. 2019 - Present*

Attendees of ACM TURC 2021 Hefei, China
Attend conferences and communicate with academicians *June 2021*

Skills Summary

Program languages	Python, C, R, Matlab
Frameworks	Pytorch, Keras, Django, Vue
Tools	GIT, MySQL, Shell
Platforms	Linux, Web, Windows
Academic Software	Mathematica, LATEX

Language

Toefl : 98 (Speaking 22)

GRE : 321