

Yaning Jia

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Homepage:

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EDUCATION	Master student, <i>Cyberspace Security</i> Huazhong University with Science and Technology, Wuhan, China School of Cyberspace Security Work with Prof. Hongfei Wang	Sep. 2021 - Present
	<i>B.S., Computer Science</i> Northeastern University, China School of Computer and Communication Engineering GPA: 4.00	Sep. 2017 - Jun. 2021
EXPERIENCE	Research Assistant Duke Kunshan University, China School of Data Science Mentors: Prof. Dongmian Zou Developed a Lipschitz algorithm for Graph Neural Networks (GNNs) that improves the robustness of GNNs against adversarial attacks and noisy data. The algorithm serves as a plug-in component, enhancing the overall robustness of GNN models..	Jun. 2022-Mar. 2023
	Research Assistant Brandeis University, Waltham, Massachusetts, US Michtom School of Computer Science Work with Ph.D. Chunhui Zhang, Prof. Chunxu Zhang, Prof. Jundong Li Developed a novel fairness method for Graph Neural Networks (GNNs) that focuses on ensuring individual fairness. This method, integrated into GNN models, significantly enhances individual fairness while retains performance.	Mar. 2023-Jun. 2023
	Research Assistant Zhejiang Lab, National Lab at China Institute of Artificial Intelligence	Jun. 2023-Present
RESEARCH INTEREST	<ul style="list-style-type: none">• Deep learning, Machine Learning, Data Mining• Robustness and Stability on Neutral Networks (<i>e.g.</i>, my <i>KDD'23 on Adversarial attacks of GNNs</i>)• Fairness on Neutral Networks (<i>e.g.</i>, my <i>ICLM'23 workshop on individual fairness of GNNs</i>)	
PAPER	<ul style="list-style-type: none">• Yaning Jia, Dongmian Zou, Hongfei Wang, Hjin. Enhancing Node-Level Adversarial Defenses by Lipschitz Regularization of Graph Neural Networks, <i>the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)</i>, 2023.• Yaning Jia, Chunhui Zhang. Stabilizing GNN for Fairness via Lipschitz Bounds, <i>New Frontiers in Adversarial Machine Learning (AdvML@ICML)</i>, 2023.• Yaning Jia, Chunhui Zhang, Jundong Li, Chuxu Zhang. Characterizing Lipschitz Stability of GNN for Fairness, <i>on submission & extension of my AdvML@ICML'23 paper</i>.	
SKILLS	Programming Skills: C++, Python, java, PyTorch, MATLAB, Git, PyG, DGL Operating System: Linux	

ACTIVITIES

- Conference official reviewer for ICML2023 workshop, KDD2023 workshop
Latest Update: June 2023