

Yaning Jia

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Homepage:

<https://github.com/YaningJia>

EDUCATION	Master student, Cyberspace Security Huazhong University with Science and Technology, Wuhan, China School of Cyberspace Security Work with Prof. Hongfei Wang	Sep. 2021 - Present
	B.S., Computer Science 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 Researched Lipschitz property and proposed a general frameworks for deep neutral networks from a perspective of Lipschitz, which improves stability of network models and enhance their robustness against adversarial attacks and noisy data. Also, the algorithm can serve as a plug-in component, enhancing the overall robustness of models.	Jun. 2022-Mar. 2023
	Research Assistant Brandeis University, Waltham, Massachusetts, US Michtom School of Computer Science Work with Chunhui Zhang, Prof. Chunxu Zhang, Prof. Jundong Li Developed a novel fairness method for deep neural networks that focuses on ensuring individual fairness. Compared previous methods, this method, integrated into network models, significantly enhances individual fairness with lower time cost 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">• Robustness against adversarial attacks, Lipschitz Stability, Individual Fairness, Trustworthy and efficient AI• Robustness and Stability on Neutral Networks (<i>e.g., my KDD'23 on Adversarial attacks of DNNs</i>)• Fairness on Neutral Networks (<i>e.g., my ICLM'23 workshop on individual fairness of DNNs</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