Jiashi Gao

Phone: +86-15623981229 ‖ Email: gaojs2021@mail.sustech.edu.cn ‖ Website: https://ginred0.github.io/

EDUCATION

Southern University of Science and Technology ***Supervisor**: Prof. Xuetao Wei* Shenzhen, China
PhD in *Intelligent Manufacturing and Robotics* *Sep 2021- Jul 2025(Expected)*
Thesis: "Enhancing Fairness for Heterogeneous User Populations in Collaborative Intelligence Systems"

Huazhong University of Science and Technology ***Supervisor**: Prof. Yongji Wang* Wuhan, China
M.Eng. in Aircraft Navigation, Guidance and Control *Sep 2016- Jun 2019*
Thesis: "Reentry Trajectory Optimization and Guidance Method for Lifting Vehicle"

University of Electronic Science and Technology of China Chengdu, China
B.Eng. in Measurement and Control Technology and Instruments *Sep 2012- Jun 2016*

RESEARCH INTERESTS

My research interests lie at the intersection of computer science, economics, and sociology, focusing on fairness in AI- and human-involved systems—including data markets, federated learning, and human–AI collaboration. I investigate fairness-related issues arising from human factors such as heterogeneous data resources, behaviors, cognitive capacities, and demographic characteristics. My academic goal is to empower AI systems to be trustworthy, efficient, and fair in practice.

WORK EXPERIENCE

Southern University of Science and Technology *Oct 2020- Aug 2021*
Research assistant: Research on intelligent transportation systems ***Supervisor**: Prof. James Jianqiao Yu*

Huawei Technologies Co., Ltd *Jul 2019- Jan 2020*
Data engineer: Enterprise data lake construction and governance

HONORS

School Outstanding Graduate@SUSTech	2025
BYD Scholarship@SUSTech	2024
Outstanding Contribution Award of the Year, WEI Lab@SUSTech	2023
Outstanding Contribution Award of the Year, WEI Lab@SUSTech	2023
Outstanding Trainee in Hardware Installation Training@Huawei Technologies Co., Ltd.	2019
Outstanding Graduate Scholarship (2 times)@HUST	2017, 2018
School Outstanding Graduate@UESTC	2016
First Prize of National College Student Electronic Design Competition@UESTC	2015
People's Scholarship (2 times)@UESTC	2013, 2014
Seagate Scholarship@UESTC	2012

SELECTED WORKS

AI Fairness, Bias, Stereotype

[1] Yuxuan LI, Xinwei Guo, Jiashi Gao, Guanhua Chen, Xiangyu Zhao, Jiaxin Zhang, Quanying Liu, Haiyan Wu, Xin Yao, Xuetao Wei. LLMs Trust Humans More, That's a Problem! Unveiling and Mitigating the Authority Bias in Retrieval-Augmented Generation. In The 63rd Annual Meeting of the Association for Computational Linguistics (**ACL** Main). 2025.

[2] Xinwei Guo, Jiashi Gao, Junlei Zhou, Jiaxin Zhang, Guanhua Chen, Xiangyu Zhao, Quanying Liu, Haiyan Wu, Xin Yao, Xuetao Wei. The Elephant in the Room: Exploring the Role of Neutral Words in Language Model Group-Agnostic Debiasing. In The 63rd Annual Meeting of the Association for Computational Linguistics (**ACL** Findings). 2025.

[3] Jiashi Gao, Ziwei Wang, Xiangyu Zhao, Xin Yao, and Xuetao Wei. Does Egalitarian Fairness Lead to Instability? The Fairness Bounds in Stable Federated Learning Under Altruistic Behaviors. In The Thirty-eighth Annual Conference on Neural Information Processing Systems (**NeurIPS**). 2024.

[4] Junlei Zhou, Jiashi Gao, Xiangyu Zhao, Xin Yao, and Xuetao Wei. Association of Objects May Engender Stereotypes: Mitigating Association-Engendered Stereotypes in Text-to-Image Generation. In The Thirty-eighth Annual Conference on Neural Information Processing Systems (**NeurIPS, Spotlight** $\sim 3\%$). 2024.

[5] Ziyi Zhou, Xinwei Guo, Jiashi Gao, Xiangyu Zhao, Shiyao Zhang, Xin Yao, and Xuetao Wei. Unveiling the Bias Impact on Symmetric Moral Consistency of Large Language Models. In The Thirty-eighth Annual Conference on Neural Information Processing Systems (**NeurIPS**). 2024.

[6] Jiashi Gao, Ziwei Wang, Xiangyu Zhao, Xin Yao, and Xuetao Wei. Surviving in Diverse Biases: Unbiased Dataset Acquisition in Online Data Market for Fair Model Training. In Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society (**AIES**), vol. 7, pp. 451-462. 2024.

[7] Jiashi Gao, Xin Yao, and Xuetao Wei. Anti-Matthew FL: Bridging the Performance Gap in Federated Learning to Counteract the Matthew Effect. In The 27th European Conference on Artificial Intelligence (**ECAI**), pp. 1967-1974. 2024.

[8] Jiashi Gao, Kexin Liu, Xinwei Guo, Junlei Zhou, Jiaxin Zhang, Xiangyu Zhao, Xin Yao, Xuetao Wei. Cognition Disparities among Decision-Makers: Interpretability of Group-Level Calibration for Fair AI-Assisted Decision-Making, under review.

[9] Jiashi Gao, Ziwei Wang, Xiangyu Zhao, Xin Yao, and Xuetao Wei. PFAttack: Stealthy Attack Bypassing Group Fairness in Federated Learning. arXiv preprint.

Economics in Digital Assets Transactions

[1] Jiashi Gao, Ziwei Wang, and Xuetao Wei. An Adaptive Pricing Framework for Real-Time AI Model Service Exchange, in IEEE Transactions on Network Science and Engineering (**TNSE**), vol. 11, no. 5, pp. 5114-5129. 2024.

[2] Ziwei Wang, Jiashi Gao, and Xuetao Wei. Do NFTs' owners really possess their assets? A first look at the NFT-to-asset connection fragility. In Proceedings of the ACM Web Conference (**WWW**), pp. 2099-2109. 2023.

[3] Jiashi Gao, Ziwei Wang, and Xuetao Wei. Incentive Data Monetization: Robust Valuation for Divisible Assets in Partial-Purchasing Service. Major Revision.

PRESENTATIONS

Conferences & Forums

27th European Conference on Artificial Intelligence (ECAI 2024), Santiago de Compostela, Spain October 2024

Seminar Talks

1st NeurIPS 2024 Seminar @ SUSTech, Shenzhen, China December 2024

TEACHING EXPERIENCE

Teaching assistant, CSE5005: Advanced Computer Networks and Big Data Fall 2023

Teaching assistant, CS109: Introduction to Computer Programming Spring 2023

PROFESSIONAL SERVICES

Reviewer

International Conference on Machine Learning (ICML) 2025

International Conference on Learning Representations (ICLR) (Notable Reviewer) 2025

IEEE Transactions on Network Science and Engineering (IEEE TNSE) 2024

Conference on Neural Information Processing Systems (NeurIPS) 2024

ACM Multimedia (MM) 2023

Latin America Congress on Computational Intelligence (LA-CCI) 2023