Shaojie Bai

College of Control Science and Engineering
Zhejiang University

Phone: +86 18868116595
Email: white.shaojie@gmail.com

Research Interest

Establish reliable decision-making mechanisms in unreliable scenarios, e.g., in social, economic and game scenarios. Especially, including but not limited to:

- Social Learning in Multi-Agent Reinforcement Learning
- Population Games and Evolutionary Dynamics
- Trust and Reputation Mechanism Design

Education

2020– † Ph.D., Cyber Security, Zhejiang University

Supervisors: Jiming Chen and Peng Cheng

Area of Study: Reliable Decision-Making for Multi-Agent System

2016–2020 B.Sc., Automation, Zhejiang University

Thesis: Adaptive Hierarchical Decomposition for Range Query under Local Differential Privacy.

Advisor: Mingyang Sun

GPA: 3.74/4

Internship

2021.03–2021.06 Teaching Assistant, Big Data Analysis, Zhejiang University

2020.03–2021.01 Algorithm Engineer, Alibaba Local Service

Supervisors: Tian He and Guobin Shen

2018.07–2018.09 Academic Intern, Singapore University of Technology and Design

Supervisors: Xingyin Wang

Selected Honours and Awards

2021	Alibaba Excellent Academic Intern
2020	Outstanding Graduates Award of Zhejiang University
2019	Honorable Mention, Mathematical Contest in Modeling (MCM)
2017,2018,2019	Academic Scholarship of Zhejiang University

Publications

[1] **Bai, S.**, Muller, T., Wang, D., Chen, J., Cheng, P. (2022, Under Review). Stability of Weighted Majority Voting under Estimated Weights. Advances in Neural Information Processing Systems (NeurIPS).

[2] Du, L., Zhang, Z., **Bai, S.**, Liu, C., Ji, S., Cheng, P., Chen, J. (2021, November). AHEAD: Adaptive Hierarchical Decomposition for Range Query under Local Differential Privacy. In Proceedings of the 2021 ACM SIGSAC Conference on Computer and Communications Security (CCS) (pp. 1266-1288). ACM.

[3] Zheng, H., Zhang, Y., Zhang, L., Xia, H., **Bai, S.**, Shen, G., Li, X. (2021, December). GraFin: An Applicable Graph-based Fingerprinting Approach for Robust Indoor Localization. In 2021 IEEE 27th International Conference on Parallel and Distributed Systems (ICPADS) (pp. 747-754). IEEE.

Skills

Mathematical ability in calculus, matrix, probability, convex optimization, etc. Programming languages ability in Python, MATLAB, etc.