Yulai Zhao

Homepage Google Scholar DBLP ORCID Semantic Scholar ResearchGate GitHub LinkedIn

yulaiz@princeton.edu

Research Interests

Machine Learning, Reinforcement Learning, Diffusion Models

Education

Princeton University, Department of Electrical and Computer Engineering 2022 - Present

- Ph.D. in Machine Learning
- Advisor: S. Y. Kung

Tsinghua University, Department of Electronic Engineering 2018 - 2022

- B.Eng. in Electronic Information Science and Technology
- Advisors: Simon S. Du, Hongwei Chen

Publications

* denotes equal contribution or alphabetical ordering.

Conference Proceedings

1. **Provably Efficient CVaR RL in Low-rank MDPs**
   Yulai Zhao*, Wenhao Zhan*, Xiaoyan Hu*, Ho-fung Leung, Farzan Farnia, Wen Sun, Jason D. Lee
   International Conference on Learning Representations (ICLR) 2024
2. **Local Optimization Achieves Global Optimality in Multi-Agent Reinforcement Learning**
   Yulai Zhao, Zhuoran Yang, Zhaoran Wang, Jason D. Lee
   International Conference on Machine Learning (ICML) 2023
3. **Blessing of Class Diversity in Pre-training**
   Yulai Zhao, Jianshu Chen, Simon S. Du
   International Conference on Artificial Intelligence and Statistics (AISTATS) 2023
   (Oral presentation & notable paper, 2% acceptance rate)
4. **Provably Efficient Policy Gradient Methods for Two-Player Zero-Sum Markov Games**
   Yulai Zhao, Yuandong Tian, Jason D. Lee, Simon S. Du
   International Conference on Artificial Intelligence and Statistics (AISTATS) 2022

Working Papers

1. **Optimizing the Performative Risk under Weak Convexity Assumptions**
   Yulai Zhao
   NeurIPS 2022 Workshop on Optimization for Machine Learning

Awards/Honors

International Conference on Artificial Intelligence and Statistics (AISTATS) Notable Paper *2023*

Scholarship of Academic Excellence *2019,2020*
Awarded to Tsinghua students ranking top 5 %.

Toyota Scholarship *2019*
Awarded to the department's top 3 out of 260+ students.

Top 10 in the *Infinity of Math* Competition *2018*
Awarded to students outperforming 150+ participants in the school-wide calculus contest.

Programming and Computing Skills

- Proficient: Python (NumPy, PyTorch, pandas)
- Intermediate: MATLAB, C/C++, Kdb+