

Name: Shaocong Ma
Email: s.ma@utah.edu
Website: mshaocong.github.io

EDUCATION

B.S. in Statistics Sichuan University	Sep. 2013-Jun. 2017 GPA: 3.6/4.0
M.A. in Statistics University of California, Santa Barbara	Sep. 2017-Jun. 2019 GPA: 3.9/4.0
PhD in Electrical and Computer Engineering University of Utah	Sep. 2019-Jun. 2024 GPA: 4.0/4.0

PUBLICATIONS

- Shaocong Ma**, Yi Zhou. *Understanding the Impact of Model Incoherence on Convergence of Incremental SGD with Random Reshuffle.* ICML 2020.
- Shaocong Ma**, Yi Zhou, Shaofeng Zou. *Variance-Reduced Off-Policy TDC Learning: Non-Asymptotic Convergence Analysis.* NeurIPS 2020.
- Shaocong Ma**, Ziyi Chen, Yi Zhou, Shaofeng Zou. *Greedy-GQ with Variance Reduction: Finite-time Analysis and Improved Complexity.* ICLR 2021.
- Ziyi Chen, **Shaocong Ma**, Yi Zhou. *Sample Efficient Stochastic Policy Extragradient Algorithm for Zero-Sum Markov Game.* ICLR 2022.
- Ziyi Chen, **Shaocong Ma**, Yi Zhou. *Accelerated Proximal Alternating Gradient-Descent-Ascent for Nonconvex Minimax Machine Learning.* ISIT 2022.
- Shaocong Ma**, Ziyi Chen, Yi Zhou, Kaiyi Ji, Yingbin Liang. *Data Sampling Affects the Complexity of Online SGD over Dependent Data.* UAI 2022.
- Ziyi Chen, **Shaocong Ma**, Yi Zhou. *Finding Correlated Equilibrium of Constrained Markov Game: A Primal-Dual Approach.* NeurIPS 2022.
- Shaocong Ma**, Ziyi Chen, Shaofeng Zou, Yi Zhou. *Decentralized Robust V-Learning for Solving Markov Games with Model Uncertainty.* Submitted to JMLR.
- Shaocong Ma**, James Diffenderfer, Bhavya Kailkhura, and Yi Zhou. *When Non-Differentiable PDE Solver Meets Deep Learning: Partially-Differentiable Learning for Efficient Fluid Flow Prediction.* Submitted to AAAI 2024.

EXPERIENCES

Student Intern (AI4Science) Lawrence Livermore National Security	May. 2022-Aug. 2022
Developed a novel hybrid algorithm for overcoming the non-differentiability of external solver in fluid flow prediction problems.	

Reviewer Experiences: ICML; ICLR; NeurIPS; IEEE BigData; IJCAI; UAI; AAAI; AISTAT; TMLR; IEEE TETCI.

Teaching Assistant: Statistics; Statistics for Life Science; Statistics for Economics; Survival Analysis; Actuarial Statistics; Fundamentals of Signals and Systems.