SHAOCONG MA

CONTACT INFORMATION

E-mail: s.ma@utah.edu
Phone: (+1) 385-439-4778
Website: mshaocong.github.io

EDUCATION

PhD in Electrical and Computer Engineering   Sep. 2019-Jun. 2023
University of Utah   GPA:4.0/4.0

M.A. in Statistics   Sep. 2017-Jun. 2019
University of California, Santa Barbara   GPA: 3.9/4.0

B.S. in Statistics   Sep. 2013-Jun. 2017
Sichuan University   GPA: 3.6/4.0

PUBLICATIONS

Shaocong Ma, Yi Zhou. *Understanding the Impact of Model Incoherence on Convergence of Incremental SGD with Random Reshuffle.* **ICML. 2020.** (Acceptance rate: 21.8%)

Shaocong Ma, Yi Zhou, Shaofeng Zou. *Variance-Reduced Off-Policy TDC Learning: Non-Asymptotic Convergence Analysis.* **NeurIPS. 2020.** (Acceptance rate: 20.1%)

Shaocong Ma, Ziyi Chen, Yi Zhou, Shaofeng Zou. *Greedy-GQ with Variance Reduction: Finite-time Analysis and Improved Complexity.* **ICLR. 2021.** (Acceptance rate: 28.7%)

PROJECTS

How to Improve Sample Complexity of SGD over Highly Dependent Data?
- Submitted to UAI 2022.
- Theoretically explained the influence of data correlation for optimization.

Sample Efficient Stochastic Policy Extragradient Algorithm for Zero-Sum Markov Game
- Submitted to ICLR 2022.
- Provided the SOTA complexity result for solving zero-sum Markov game.

A PyTorch Implementation of Wasserstein Robust Model (WRM)
- GitHub: https://github.com/mshaocong/wasserstein_robust_model
- Related paper: https://arxiv.org/abs/2112.11663
- Implemented an adversarial attacking framework used for WRM training.

OTHER EXPERIENCES

Reviewer/ Program Committee
NeurIPS 2021; ICML 2021; IEEE BigData 2021; IJCAI-ECAI 2022.

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