

SHAOCONG MA

CONTACT INFORMATION

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EDUCATION

PhD in Electrical and Computer Engineering

University of Utah

Sep. 2019-Jun. 2023

GPA: 4.0/4.0

M.A. in Statistics

University of California, Santa Barbara

Sep. 2017-Jun. 2019

GPA: 3.9/4.0

B.S. in Statistics

Sichuan University

Sep. 2013-Jun. 2017

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?

- To be submitted.
- Theoretically explained the influence of data correlation for optimization.
- Built an elegant and efficient optimization method for highly-correlated dataset.

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.

MiniFpsGame: A gym-Compatible FPS Game Environment

- GitHub: <https://github.com/mshaocong/minifpsgame>
- Developed a minimalistic 3D FPS game based on Pyglet (OpenGL 3D graphics).

OTHER EXPERIENCES

Reviewer/ Program Committee

NeurIPS 2021; ICML 2021; IEEE BigData 2021.

Teaching Assistant

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