

# SHAOCONG MA

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## EDUCATION

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### PhD in Electrical and Computer Engineering

University of Utah

Sep. 2019-Jun. 2024

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

## INTERNSHIP

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### Student Intern

Lawrence Livermore National Security

May. 2022-Aug. 2022

- Develop a backpropagation-free training algorithm for a GNN containing non-differentiable modules.

## PUBLICATIONS

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**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.* IEEE ISIT 2022.

Ziyi Chen, **Shaocong Ma**, Yi Zhou. *Finding Correlated Equilibrium of Constrained Markov Game: A Primal-Dual Approach.* NeurIPS 2022.

**Shaocong Ma**, Ziyi Chen, Yi Zhou, Kaiyi Ji, Yingbin Liang. *Data Sampling Affects the Complexity of Online SGD over Dependent Data.* UAI 2022.

## OTHER EXPERIENCES

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**Conference Reviewer:** NeurIPS 2021; IEEE BigData 2021; IJCAI-ECAI 2022; ICML 2022; NeurIPS 2022; ICLR 2023; IJCAI 2023; ICML 2023; UAI 2023; NeurIPS 2023.

**Journal Reviewer:** TMLR; IEEE Transactions on Emerging Topics in Computational Intelligence.

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