

SHAOCONG MA

CONTACT INFORMATION

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EDUCATION

PhD in Electrical and Computer Engineering Sep. 2019-Jun. 2024
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

INTERNSHIP

Student Intern May. 2022-Aug. 2022
Lawrence Livermore National Security

- Develop a backpropagation-free training algorithm for a GNN containing non-differentiable modules.
- Test the out-of-distribution robustness of a GNN model on large-scale CFD problems.

SELECTED 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.

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

PROJECTS

A PyTorch Implementation of Wasserstein Robust Model (WRM)

- GitHub: https://github.com/mshaocong/wasserstein_robust_model
- Related paper (published on IEEE ISIT 2022): <https://arxiv.org/abs/2112.11663>

OTHER EXPERIENCES

Reviewer/ Program Committee: NeurIPS 2021; IEEE BigData 2021; IJCAI-ECAI 2022; ICML 2022; NeurIPS 2022; ICLR 2023; IJCAI 2023; ICML 2023; UAI 2023.

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