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.
- Design a sample-efficient adaptive algorithm with minimized forward pass.

SELECTED 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%)

Shaocong Ma, Ziyi Chen, Yi Zhou, Kaiyi Ji, Yingbin Liang. *Data Sampling Affects the Complexity of Online SGD over Dependent Data.* **UAI. 2022.** (Acceptance rate: 32.3%)

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.

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