**SHAOCONG MA**

**CONTACT INFORMATION**

**E-mail:** s.ma@utah.edu

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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 BarbaraGPA: 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.