**SHAOCONG MA**

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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

**RELATED PROJECTS**

**Accelerating the Training of Generative Model** Sep. 2021-May. 2022

* Reduce the training time of a GAN-variant neural network on Fashion-MNIST by 17%.
* Related paper (published on IEEE ISIT 2022): <https://arxiv.org/abs/2112.11663>
* Codes: <https://github.com/mshaocong/wasserstein_robust_model>

**Training LoRA (Low-Rank Adaptation) of Stable Diffusion Model** Feb. 2023-Apr. 2023

* Trained four LoRA models and published them on [civitai.com](https://civitai.com/user/HAACHAMACHAMA/models), garnering over 2k downloads.

**INTERNSHIP**

**Student Intern** May. 2022-Aug. 2022

Lawrence Livermore National Security

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

**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.

**OTHER EXPERIENCES**

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

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