

SHAOCONG MA

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EDUCATION

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

RELATED PROJECTS

Accelerating the Training of Generative Model • 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	Sep. 2021-May. 2022
Training LoRA (Low-Rank Adaptation) of Stable Diffusion Model • Trained four LoRA models and published them on civitai.com , garnering over 2k downloads.	Feb. 2023-Apr. 2023

INTERNSHIP

Student Intern Lawrence Livermore National Security	May. 2022-Aug. 2022
• Developed a backpropagation-free training algorithm for a GNN containing non-differentiable modules.	

SELECTED PUBLICATIONS

Shaocong Ma, Yi Zhou. <i>Understanding the Impact of Model Incoherence on Convergence of Incremental SGD with Random Reshuffle.</i>	ICML 2020.
Shaocong Ma, Yi Zhou, Shaofeng Zou. <i>Variance-Reduced Off-Policy TDC Learning: Non-Asymptotic Convergence Analysis.</i>	NeurIPS 2020.
Shaocong Ma, Ziyi Chen, Yi Zhou, Shaofeng Zou. <i>Greedy-GQ with Variance Reduction: Finite-time Analysis and Improved Complexity.</i>	ICLR 2021.
Shaocong Ma, Ziyi Chen, Yi Zhou, Kaiyi Ji, Yingbin Liang. <i>Data Sampling Affects the Complexity of Online SGD over Dependent Data.</i>	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.