Qianli Shen

✉ shenqianli@u.nus.edu   ✆ +86.17801002949   ⚲ https://shenqianli.github.io
📍 COM3-02-21, 11 Research Link, Singapore 119391

🎓 Education

Peking University, China July 2020
Bachelor of Science(B.S.) in Computer Science

National University of Singapore, Singapore Aug.2021 - present
Doctor of Philosophy(Ph.D.) in Computer Science

🏛 Academic Experience

Undergraduate Researcher at Center for Data Science, Peking University Aug. 2018 – July 2020
Advisor: Prof. Zhanxing Zhu
Research Intern at Flash Lab, School of ISyE, Georgia Tech July 2019 - Oct. 2019
Advisor: Prof. Tuo Zhao

📄 Publications

Memory-Efficient Gradient Unrolling for Large-Scalee Bi-level Optimization
Qianli Shen, Yezhen Wang, Zhouhao Yang, Xiang Li, Haonan Wang, Yang Zhang, Jonathon Scarlett, Zhanxing Zhu, Kenji Kawaguchi
Preprint, 2024

The Stronger the Diffusion Model, the Easier the Backdoor: Data Poisoning to Induce Copyright Breaches Without Adjusting Finetuning Pipeline
Haonan Wang, **Qianli Shen**, Yao Tong, Yang Zhang, Kenji Kawaguchi
BUGS Workshop @ In Advances in Neural Information Processing Systems (NeurIPS), 2023 (Oral)
International Conference on Machine Learning (ICML), 2024

VA3: Virtually Assured Amplification Attack on Probabilistic Copyright Protection for Text-to-Image Generative Models
Xiang Li*, **Qianli Shen***, Kenji Kawaguchi
The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024

PICProp: Physics-Informed Confidence Propagation for Uncertainty Quantification
Qianli Shen, Wai Hoh Tang, Zhun Deng, Apostolos Psaros, Kenji Kawaguchi
In Advances in Neural Information Processing Systems (NeurIPS), 2023

GFlowOut: Dropout with Generative Flow Networks
Dianbo Liu, Moksh Jain, Bonaventure F. P. Dossou, **Qianli Shen**, Salem Lahlou, Anirudh Goyal, Nikolay Malkin, Chris Chinenye Emezue, Dinghuai Zhang, Nadhir Hassen, Xu Ji, Kenji Kawaguchi, Yoshua Bengio
International Conference on Machine Learning (ICML), 2023

Deep Reinforcement Learning with Robust and Smooth Policy
Qianli Shen*, Yan Li*, Haoming Jiang, Zhaoran Wang, Tuo Zhao
International Conference on Machine Learning (ICML), 2020

🔧 Softwares

PRIMAL: A Linear Programming-based Sparse Learning Library in R and Python
Qianli Shen*, Zichong Li*, Yujia Xie, Tuo Zhao

🖥 Teaching

CS6216 - Advanced Topics in Machine Learning, 2022 Fall, TA