JACKY YIBO ZHANG

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EDUCATION

Stanford University   *present*
PhD Student in Computer Science
Advisor: Sanmi Koyejo
Department of Computer Science

University of Illinois at Urbana-Champaign
M.S. in Computer Science   *2022*
Advisor: Sanmi Koyejo
Department of Computer Science

University of Science and Technology of China
B.E. in Computer Science   *2019*
Advisor: Chao Qian
Department of Computer Science and Technology

RESEARCH INTERESTS

Machine Learning: Machine Learning: broadly in understanding and designing machine learning algorithms, especially from a fundamental perspective.
Optimization: non-convex optimization, combinatorial optimization, stochastic optimization, submodular optimization.
Algorithms: approximation algorithms, heuristic algorithms.

PUBLICATIONS & PREPRINTS

* indicates equal contribution.

[1] Xiaojun Xu*, Jacky Y. Zhang*, Evelyn Ma, Danny Son, Oluwasanmi Koyejo, and Bo Li. **Adversarially Robust Models may not Transfer Better: Sufficient Conditions for Domain Transferability from the View of Regularization**.
International Conference on Machine Learning (ICML), 2022.

[2] Kaizhao Liang*, Jacky Y. Zhang*, Boxin Wang, Zhuolin Yang, Oluwasanmi Koyejo, and Bo Li. **Uncovering the Connections Between Adversarial Transferability and Knowledge Transferability**.
International Conference on Machine Learning (ICML), 2021.

[3] Jacky Y. Zhang, Rajiv Khanna, Anastasios Kyrillidis, and Oluwasanmi Koyejo. **Bayesian Coresets: Revisiting the Nonconvex Optimization Perspective**.
International Conference on Artificial Intelligence and Statistics (AISTATS), 2021. (Oral)

[4] Maohao Shen, Jacky Y. Zhang, Leihao Chen, Weiman Yan, Neel Jani, Brad Sutton, and Oluwasanmi Koyejo. **Labeling Cost-Sensitive Batch Active Learning for Brain Tumor Segmentation**.
International Symposium on Biomedical Imaging (ISBI), 2021.

[5] Xiaoyang Wang, Bo Li, Yibo Zhang, Bhavya Kailkhura, and Klara Nahrstedt. **Robusta: Robust AutoML for Feature Selection via Reinforcement Learning**
AAAI 2021 Workshop Towards Robust, Secure and Efficient Machine Learning.

[6] Jacky Y. Zhang, Rajiv Khanna, Anastasios Kyrillidis, and Oluwasanmi Koyejo. **Learning Sparse Distributions using Iterative Hard Thresholding**.
Conference on Neural Information Processing Systems (NeurIPS), Vancouver, Canada, 2019.

[7] Yibo Zhang, Chao Qian, and Ke Tang. **Maximizing Monotone DR-submodular Continuous Functions by Derivative-free Optimization**.
Preprint: arXiv 1810.06833, 2018.

[8] Chao Qian, Yibo Zhang, Ke Tang, and Xin Yao. **On Multiset Selection with Size Constraints**.
AAAI Conference on Artificial Intelligence (AAAI), New Orleans, LA, 2018.

SCHOLARSHIP AND AWARDS

Guo Moruo Scholarship *2019*
Highest Graduation Distinction at the University of Science and Technology of China.

Outstanding Student Scholarship Golden Award *2017*

Outstanding Student Scholarship Golden Award *2016*