

JACKY YIBO ZHANG

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EDUCATION

University of Illinois at Urbana-Champaign

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, sub-modular 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 Core-sets: 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	<i>2019</i>
Highest Graduation Distinction at the University of Science and Technology of China.	
Outstanding Student Scholarship Golden Award	<i>2017</i>
Outstanding Student Scholarship Golden Award	<i>2016</i>