

# JACKY YIBO ZHANG

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## EDUCATION

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**University of Illinois at Urbana-Champaign**

2019 - present

PhD Student in Computer Science

Advisor: Sanmi Koyejo

Department of Computer Science

**University of Science and Technology of China**

2015 - 2019

B.E. in Computer Science

Advisor: Chao Qian

Department of Computer Science and Technology

## RESEARCH INTERESTS

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**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.

## PREPRINTS

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- 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.** *Preprint: arXiv 2202.01832*. 2022.
- Yibo Zhang, Chao Qian, and Ke Tang. **Maximizing Monotone DR-submodular Continuous Functions by Derivative-free Optimization.** *Preprint: arXiv 1810.06833*, 2018.

## PUBLICATIONS

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\* indicates equal contribution.

- [1] 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.
- [2] 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)
- [3] 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.
- [4] 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*.

- [5] 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.
- [6] 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

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<b>Guo Moruo Scholarship</b>	<i>2019</i>
Highest Graduation Distinction at the University of Science and Technology of China.	
<b>Outstanding Student Scholarship Golden Award</b>	<i>2017</i>
<b>Outstanding Student Scholarship Golden Award</b>	<i>2016</i>