

# 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 (summa cum laude)

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.

## PUBLICATIONS

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\* indicates equal contribution.

- [1] 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)
- [2] 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.
- [3] 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*.
- [4] 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.
- [5] 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.

## PREPRINTS

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- [6] Kaizhao Liang\*, Jacky Y. Zhang\*, Oluwasanmi Koyejo, and Bo Li. **Does Adversarial Transferability Indicate Knowledge Transferability?** *Preprint: arXiv 2006.14512*, 2020.
- [7] Yibo Zhang, Chao Qian, and Ke Tang. **Maximizing Monotone DR-submodular Continuous Functions by Derivative-free Optimization.** *Preprint: arXiv 1810.06833*, 2018.

## EXPERIENCE

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**Tencent WeChat**  
Research Intern

*Shenzhen, China*  
*Summer 2019*

## SCHOLARSHIP AND AWARDS

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### **Guo Moruo Scholarship**

*2018*

Highest honor (Top 1%) for undergraduate students in USTC.

### **Outstanding Student Scholarship Golden Award**

*2017*

### **Outstanding Student Scholarship Golden Award**

*2016*