

YIBO JACKY ZHANG

yiboz@stanford.edu

<https://yiboz.me>

EDUCATION

Stanford University

PhD Student in Computer Science
Advisor: Sanmi Koyejo
Department of Computer Science

present

University of Illinois at Urbana-Champaign

M.S. in Computer Science
Department of Computer Science

2022

University of Science and Technology of China

B.E. in Computer Science
Department of Computer Science and Technology

2019

RESEARCH INTERESTS

I'm interested in solving fundamental AI problems through theoretical research that leads to real-world solutions. Currently, I work on learning in systems composed of interacting components that evolve dynamically and stochastically. See my selected works for more details.

SELECTED PUBLICATIONS & PREPRINTS

- [1] Yibo Jacky Zhang, Sanmi Koyejo. **A Framework for Objective-Driven Dynamical Stochastic Fields**
Preprint, 2025.
- [2] Xiangwen Wang*, Yibo Jacky Zhang*, Zhoujie Ding, Katherine Tsai, Sanmi Koyejo. **Aligning Compound AI Systems via System-level DPO**
Conference on Neural Information Processing Systems (NeurIPS), 2025.

ALL PUBLICATIONS & PREPRINTS

* indicates equal contribution.

- [1] Yibo Jacky Zhang, Sanmi Koyejo. **A Framework for Objective-Driven Dynamical Stochastic Fields**
Preprint, 2025.
- [2] Xiangwen Wang*, Yibo Jacky Zhang*, Zhoujie Ding, Katherine Tsai, Sanmi Koyejo. **Aligning Compound AI Systems via System-level DPO**
Conference on Neural Information Processing Systems (NeurIPS), 2025.
- [3] Boxin Wang, Yibo Jacky Zhang, Yuan Cao, Bo Li, H. Brendan McMahan, Sewoong Oh, Zheng Xu, Manzil Zaheer. **Can Public Large Language Models Help Private Cross-device Federated Learning?**
NAACL, 2024.
- [4] Enyi Jiang*, Yibo Jacky Zhang*, Oluwasanmi Koyejo. **Principled Federated Domain Adaptation: Gradient Projection and Auto-Weighting.**
International Conference on Learning Representations (ICLR), 2024.

- [5] Maohao Shen*, Bowen Jiang*, Jacky Y. Zhang*, Oluwasanmi Koyejo. **Batch Active Learning from the Perspective of Sparse Approximation.**
NeurIPS 2022 Workshop on Human in the Loop Learning, 2022.
- [6] 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.
- [7] 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.
- [8] 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)
- [9] 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.
- [10] 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.
- [11] 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.
- [12] Yibo Zhang, Chao Qian, and Ke Tang. **Maximizing Monotone DR-submodular Continuous Functions by Derivative-free Optimization.**
Preprint: arXiv 1810.06833, 2018.
- [13] 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.