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2022 - Present

? Iblaoke

♦ Iblaoke.github.io

Education

PhD, Computer Science West Lafayette, IN, USA *Purdue University*

Advisor: Rugi Zhang

2018 - 2022 **BE, Computer Science and Technology** Tianjin University Tianjin, China

Advisor: Changging Zhang

GPA: 3.8/4.0

Experiences

Purdue University Sept. 2022 – Present

Research Assistant, Advisor: Rugi Zhang LLM alignment, Bayesian deep learning

University of Illinois Urbana-Champaign *May 2021 – Nov. 2021*

Research Intern, Mentor: Hanghang Tong

Graph representation learning

Jan. 2021 - Feb. 2021 **Institute of Computing Technology, Chinese Academy of Sciences**

Research Intern, Mentor: Shuhui Wang

Video object detection

Tianjin University Sept. 2020 - Dec. 2021

Research Assistant, Advisor: Changging Zhang

Trustworthy machine learning

Research Interests

I am interested in the robustness and interpretability of machine-learning models/algorithms in the real world. I focus on the alignment of large language models, the generalization of sampling algorithms, and the learning frameworks for biased data distributions.

Publications

Making Reliable and Flexible Decisions in Long-tailed Classification

Transactions on Machine Learning Research (TMLR) Bolian Li, Rugi Zhang

Stochastic Steepest Descent with Acceleration for ℓ_v -Smooth Non-Convex Optimization

Preprint, under review

Xinyu Luo*, Site Bai*, Bolian Li*, Petros Drineas, Ruqi Zhang, Brian Bullins

ETA: Evaluating Then Aligning Safety of Vision Language Models at Inference Time

International Conference on Learning Representations (ICLR 2025) Yi Ding, Bolian Li, Ruqi Zhang

Cascade Reward Sampling for Efficient Decoding-Time Alignment

Preprint, under review Bolian Li*, Yifan Wang*, Ananth Grama, Ruqi Zhang

Entropy-MCMC: Sampling from Flat Basins with Ease

International Conference on Learning Representations (ICLR 2024) *Bolian Li*, Ruqi Zhang

Long-tailed Classification from a Bayesian-decision-theory Perspective

Symposium on Advances in Approximate Bayesian Inference (AABI 2023) *Bolian Li*, Rugi Zhang

Trustworthy Long-tailed Classifications

The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022) *Bolian Li*, Zongbo Han, Haining Li, Huazhu Fu, Changqing Zhang

Graph Communal Contrastive Learning

The Web Conference (WWW 2022), Oral Presentation *Bolian Li*, Baoyu Jing, Hanghang Tong

Services

Reviewer ICML 2025, NeurIPS 2024; ICLR 2025; AISTATS 2024, 2025; UAI 2024, 2025;

SPIGM 2023, 2024; NextGenAISafety 2024

Teaching Assistant CS 57800; CS 38003; CS 17600

Awards

Tan Xuguang Alumni Scholarship, <i>Tianjin University</i>	2020
Tianjin University Vision Education Fund, <i>Tianjin University</i>	2019