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• lblaoke.github.io

Education

PhD, Computer Science

2022 – Present

Purdue University

West Lafayette, IN, USA

Advisor: Rugi Zhang

BE, Computer Science and Technology

2018 - 2022

Tianjin University

Tianjin, China

Advisor: Changqing Zhang

GPA: 3.8/4.0

Experiences

Amazon.com, Inc.

May 2025 – Aug. 2025

Applied Scientist Intern, working with Rui Song, Sheng Wang, Hengrui Cai, and Qingkai Zeng

Reward Modeling Generalization

University of Illinois Urbana-Champaign

May 2021 - Nov. 2021

Research Intern, working with Hanghang Tong

Graph Representation Learning

Institute of Computing Technology, Chinese Academy of Sciences

Jan. 2021 – Feb. 2021

Research Intern, working with Shuhui Wang Video Object Detection

Research Interests

I am interested in the post-training of large language models (LLMs). Recently, I focus on the sampling efficiency of post-training algorithms. I am also widely interested in safety alignment, reward generalization, Bayesian deep learning, and data imbalance.

Publications

Reward-Shifted Speculative Sampling Is An Efficient Test-Time Weak-to-Strong Aligner

Conference on Empirical Methods in Natural Language Processing (EMNLP 2025) Bolian Li, Yanran Wu, Xinyu Luo, Ruqi Zhang

More is Less: The Pitfalls of Multi-Model Synthetic Preference Data in DPO Safety Alignment

Conference on Language Modeling (COLM 2025)

Yifan Wang, Runjin Chen, Bolian Li, David Cho, Yihe Deng, Ruqi Zhang, Tianlong Chen, Zhangyang Wang, Ananth Grama, Junyuan Hong

Cascade Reward Sampling for Efficient Decoding-Time Alignment

Conference on Language Modeling (COLM 2025)

Bolian Li*, Yifan Wang*, Anamika Lochab*, Ananth Grama, Ruqi Zhang

Bayesian Computation in Deep Learning

MCMC Handbook Wenlong Chen*, *Bolian Li**, Ruqi Zhang, Yingzhen Li

Stacey: Promoting Stochastic Steepest Descent via Accelerated ℓ_p -Smooth Nonconvex Optimization

International Conference on Machine Learning (ICML 2025)

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

Making Reliable and Flexible Decisions in Long-tailed Classification

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

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

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