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(7) Iblaoke

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Education

2022 - Present **PhD, Computer Science** Purdue University West Lafavette, IN, USA

Advisor: Rugi Zhang

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

Advisor: Changging Zhang

GPA: 3.8/4.0

Experiences

Amazon.com, Inc. May 2025 – Aug. 2025

Applied Scientist Intern

Preference Learning 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 process in post-training algorithms. I am also widely interested in safety alignment, reward generalization, Bayesian deep learning, and data imbalance.

Publications

Structure-R1: Dynamically Leveraging Structural Knowledge in LLM Reasoning through Reinforcement Learning

Preprint, under review

Junlin Wu, Xianrui Zhong, Jiashuo Sun, Bolian Li, Bowen Jin, Jiawei Han, Qingkai Zeng

DRIFT: Learning from Abundant User Dissatisfaction in Real-World Preference Learning

Preprint, under review

Yifan Wang, Bolian Li, Junlin Wu, Zhaoxuan Tan, Zheli Liu, Ruqi Zhang, Ananth Grama, Qingkai Zeng

From Personal to Collective: On the Role of Local and Global Memory in LLM Personalization

Preprint, under review

Zehong Wang, Junlin Wu, ZHaoxuan Tan, Bolian Li, Xianrui Zhong, Zheli Liu, Qingkai Zeng

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, Rugi 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_n -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*, Ruqi 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

Guest Lecturer CS 57800

Teaching Assistant CS 57800; CS 38003; CS 17600

Awards