

# Jiazheng Li

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## Education

### Beijing Institute of Technology

B.S. in Artificial Intelligence at the School of Computer Science

- GPA: 3.7/4.0

Sep 2021 – Jun 2025

### Tsinghua University

Ph.D. in Computer Science at College of Artificial Intelligence

- Advisor: Jingzhao Zhang

Sep 2025 – Current

## Research Interests

My research focuses on machine learning, both on the theoretical and empirical sides. On the theoretical side, I enjoy conducting various experiments and constructing appropriate and realistic theoretical frameworks based on the results. On the empirical side, I have hands-on experience with supervised fine-tuning of large-scale LLMs and reinforcement learning. Recently, I have been particularly interested in the optimization aspect of LLM pre-training and the RL aspect of post-training.

I have worked on topics including:

- Scalable Model Merging.
- Optimization Algorithm for LLM.
- Training Dynamics of Neural Networks.
- Reasoning Large Language Model.
- Multi turn Agent.

## Experience

### Research Intern

RL Lab, Ant Group

Beijing, China

Apr 2025 – Sep 2025

- Improved Reasoning LLM with RL, boosting a 1.5B model's AIME24 and AIME25 scores to 72.5 and 62.3, up over 10 points.
- Attempted to enhance Reasoning LLM using the approach of multi-turn agent.

### Research Intern

Seed, Bytedance

Beijing, China

Nov 2025 – Current

## Publications

### QuestA: Expanding Reasoning Capacity in LLMs via Question Augmentation

ICLR 2026

*Jiazheng Li, Hongzhou Lin, Hong Lu, Kaiyue Wen, Zaiwen Yang, Jiaxuan Gao, Yi Wu, Jingzhao Zhang*

### Data Mixing Can Induce Phase Transitions in Knowledge Acquisition

Spotlight, NIPS 2025

Xinran Gu, Kaifeng Lyu, *Jiazheng Li, Jingzhao Zhang*

### Scalable Model Merging with Progressive Layer-wise Distillation

Poster, ICML 2025

Jing Xu, *Jiazheng Li, Jingzhao Zhang*

*Forty-Second International Conference on Machine Learning*

### NeuralDB: Scaling Knowledge Editing in LLMs to 90,000 Facts with Neural KV Database

ICLR 2026

Weizhi Fei, Hao Shi, Jing Xu, Jingchen Peng, *Jiazheng Li, Jingzhao Zhang, Bo Bai, Wei Han, Zhenyuan Chen, Xueyan Niu*

## Projects

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### What-s-up Chat Software Development ↗

- Developed a Chat Software.
- Backend communication.
- Functional testing.
- Debugging.

## Technologies

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**Languages:** C++, C, Java, Python, SQL, LaTeX, Typst.