

Ming Li

Personal Page | Google Scholar | Semantic Scholar | Github | minglii@umd.edu

EDUCATION

University of Maryland

Ph.D. in Computer Science, Supervisor: Prof. Tianyi Zhou

Maryland, US

Aug. 2023 – present

Texas A&M University

M.S. in Computer Science, Supervisor: Prof. Ruihong Huang

Texas, US

Sep. 2021 – May 2023

Xi'an Jiaotong University

B.S. in Computer Science

Xi'an, China

Aug. 2016 – June 2020

RESEARCH & INTERNSHIP EXPERIENCE

Amazon – Applied Scientist Internship

- Reinforcement learning on multi-turn conversation optimization for LLMs

May 2025 – present, San Jose, US

Microsoft – Research Internship

- Interpretability and efficient collaborative decoding systems for LLMs

Feb. 2025 – May 2025, remote, US

Adobe – Research Scientist/Engineer Internship

- Visual grounding and instruction fine-tuning for Multimodal LLMs

May 2024 – Nov. 2024, San Jose, US

Ping An Technology – Research Internship

- Automatic data selection for instruction tuning on LLMs
- Black-Box LLMs for Retrieval Question Answering

May 2023 – Aug. 2023, Shenzhen, China

SIAT, Chinese Academy of Science – Research Assistant

- Supervisor: Prof. Yu Qiao
- Focus: Computer Vision, Scene Text Recognition and Text Detection

Jun. 2019 – Jun. 2021, Shenzhen, China

SELECTED PUBLICATIONS

- [1] Ming Li, Yanhong Li, Tianyi Zhou. **What Happened in LLMs Layers when Trained for Fast vs. Slow Thinking: A Gradient Perspective.** [\[ACL'25 Oral\]](#)
- [2] Ming Li, Pei Chen, Chenguang Wang, Hongyu Zhao, Yijun Liang, Yupeng Hou, Fuxiao Liu, Tianyi Zhou. **Mosaic-IT: Free Compositional Data Augmentation Improves Instruction Tuning.** [\[ACL'25\]](#)
- [3] Zhixun Chen*, Ming Li*, Yuxuan Huang, Yali Du, Meng Fang, Tianyi Zhou. **ATLaS: Agent Tuning via Learning Critical Steps.** [\[ACL'25\]](#)
- [4] Ming Li, Han Chen, Chenguang Wang, Dang Nguyen, Dianqi Li, Tianyi Zhou. **Ruler: Improving llm controllability by rule-based data recycling.** [\[NAACL'25\]](#)
- [5] Hongyu Zhao, Ming Li, Lichao Sun, Tianyi Zhou. **BenTo: Benchmark Task Reduction with In-Context Transferability.** [\[ICLR'25\]](#)
- [6] Ming Li, Yong Zhang, Shwai He, Zhitao Li, Hongyu Zhao, Jianzong Wang, Ning Cheng, Tianyi Zhou. **Superfiltering: Weak-to-Strong Data Filtering for Fast Instruction-Tuning.** [\[ACL'24\]](#)
- [7] Ming Li, Lichang Chen, Jiuhai Chen, Shwai He, Jiuxiang Gu, Tianyi Zhou. **Selective Reflection-Tuning: Student-Selected Data Recycling for LLM Instruction-Tuning.** [\[ACL'24\]](#)
- [8] Ming Li, Jiuhai Chen, Lichang Chen, Tianyi Zhou. **Can LLMs Speak For Diverse People? Tuning LLMs via Debate to Generate Controllable Controversial Statements.** [\[ACL'24\]](#)
- [9] Ming Li, Yong Zhang, Zhitao Li, Jiuhai Chen, Lichang Chen, Ning Cheng, Jianzong Wang, Tianyi Zhou, Jing Xiao. **From Quantity to Quality: Boosting LLM Performance with Self-Guided Data Selection for Instruction Tuning.** [\[NAACL'24\]](#)
- [10] Haoyan Yang, Zhitao Li, Yong Zhang, Jianzong Wang, Ning Cheng, Ming Li, Jing Xiao. **PRCA: Fitting Black-Box Large Language Models for Retrieval Question Answering via Pluggable Reward-Driven Contextual Adapter.** [\[EMNLP'23\]](#)
- [11] Ming Li, Bin Fu, Han Chen, Junjun He, Yu Qiao. **Dual relation network for scene text recognition.** [\[IEEE Transactions on Multimedia\]](#)
- [12] Ming Li, Bin Fu, Zhengfu Zhang, Yu Qiao. **Character-aware sampling and rectification for scene text recognition.** [\[IEEE Transactions on Multimedia\]](#)

PROFESSIONAL SERVICE

Area Chair: EMNLP'25

Reviewer: ACL, EMNLP, NAACL, ICLR, ICML, NeurIPS