

Yi Ding



✉ ding432@purdue.edu

📞 (+1) 765-694-9620

EDUCATION

- Purdue University** IN, USA
Ph.D. in Computer Science Aug. 2025 – 2030 (Expected)
- Advisor: Dr. Ruqi Zhang
- Tianjin University** Tianjin, China
B.S. in Data Science and Big Data Technology, School of Mathematics Aug. 2021 – Jun. 2025
- Advisor: Prof. Bing Cao & Prof. Qinghua Hu

RESEARCH INTEREST

My primary research goal is to develop reliable and efficient machine learning models/algorithms to address real-world challenges. With this vision, my work focuses on steering Foundation Models (FMs), including LLMs, VLMs, and diffusion models toward human preference and improved reasoning. Currently, my research interests include:

LLM Post-Training

- LLM/VLMs Alignment, RLHF, Reasoning, Self-Improving LLM/VLMs

Trustworthy AI

- AI Safety, Fairness, Uncertainty, etc.

Multimodal Learning

- Multimodal Fusion, Imbalanced Multimodal Learning

PUBLICATIONS

(* denotes equal contribution)

[P1] SafeWork-R1: Coevolving Safety and Intelligence under the AI-45° Law

Shanghai AI Lab, …, Yi Ding, [100+ Authors]

Technical Report

[C1] Rethinking Bottlenecks in Safety Fine-Tuning of Vision Language Models

Yi Ding*, Lijun Li*, Bing Cao, Jing Shao

International Conference on Learning Representations (ICLR 2026)

[C2] Sherlock: Self-Correcting Reasoning in Vision-Language Models

Yi Ding, Ruqi Zhang

Neural Information Processing Systems (NeurIPS 2025)

[C3] Visual Contextual Attack: Jailbreaking MLLMs with Image-Driven Context Injection

Ziqi Miao*, Yi Ding*, Lijun Li, Jing Shao

Empirical Methods in Natural Language Processing Main Conference (EMNLP 2025)

[C4] ETA: Evaluating Then Aligning Safety of Vision Language Models at Inference Time

Yi Ding, Bolian li, Ruqi Zhang

International Conference on Learning Representations (ICLR 2025)

[C5] Test-Time Dynamic Image Fusion

Bing Cao (Advisor), Yinan Xia*, Yi Ding*, Changqing Zhang, Qinghua Hu

Neural Information Processing Systems (NeurIPS 2024)

[C6] Predictive Dynamic Fusion

Bing Cao (Advisor), Yinan Xia*, Yi Ding*, Changqing Zhang, Qinghua Hu

International Conference on Machine Learning (ICML 2024)

AWARDS

NSF ACCESS Discover Project Award	2025-2026
· LLM Post-Training	

RESEARCH EXPERIENCE

RZ-Lab, Purdue University	IN, USA
· Research Intern, Advised by Dr. Ruqi Zhang	May 2024–May 2025
Open Trust Lab, Shanghai AI Laboratory	Beijing, China
· Research Intern, Advised by Dr. Lijun Li	Dec. 2024–Mar. 2025

MLDM Lab, Tianjin University	Tianjin, China
· Research Intern, Advised by Prof. Bing Cao and Prof. Qinghua Hu	Sep. 2023–Dec. 2024

SKILL

Languages: Chinese Mandarin (Native), English (TOEFL 102(22))

Research Abilities: Proficient in coding: Python, L^AT_EX, MATLAB; Enjoys mathematical derivations; Solid foundation in mathematics and statistics.

SERVICE

Conference Reviewer

- ICML 2026; NeurIPS 2025; ICLR 2025,2026; ARR 2025 May