

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, \LaTeX , MATLAB; Enjoys mathematical derivations; Solid foundation in mathematics and statistics.

SERVICE

- **Conference Reviewer**
- ICML 2026; NeurIPS 2025; ICLR 2025,2026; ARR 2025 May