

Xiaofeng Lin

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Availability: May–Dec 2026

Education

Boston University

Ph.D. in Systems Engineering

Boston, MA

Aug 2023 – Dec 2027

University of Michigan, Ann Arbor

M.S. in Robotics

Ann Arbor, MI

Tianjin University

B.Eng. in Engineering Mechanics

Tianjin, China

Sep 2016 – Jul 2020

Publications

[1]: **Xiaofeng Lin***, Sirou Zhu*, Yilei Chen, Mingyu Chen, Hejian Sang, Ioannis Paschalidis, Zhipeng Wang, Aldo Pacchiano and Xuezhou Zhang. Scaling In-Context Online Learning Capability of LLMs via Cross-Episode Meta-RL. *Under Review*. [\[paper\]](#)[\[code\]](#)

[2]: **Xiaofeng Lin***, Hejian Sang*, Zhipeng Wang and Xuezhou Zhang. Debunk the myth of SFT Generalization. *Under Review*. [\[paper\]](#)[\[code\]](#)

[3]: **Xiaofeng Lin** and Xuezhou Zhang. Efficient Reinforcement Learning in Probabilistic Reward Machines. In *The Thirty-Ninth AAAI Conference on Artificial Intelligence (AAAI)*, 2025. **Oral Presentation**. [\[paper\]](#)[\[code\]](#)

[4]: Zian Ning, Yin Zhang, **Xiaofeng Lin** and Shiyu Zhao. A Real-to-Sim-to-Real Approach for Vision-Based Autonomous MAV-Catching-MAV. In *Unmanned Systems*, 2024. [\[paper\]](#)

[5]: Zirui Xu*, **Xiaofeng Lin*** and Vasileios Tzoumas. Leveraging Untrustworthy Commands for Multi-Robot Coordination in Unpredictable Environments: A Bandit Submodular Maximization Approach. In *American Control Conference (ACC)*, 2024. [\[paper\]](#)[\[code\]](#)

[6]: Zirui Xu, **Xiaofeng Lin** and Vasileios Tzoumas. Bandit Submodular Maximization for Multi-Robot Coordination in Unpredictable and Partially Observable Environments. In *Robotics: Science and Systems (RSS)*, 2023. [\[paper\]](#)[\[code\]](#)

Research Experience

Boston University

Research Assistant

Advisor: Prof. Xuezhou Zhang

Sept 2023 – Current

- **Scaling ICL of LLM Agents:** Developed a cross-episode, multi-task meta-RL framework that trains LLMs to learn from interaction experience in-context, improving online decision-making and generalizing to unseen environments [1].
- **SFT Generalization:** Identified frozen-prompt artifacts; showed prompt diversity + CoT enable SFT generalization to unseen tasks/harder regime [2].
- **RL in Probabilistic Reward Machines:** Developed the first efficient PRM-RL algorithm; established improved regret bounds vs prior deterministic-RM work; introduced a new simulation lemma for non-Markovian rewards [3].

Honors & Awards

BU Systems Engineering PhD Travel Award

Feb 2025

BU Distinguished Systems Engineering Fellowship

Sept 2023

Outstanding Graduate of Tianjin University (Top 10%)

May 2020

Technical Skills

Programming: Python; C++; MATLAB; Java/Android; ROS; MAVLink

Deep Learning and LLM-Training: PyTorch; HuggingFace Ecosystem; Verl; Rllm; Verl-Agent