

Yu Li

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Education

George Washington University
Ph.D. in Electrical and Computer Engineering, GPA: 4.0/4.0
 Advisor: [Prof. Tian Lan ↗](#)

Washington, D.C.
Aug 2025 – Present

Wuhan University, Hongyi Honor College
B.Eng. in Microelectronics Science and Technology, GPA: 3.87/4.0
 Advisor: [Prof. Cheng Lei ↗](#)

Wuhan, China
Sept 2021 – Jun 2025

Research Interests

My research focuses on **LLM post-training** and **agent policy learning**, with specific interests in: (i) parameter-efficient fine-tuning (LoRA), (ii) preference alignment and reasoning for LLMs, (iii) agent reasoning, planning, and policy optimization.

Preprints & Under Review

[1] **Right Meets Wrong: Bilateral Context Conditioning with Reward-Confidence Correction for GRPO**

[Yu Li](#), Tian Lan, Zhengling Qi
Under review by International Conference on Machine Learning (ICML), 2026

[2] **INSPO: Unlocking Intrinsic Self-Reflection for LLM Preference Optimization ↗**

[Yu Li](#), Tian Lan, Zhengling Qi
Under review by International Conference on Machine Learning (ICML), 2026

[3] **Reason in Chains, Learn in Trees: Self-Rectification and Grafting for Multi-turn Agent Policy Optimization**

[Yu Li](#), Sizhe Tang, Tian Lan
Under review by Annual Meeting of the Association for Computational Linguistics (ACL), 2026

[4] **MultiRefine-V: Multi-Turn Reinforcement Learning for Enhancing Verilog Code Synthesis**

Qiu Feng Li, [Yu Li](#), Shu Hong, Tian Lan, Weidong Cao
Under review by Design Automation Conference (DAC), 2026

[5] **CRAFT-LoRA: Content-Style Personalization via Rank-Constrained Adaptation and Training-Free Fusion**

[Yu Li](#), Yujun Cai, Chi Zhang
Under review by IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026. Review: 5/4/2

[6] **Prada: Black-Box LLM Adaptation with Private Data on Devices ↗**

Ziyao Wang, Yexiao He, Zheyu Shen, [Yu Li](#), Guoheng Sun, Myungjin Lee, Ang Li
arXiv preprint, 2025

Publications

C=Conference, J=Journal, †=Equal Contribution

[C.1] **Calibrating and Rotating: A Unified Framework for Weight Conditioning in PEFT**

Da Chang, Peng Xue, [Yu Li](#), Yongxiang Liu, Pengxiang Xu, Shixun Zhang
The 40th Annual AAAI Conference on Artificial Intelligence (AAAI), 2026

[C.2] **KG-SAM: Injecting Anatomical Knowledge into Segment Anything Models via Conditional Random Fields**

[Yu Li](#), Da Chang, Xi Xiao
IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2026

[C.3] **ACDZero: Graph-Embedding-Based Tree Search for Mastering Automated Cyber Defense**

[Yu Li](#)†, Sizhe Tang†, Rongqian Chen, Fei Xu Yu, Guangyu Jiang, Mahdi Imani, Nathaniel D. Bastian, Tian Lan
Intelligent Cloud Computing and Networking Workshop @ INFOCOM, 2026

[C.4] **DLoRA-TrOCR: Mixed Text Mode Optical Character Recognition Based On Transformer**

[Yu Li](#)†, Da Chang†
International Conference on Neural Information Processing (ICONIP), 2024

[C.5] **ECG Classification with Dual Models: XGBoost Voting and Deep Learning with Attention**

[Yu Li](#), Yunhao Hu, Jie Chen, Binghao Wang, Wei Liu *et al.*
International Conference on Advanced Computer Technology and Electronics, 2023

[J.1] Dual branch SAM-Transformer Fusion Network for Accurate Breast Ultrasound Image Segmentation

Yu Li, Jin Huang, Du Wang, Liye Mei, Cheng Lei et al.

Medical Physics, 2025

[J.2] SfMDiffusion: Self-supervised Monocular Depth Estimation in Endoscopy Based on Diffusion Models

Yu Li, Da Chang, Jin Huang, Du Wang, Liye Mei, Cheng Lei et al.

International Journal of Computer Assisted Radiology and Surgery, 2025

[J.3] Local Optimum Time-Reassigned Synchrosqueezing Transform for Bearing Fault Diagnosis

Site Lv, Shan Zeng, Yu Li, Ke Yang, Yulong Chen

IEEE Sensors Journal, 2024

Selected Awards & Honors

- **Innova International Exchange Scholarship**, 6 recipients university-wide, ¥70,000. 2024
- **Innova Excellence Scholarship**, Top 3%, ¥10,000, twice. 2023, 2024
- **First-Class Scholarship**, Top 5%, ¥3,000, three times. 2022, 2023, 2024

Academic Services

- **Conference Reviewer:** ICML'26, CVPR'26, ICLR'26, AAAI'26, ICASSP'26
- **Journal Reviewer:** Neurocomputing, Frontiers in Oncology, IEEE Transactions on Networking

Skills

- **Languages:** English (TOEFL 105), Chinese (Native), Japanese (Basic)
- **ML/LLM Stack:** PyTorch, DeepSpeed, Flash Attention, vLLM, OpenRLHF, VERL, TRL
- **Tools & Platforms:** Linux/Ubuntu, Docker, Git, Weights & Biases, Cadence