

Yu Li

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Education

George Washington University

Ph.D. Candidate in Electrical and Computer Engineering, GPA: 4.0/4.0

Advisor: [Prof. Tian Lan](#) [🔗](#); Mentor: [Prof. Zhengling Qi](#) [🔗](#)

Washington, D.C.

*Aug 2025 – May 2029
(expected)*

Wuhan University, Hongyi Honor College

B.Eng. in Microelectronics Science and Technology, GPA: 3.87/4.0

Advisor: [Prof. Cheng Lei](#) [🔗](#) & [Prof. Wei Liu](#) [🔗](#)

Wuhan, China

Sept 2021 – Jun 2025

Research Interests

My research focuses on **LLM post-training**, **agent policy learning**, and **generative AI**. Specific topics include LoRA fine-tuning, preference optimization, reasoning, agentic RL, and multimodal in-context learning.

Preprints & Under Review

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

[Yu Li](#), [Tian Lan](#), [Zhengling Qi](#)

Under review at 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 at 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 at Annual Meeting of the Association for Computational Linguistics (ACL), 2026. OA:3/3.5/2.5

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

[Qiufeng Li](#), [Yu Li](#), [Shu Hong](#), [Tian Lan](#), [Weidong Cao](#)

Under review at Design Automation Conference (DAC), 2026

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

[Yu Li](#), [Yujun Cai](#), [Chi Zhang](#)

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 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] 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.5] DLoRA-TrOCR: Mixed Text Mode Optical Character Recognition Based On Transformer

Yu Li†, Da Chang†

International Conference on Neural Information Processing (ICONIP), 2024

[C.6] 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

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- **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

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

Skills

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- **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