Yuting Li

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Education		
China Three Gorges University		2022 – Present
• M.Eng. in Computer Science		
China Three Gorges University		2018 – 2022
• B.Eng. in Electronic Information Engineering	3	
Academic Papers		
SURE: SUrvey REcipes for building reliable a <i>Yuting Li</i> , Yingyi Chen, Xuanlong Yu, Dexiong	and robust deep networks. Chen, Xi Shen	CVPR 2024 (Accepted)
HTR-VT: Handwritten Text Recognition with Vision Transformer. Yuting Li, Dexiong Chen, Tinglong Tang, Xi Shen		Pattern Recognition 2025 SCI Q1 (Accepted)
Vision Matters: Simple Visual Perturbations Can Boost Multimodal Math Reasoning.		NeurIPS 2025 (Under Review)
Yuting Li , Lai Wei, Kaipeng Zheng, Jingyuan H Weiran Huang	luang, Linghe Kong, Lichao Sun,	
IDER: IDempotent Experience Replay for Re Zhanwang Liu*, <i>Yuting Li*(Project lead)</i> , Hao Lichao Sun, Weiran Huang	liable Continual Learning. yuan Gao, Yexin Li, Linghe Kong,	NeurIPS 2025 (Under Review)
Unsupervised Post-Training for Multi-Modal LLM Reasoning via GRPO. Lai Wei, <i>Yuting Li</i> , Chen Wang, Yue Wang, Linghe Kong, Weiran Huang, Lichao Sun		NeurIPS 2025 (Under Review)
Advancing Multimodal Reasoning via Reinforcement Learning with Cold Start. Lai Wei, <i>Yuting Li</i> , Kaipeng Zheng, Chen Wang, Yue Wang, Linghe Kong, Lichao Sun, Weiran Huang		NeurIPS 2025 (Under Review)
Agentic Robot: A Brain-Inspired Framework for Vision-Language-Action Models in Embodied Agents.		NeurIPS 2025 (Under Review)
Zhejian Yang, Yongchao Chen, Xueyang Zhou, <i>Yuting Li</i> , Yu Zhang, Pan Zhou, Hechang Chen	Jiangyue Yan, Dingjie Song, Yinuo Liu, , Lichao Sun	
Research Experience		
Continual Learning in real-world scenarios	Comparised for Deef Misinger Houses	Sep 2024 – Present
 Proposed a novel experience replay framework continual learners. 	ork using the idempotent property to im	prove the reliability of
• Introduced a new benchmark for real-world	continual learning along with a high-qu	ality open-source codebase.
Multi-modal LLM reasoning		Sep 2024 – Present
MIFA Lab, Shanghai Jiao Tong University	Supervised by Prof. Weiran Huang	Ĩ
• Designed a simple visual perturbation frame such as SFT, DPO, and GRPO.	work that is easily integrated into exist	ing post-training pipelines
• Developed a stable and scalable online RL al supervision.	gorithm enabling MLLMs to self-improv	e without external
• Conducted a comprehensive study on enhance	ncing multimodal reasoning through co	ld start.
Vision-Language-Action Models in Embodied Jilin University & Lehigh University	d Agents Supervised by Prof. Lichao Sun	Aug 2024 – May 2025
• Proposed a brain-inspired agentic framework coordination protocols.	k for embodied manipulation that incor	porates structured

- Uncertainty estimation in real-world scenarios Intellindust & Max Planck Institute Supervised by Dr. Xi Shen
 - Proposed a **simple and effective** approach named SURE for building reliable and robust deep networks.
 - Achieved SOTA performance in failure prediction across various datasets and model architectures. Obtained results comparable to SOTA models on long-tailed and noisy label benchmarks, without requiring any task-specific adaptation.
 - Successfully applied SURE to real-world scenarios, including fall detection and fire/smoke detection, **significantly** reducing the false positive rate.

Handwritten Text Recognition

Tencent AI Lab & Intellindust

- Developed a simple and data-efficient baseline for handwritten text recognition, solely using Vision Transformer and CTC Loss and achieving SOTA performance.
- Implemented a clean and **high-quality** codebase that has received positive feedback on GitHub.

Industry Experience

Intellindust

Deep Learning Algorithm Intern Advisor: Dr. Xi Shen

- Contributed to the development and deployment of algorithms for fall detection and fire/smoke detection cameras.
- Assisted in the development of an automated training platform.

Tencent AI Lab

Deep Learning Algorithm Intern

- Advisor: Dr. Xi Shen • Engaged in dataset engineering tasks including collection, alignment, and noise removal for 3D human motions.
- Contributed to the testing phase of the T2M-GPT project, ensuring code reliability and functionality.

National Clinical Research Center for Cancer Data Science Intern Advisor: Dr. Hua Jing

- Performed named entity recognition, relation extraction, and entity alignment on clinical oncology-related data.
- Improved oncology data quality through daily cleaning and iterative rule refinement.

Selected awards and honors

- Fisrt Place of Semantic Shift Benchmark (SSB) challenge: Open-Set Recognition Track at ECCV, 2024.
- Competition Expert in kaggle.(Top 1.8% worldwide)
- Recipient of Academic Scholarship from China Three Gorges University, 2022–2024.
- Excellent Graduate of China Three Gorges University in both 2022 and 2025.

Skills

Programming: Python(Pytorch and Jax), Matlab, HTML, Latex. Over 200 GitHub stars achieved.

Language: English: Fluent(TOEFL 92), French: Elementary, Chinese: Native

Writing: Achieved over 110,000 views on technical blog posts published on CSDN.

Academic Service

Reviewer: CVPR 2025, Pattern Recognition

Presentation: Presentation at CVPR 2024 and ECCV 2024 OOD-CV Workshop (Challenge Winners Session).

Patent

- A training method, device and electronic equipment for image classification model. (CN117994611A)
- A text recognition method and system, corresponding apparatus, electronic device, and computer-readable storage medium. (CN117218638A)

Jun 2023 - Sep 2024

Sep 2023 - Sep 2024

Jun 2023 – Sep 2023

Feb 2023 – Jun 2023

- Supervised by Dr. Xi Shen