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

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.

Academic Papers

SURE: SUrvey REcipes for building reliable and robust deep networks.

CVPR 2024

Yuting Li, Yingyi Chen, Xuanlong Yu, Dexiong Chen, Xi Shen

(Accepted)

HTR-VT: Handwritten Text Recognition with Vision Transformer.

Pattern Recognition 2025 SCI Q1 (Accepted)

Yuting Li, Dexiong Chen, Tinglong Tang, Xi Shen

NeurIPS 2025

Vision Matters: Simple Visual Perturbations Can Boost Multimodal Math Reasoning.

Yuting Li, Lai Wei, Kaipeng Zheng, Jingyuan Huang, Linghe Kong, Lichao Sun,

(Under Review)

Weiran Huang

IDER: IDempotent Experience Replay for Reliable Continual Learning.

NeurIPS 2025

Zhanwang Liu*, Yuting Li*(Project lead), Haoyuan Gao, Yexin Li, Linghe Kong,

Lichao Sun, Weiran Huang

(Under Review)

Unsupervised Post-Training for Multi-Modal LLM Reasoning via GRPO. Lai Wei, Yuting Li, Chen Wang, Yue Wang, Linghe Kong, Weiran Huang, Lichao Sun

NeurIPS 2025 (Under Review)

Advancing Multimodal Reasoning via Reinforcement Learning with Cold Start.

NeurIPS 2025

Lai Wei, Yuting Li, Kaipeng Zheng, Chen Wang, Yue Wang, Linghe Kong, Lichao Sun, Weiran Huang

(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, Jiangyue Yan, Dingjie Song, Yinuo Liu, Yuting Li, Yu Zhang, Pan Zhou, Hechang Chen, Lichao Sun

Research Experience

Continual Learning in real-world scenarios

Sep 2024 - Present

MIFA Lab, Shanghai Jiao Tong University

Supervised by Prof. Weiran Huang

- To address the challenge of **catastrophic forgetting** in continual learning, proposed a **novel experience replay** framework leveraging the idempotent property, achieving SOTA performance across sequential tasks.
- To address the lack of **real-world benchmarks**, introduced a new continual learning benchmark with a high-quality open-source codebase, establishing a standardized evaluation platform.

Multi-modal LLM reasoning

Sep 2024 - Present

MIFA Lab, Shanghai Jiao Tong University Supervised by Prof. Weiran Huang

• To address **poor visual integration** in MLLMs during reasoning, proposed a **simple** visual perturbation framework for SFT, DPO, and GRPO, achieving 2–5% performance gains.

• To address **costly annotation** in multi-modal learning, proposed a fully **label-free** framework achieving **competitive performance with supervised method**.

Vision-Language-Action Models in Embodied Agents

Aug 2024 - May 2025

Jilin University & Lehigh University

Supervised by Prof. Lichao Sun

• To mitigate **error accumulation** on long-horizon tasks, proposed a brain-inspired agentic framework that incorporates structured coordination protocols and achieved average **success rate of 79.6%**.

Uncertainty estimation in real-world scenarios

Sep 2023 – Sep 2024

Intellindust & Max Planck Institute

Supervised by Dr. Xi Shen

- To address over-confident issues, proposed a **simple and effective** approach named SURE, spanning model regularization, classifier and optimization 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 applications**, including fall detection and fire/smoke detection, **significantly reducing** the false positive rate.

Handwritten Text Recognition

Jun 2023 - Sep 2024

Tencent AI Lab & Intellindust

Supervised by Dr. Xi Shen

- Due to **limited availability of labeled**, 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 Sep 2023 – Sep 2024

Deep Learning Algorithm Intern

Advisor: Dr. Xi Shen

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

Tencent AI Lab

Jun 2023 – Sep 2023

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

Feb 2023 – Jun 2023

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.

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)