

# Yuting Li

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## Education

Shanghai Jiao Tong University	Apr 2026 – Expected Jun 2030
• Ph.D in Computer Science <b>Supervised by Prof. Weiran Huang</b>	
China Three Gorges University	Sep 2018 – Jun 2025
• B.Eng. and M.Eng. in Computer Science	

## 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.

## Selected Publications

SURE: SUrvey REcipes for building reliable and robust deep networks. <i>Yuting Li</i> , Yingyi Chen, Xuanlong Yu, Dexiong Chen†, Xi Shen† <b>Building on SURE, we won 1st place in SSB challenge at ECCV 2024.</b>	CVPR 2024 <b>(Accepted)</b>
HTR-VT: Handwritten Text Recognition with Vision Transformer. <i>Yuting Li</i> , Dexiong Chen, Tinglong Tang, Xi Shen† <b>Over 60 citations within one year of publication.</b>	Pattern Recognition 2025 <b>SCI Q1 (Accepted)</b>
First SFT, Second RL, Third UPT: Continual Improving Multi-Modal LLM Reasoning via Unsupervised Post-Training. <i>Lai Wei</i> , <b><i>Yuting Li</i></b> , Chen Wang, Yue Wang, Linghe Kong, Weiran Huang†, Lichao Sun	NeurIPS 2025 <b>(Accepted)</b>
IDER: IDempotent Experience Replay for Reliable Continual Learning. <i>Zhanwang Liu*</i> , <b><i>Yuting Li*</i> (Project lead)</b> , Haoyuan Gao, Yexin Li, Linghe Kong, Lichao Sun, Weiran Huang† <b>Final average score 8.5/10</b>	ICLR 2026 <b>(Accepted)</b>
Vision Matters: Simple Visual Perturbations Can Boost Multimodal Math Reasoning. <i>Yuting Li</i> , Lai Wei, Kaipeng Zheng, Jingyuan Huang, Linghe Kong, Lichao Sun, Weiran Huang†	ICML 2026 <b>(Under Review)</b>
Black-box Continual Learning for Vision-Language Models. <i>Yuting Li</i> , Weihang Fang, Haoyuan Gao, Linghe Kong, Yexin Li, Lichao Sun, Weiran Huang†	ICML 2026 <b>(Under Review)</b>

## Research Experiences

Multi-modal LLM reasoning	Sep 2024 – Present
Supervised by Prof. Weiran Huang <b>MIFA Lab, Shanghai Jiao Tong University</b>	
• To address <b>poor visual integration</b> in MLLMs during reasoning, proposed a <b>simple</b> visual perturbation framework for SFT, DPO, and GRPO, achieving <b>2–5%</b> performance gains.	
• To address <b>costly annotation</b> in multi-modal learning, proposed a fully <b>label-free</b> framework achieving <b>competitive performance with supervised method</b> .	
Continual Learning in real-world scenarios	Sep 2024 – Present
Supervised by Prof. Weiran Huang <b>MIFA Lab, Shanghai Jiao Tong University</b>	
• To address the challenge of <b>catastrophic forgetting</b> in continual learning, proposed a <b>novel experience replay framework</b> leveraging the idempotent property, achieving <b>SOTA</b> performance across sequential tasks.	

- To address the lack of **real-world benchmarks**, introduced a black-box continual learning benchmark with a simple and effective baseline and **high-quality** open-source codebase.

### Uncertainty estimation in real-world scenarios

Sep 2023 – Sep 2024

Supervised by Dr. Xi Shen

**Intellindust & Max Planck Institute**

- 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

Supervised by Dr. Xi Shen

**Tencent AI Lab & Intellindust**

- 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 Experiences

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### 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

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**Programming:** Python(Pytorch and Jax), Matlab, HTML, Latex. **Over 250 GitHub stars achieved.**

**Language:** English: Fluent, French: Elementary, Chinese: Native

**Writing:** Achieved over 150,000 views on technical blog posts published on CSDN.

## Academic Service

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**Reviewer:** CVPR 2025-2026, Pattern Recognition

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

## Patents

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- 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)