

# Yuting Li

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## EDUCATION

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### China Three Gorges University

*M.Eng. in Computer Technology*

2022 - Present

### China Three Gorges University

*B.Eng. in Electronic Information Engineering*

2018 - 2022

## PUBLICATIONS

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- **Yuting Li**, Yingyi Chen, Xuanlong Yu, Dexiong Chen, and Xi Shen. SURE: SURvey REcipes for building reliable and robust deep networks. *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.(Accepted)
- **Yuting Li**, Dexiong Chen, Tinglong Tang, and Xi Shen. HTR-VT: Handwritten Text Recognition with Vision Transformer. *Pattern Recognition (PR)*.(Accepted)

## RESEARCH EXPERIENCE

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### Out-of-Distribution detection and negative samples mining

Advisor: Xi Shen and Dexiong Chen

*Intellindust & Université Paris-Saclay*

Feb, 2024 - Present

- **Unified** improvement in both In-Distribution (ID) and Out-of-Distribution (OOD) performance is the true breakthrough that holds significant value in real-world applications.
- New contrastive learning loss to shape a more stringent **decision boundary** between ID and OOD samples.
- Novel negative sample mining strategy to identify **beneficial outliers**, surpassing all previous methods in OOD performance.

### Uncertainty estimation in real-world scenarios

Advisor: Xi Shen and Dexiong Chen

*Intellindust & Max Planck Institute of Biochemistry*

Sep, 2023 - Feb, 2024

- Simple and effective approach **SURE** for building reliable and robust deep networks.
- SOTA performance in **failure prediction** across various datasets and model architectures.
- Competitive results to **SOTA** specialized methods without task-specific modification in real-world scenarios : long-tailed distribution, label noise and data corruption.

### Handwritten Text Recognition

Advisor: Xi Shen

*China Three Gorges University & Tencent AI Lab*

Dec, 2022 - Jun, 2023

- Simple and **data-efficient** approach for handwritten text recognition, with minimal modifications on the Vision Transformer(ViT).
- **SOTA** performance on handwritten text recognition without pre-training or any additional data.

## CONFERENCE PRESENTATIONS

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The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, USA, 2024.

## TEACHING

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### Teaching Assistant, Digital Image Processing I

*Weekly computer lab exercises, assign and mark coursework.*

Sep, 2022 - Nov, 2022

## SKILLS

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**Programming:** Python (PyTorch), MATLAB, R, HTML, LaTeX, MS Office. See my released codes on GitHub.

**Language:** English: Fluent(IELTS: 7)    French: Elementary    Chinese: Native

## SELECTED AWARDS AND HONORS

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- **Winner** of Semantic Shift Benchmark (SSB) challenge: Open-Set Recognition Track at ECCV, 2024.
- **2021-2023**, Recipient of **Academic Scholarship** from China Three Gorges University.
- **Competition Expert** in kaggle.(Highest rank: 3740 of 205106)

## PATENT

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- A training method, device and electronic equipment for image classification model(ZL2024104002122)