Yuting Li

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EDUCATION

China Three Gorges University
M.Eng. in Computer Technology   *2022 - Present*

China Three Gorges University
B.Eng. in Electronic Information Engineering   *2018 - 2022*

PUBLICATIONS

- **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. Handwritten Text Recognition with Vision Transformer. *Pattern Recognition (PR)*.(Minor Revision)

RESEARCH EXPERIENCE

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.
- 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 robutst 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

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

TEACHING

Teaching Assistant, Digital Image Processing I
Weekly computer lab exercises, assign and mark coursework.   *Sep, 2022 - Nov, 2022*

SKILLS

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

- **2021-2023**, Recipient of **Academic Scholarship** from China Three Gorges University.
- **Competition Expert** in kaggle.(Highest rank: 3740 of 205106)

PATENT

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