

# Geng Yu

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## RESEARCH INTEREST

My research interests lie in **trustworthy**, **agentic** and **efficient AI**, especially in efficient training and inference of foundation models, including large language models and diffusion language models.

## EDUCATION

**Shanghai Jiao Tong University, China**  
*M.Eng. in Information and Communication Engineering*  
Advisor: [Jiangchao Yao](#)

Sep. 2023 – Mar. 2026 (expected)  
**GPA: 3.01/4.0** ([transcript](#))

**Shanghai Jiao Tong University, China**  
*B.Eng. in Information Engineering*

Sep. 2019 – Jun. 2023  
**GPA: 3.89/4.3** ([transcript](#))

## PUBLICATIONS

(\* indicates the equal contribution.)

Wide-In, Narrow-Out: Revokable Decoding for Efficient and Effective DLLMs [[paper](#)] [[arXiv 2025](#)]

Feng Hong\*, **Geng Yu\***, Yushi Ye, Haicheng Huang, Huangjie Zheng, Ya Zhang, Yanfeng Wang

Self-Calibrated Tuning of Vision-Language Models for Out-of-Distribution Detection [[paper](#)] [[NeurIPS 2024](#)]

**Geng Yu**, Jianing Zhu, Jiangchao Yao, Bo Han

Sandbox: safeguarded multi-label learning through safe optimal transport [[paper](#)] [[Machine Learning Journal 2024](#)]

Lefei Zhang\*, **Geng Yu\***, Jiangchao Yao, Yew-soon Ong, Ivor W. Tsang, James T. Kwok

Diversified Outlier Exposure for Out-of-Distribution Detection via Informative Extrapolation [[paper](#)] [[NeurIPS 2023](#)]

Jianing Zhu, **Geng Yu**, Jiangchao Yao, Tongliang Liu, Gang Niu, Masashi Sugiyama, Bo Han

## RESEARCH EXPERIENCE

**Diversified Outlier Exposure for Out-of-Distribution Detection**

Advisor: [Jiangchao Yao](#), [Bo Han](#)

Shanghai Jiao Tong University  
Feb. 2023 – Sep. 2023

- This work proposes a new outlier exposure framework that diversifies the surrogate OOD distribution based on the limited auxiliary outliers to achieve better out-of-distribution detection. It has been accepted in NeurIPS 2023.

**Multi-label Learning With Label Noise Via Optimal Transport**

Advisor: [Jiangchao Yao](#)

Shanghai Jiao Tong University  
Sep. 2023 – Sep. 2024

- This work proposes a label-noise learning method that iteratively refines the noisy labels under the framework of optimal transport. It has been accepted in Machine Learning Journal 2024.

**Prompt-Tuning Vision-Language Models for Out-of-Distribution Detection**

Advisor: [Jiangchao Yao](#)

Shanghai Jiao Tong University  
Feb. 2024 – Sep. 2024

- This work proposes a prompt-tuning framework for vision-language models that mitigates the problem of inaccurate surrogate OOD features to achieve better OOD detection. It has been accepted in NeurIPS 2024.

**Online Data Selection for Acceleration of Language Model Pretraining**

Advisor: [Gang Niu](#), [Masashi Sugiyama](#)

RIKEN AIP  
Oct. 2024 – Sep. 2025

- This work proposes a sequence-length-based online data selection method to accelerate language model pretraining. It is currently under review.

**Continual Pretraining on Science Domain with MoE Upcycling**

Advisor: [Linfeng Zhang](#)

Shanghai Jiao Tong University  
Apr. 2025 – Jul. 2025

- This work presents a Mixture-of-Experts language model, based on Qwen2.5-7B and continually pretrained on data in the science domain, with different experts for knowledge in different disciplines. It has been released on arXiv.

**Revokable Decoding for Efficient Diffusion Large Language Model**

Advisor: [Jiangchao Yao](#)

Shanghai Jiao Tong University  
May. 2025 – Jul. 2025

- This work proposes a training-free algorithm that enables revokable decoding in diffusion large language models to improve the speed-quality tradeoff. It has been released on arXiv.

SKILLS

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**Programming:** Python, PyTorch, C++, MATLAB, LaTeX  
**Languages:** Chinese (native), English (TOEFL 109: R30 L28 S23 W28).

HONORS AND AWARDS

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- Shanghai Jiao Tong University Merit Scholarship 2020 – 2025
- Shanghai Jiao Tong University Outstanding Undergraduate 2023
- Shanghai Jiao Tong University Merit Student 2021