

# 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

<b>Shanghai Jiao Tong University, China</b> <i>M.Eng. in Information and Communication Engineering</i> Advisor: Jiangchao Yao	Sep. 2023 – Mar. 2026 (expected) GPA: 3.01/4.0 ( <a href="#">transcript</a> )
<b>Shanghai Jiao Tong University, China</b> <i>B.Eng. in Information Engineering</i>	Sep. 2019 – Jun. 2023 GPA: 3.89/4.3 ( <a href="#">transcript</a> )

## 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, Jiangchao Yao
- 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

<b>Diversified Outlier Exposure for Out-of-Distribution Detection</b> 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 <b>NeurIPS 2023</b> .	
<b>Multi-label Learning With Label Noise Via Optimal Transport</b> 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 <b>Machine Learning Journal 2024</b> .	
<b>Prompt-Tuning Vision-Language Models for Out-of-Distribution Detection</b> Advisor: Jiangchao Yao	Shanghai Jiao Tong University Feb. 2024 – Sep. 2024
• This work proposes a prompt-tuning framework for vision-language models to mitigate the problem of inaccurate surrogate OOD features to achieve better OOD detection. It has been accepted in <b>NeurIPS 2024</b> .	
<b>Online Data Selection for Acceleration of Language Model Pretraining</b> 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 <b>under review</b> .	
<b>Continual Pretraining on Science Domain with MoE Upcycling</b> 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 <b>arXiv</b> .	
<b>Revokable Decoding for Efficient Diffusion Large Language Model</b> 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 <b>arXiv</b> .	

## 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        |