

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 <i>M.Eng. in Information and Communication Engineering</i>	Sep 2023 – Mar 2026 GPA: 3.01/4.0
Shanghai Jiao Tong University, China <i>B.Eng. in Electrical and Electronics Engineering</i> Advisor: Jiangchao Yao	Sep 2019 – Jun 2023 GPA: 3.93/4.3

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 <ul style="list-style-type: none">propose an outlier exposure framework that diversifies the given auxiliary outliers to achieve better out-of-distribution detection. This work has been accepted in NeurIPS 2023.	Shanghai Jiao Tong University Feb 2023 – Sep 2023
Multi-label Learning With Label Noise Via Optimal Transport Advisor: Jiangchao Yao <ul style="list-style-type: none">propose a label-noise learning method that iteratively refines the noisy label under the framework of optimal transport. This work has been accepted in Machine Learning Journal 2024.	Shanghai Jiao Tong University Sep 2023 – Sep 2024
Prompt-Tuning Vision-Language Models for Out-of-Distribution Detection Advisor: Jiangchao Yao <ul style="list-style-type: none">propose a prompt-tuning framework that mitigates the problem of inaccurate surrogate OOD features to achieve better OOD detection. This work has been accepted in NeurIPS 2024.	Shanghai Jiao Tong University Feb 2024 – Sep 2024
Data Scheduling for Acceleration of Language Model Pretraining Advisor: Gang Niu , Masashi Sugiyama <ul style="list-style-type: none">propose a length-based online data selection method to accelerate language model pretraining. This work has been submitted to ICLR 2026.	RIKEN AIP Sep 2024 – Sep 2025
Continual Pretraining on Science Domain with MoE Upcycling Advisor: Linfeng Zhang <ul style="list-style-type: none">present a Mixture-of-Experts language model which is based on Qwen2.5-7B and continually pretrained on science domain data, where different experts learn science knowledge in different disciplines. This work has been released on arXiv.	Shanghai Jiao Tong University Apr 2025 – Jul 2025
Revokable Decoding for Efficient Diffusion Large Language Model Advisor: Jiangchao Yao <ul style="list-style-type: none">propose a training-free algorithm that enables revokable decoding in diffusion large language models to improve the speed-quality tradeoff. This work has been released on arXiv.	Shanghai Jiao Tong University May 2025 – Jul 2025

HONORS AND AWARDS

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

SKILLS

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