

Geng Yu

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RESEARCH INTEREST

My research interests lie in **trustworthy**, **agentic** and **efficient AI**, with the focus on **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> Advisor: Jiangchao Yao	Sep. 2023 – Mar. 2026 (expected) GPA: 3.01/4.0 (transcript)
Shanghai Jiao Tong University, China <i>B.Eng. in Information Engineering</i>	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, 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

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| Diversified Outlier Exposure for Out-of-Distribution Detection
Advisor: Jiangchao Yao , Bo Han | Shanghai Jiao Tong University
Feb. 2023 – Sep. 2023 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">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 NeurIPS 2024. | |
| Online Data Selection for Acceleration of Language Model Pretraining
Advisor: Gang Niu , Masashi Sugiyama | RIKEN AIP
Oct. 2024 – Sep. 2025 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">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

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

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