



Yixing Li 李熠星

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EDUCATION

Shanghai Jiao Tong University

Artificial Intelligence Bachelor 全日制

GPA & Mark: 4.04 / 4.30, 92.70 / 100; Rank: 3 / 88

Sep 2020 - Jan 2024

Shanghai Jiao Tong University

The Chinese University of Hong Kong

Doctor of Philosophy, Computer Science Engineering

Sep 2024 - Jun 2028

Hong Kong

COMPETITION EXPERIENCE & AWARDS

The Chinese Mathematics Competitions : The First Prize	2021
Mathematical Contest in Modeling : The Honorable Mention	2022
Zhiyuan Honors Scholarship	2020, 2021, 2022
Shanghai Jiao Tong University Scholarship	2020, 2021, 2022
ShaoQiu Scholarship	2022
2023 SJTU President's Award	2023
Outstanding Graduate of Shanghai Jiao Tong University	2024

PAPERS

PUBLISHED PAPERS

- **(AAAI 2026, 1st author) Transmamba: Flexibly switching between transformer and mamba**
Keywords: LLM; Hybrid Model; Training Efficiency.
TL;DR: We propose TransMamba, a novel sequence-level hybrid framework that unifies Transformer and Mamba by sharing parameter matrices and memory converter.
[\[LINK to arxiv\]](#) [\[LINK to AAAI version\]](#)
- **(NAACL 2025, 1st author) Continuous Speech Tokenizer in Text To Speech**
Keywords: Generation, Language Modeling, Text-to-Speech, Interpretability and Analysis of Models for NLP.
TLDR: We propose a simple yet effective framework for continuous speech tokenizer and a text-to-speech model based on continuous speech tokens, which shows greater performance and better information preservation rate.
[\[Link to NAACL version\]](#)
- **(ICLR 2026, 3rd author) Can LLMs Reason Soundly in Law? Auditing Inference Patterns for Legal Judgment**
Keywords: Large Language Model, Value Alignment, Trustworthiness
TL;DR: This paper presents a method to analyze the inference patterns used by the Large Language Model for legal judgment.
[\[LINK to ICLR version\]](#)
- **(ICML 2025) Scaling Laws for Floating Point Quantization Training**
Keywords: Floating-point quantization training, Scaling law, Training performance.
TL;DR: This paper examines floating-point quantization in LLM training, proposes a unified scaling law, and offers key recommendations for improving model performance and cost-efficiency.
[\[Link to ICML version\]](#)
- **(CVPR 2024) From isolated islands to pangea: Unifying semantic space for human action understanding**
Keywords: Computer vision, Action understanding, Cross-dataset label alignment, Multimodal data.
TL;DR: We build a verb-taxonomy action semantic space to align existing datasets into a unified "Pangea" label system and propose a physical-to-semantic model that leverages it, delivering consistent improvements, strongest in transfer learning.
[\[Link to CVPR version\]](#)

UNDER REVIEW

- (1st author) Higher-Dimensional Rotary Position Embedding
- (2nd author) RSMath: Benchmarking Reasoning Strategy Coverage in Mathematical Problem Solving

ARXIV PAPERS

- (1st author) Direct preference knowledge distillation for large language models
- Alignment between the decision-making logic of llms and human cognition: A case study on legal llms

INTERNSHIP EXPERIENCE

Machine Vision and Intelligence Group (SJTU)

Oct 2021 - Sep 2023

Research Intern

- In 2023 participated in an paper accepted by CVPR 24, title: From isolated islands to pangea: Unifying semantic space for human action understanding.

TAO Orbital Disease Imaging Group

Mar 2023 - Sep 2023

Team Member

- Completed a patent in 2023, I was the first author in engineering. The patent was about the usage of DL in treatment prediction of the TAO (Thyroid-Associated Ophthalmopathy).
- Completed a review in 2023 about DL in TAO, I was the first author in engineering.
- Completed a paper submitted to European journal of Radiology, I was the second author of paper. Title: RDInet: A Dynamic Mapping Model for Multimodal Feature Fusion

Shanghai Joining

Co-founder

Shanghai

It started as a startup company at Shanghai Jiao Tong University. I joined as a co-founder. The company's goal is to do data synthesis and verification for AI agents, mainly providing services to universities and B-side.

Microsoft Research Asia (MSRA)

Feb 2024 - Jun 2024

Research Intern NLC Group

Beijing

- Completed a LLMs distillation paper and currently posted on arxiv. I am the first author of the paper.

Tencent Machine Learning Group

Jul 2024 - May 2026

Research intern

- Completed three patent, I am the first author.
- One paper accepted by NAACL 2025.
- One paper accepted by ICML 2025 poster.
- One paper accepted by AAAI 2026 poster.
- Working on two papers about LLM: (1) About position embedding, submitting to ARR May (EMNLP); (2) About LLM reasoning benchmark.

Others

In addition to the above internship experience, I participated in the following papers:

- Collaboration with Prof. Quanshi Zhang in SJTU, completed a paper about LLM interpretability: Alignment between the decision-making logic of llms and human cognition
- Collaboration Tongji University, completed a paper about LLM & math.

SKILLS

- CET 4: 606, CET 6: 533, IELTS: 7.0
- Mathematical skills: Great foundation of mathematics.

SUMMARY

I am enthusiastic about my project, willing to learn brand new knowledge and explore the world with a modest and open mind.

My google scholar homepage: <https://scholar.google.com/citations?user=V8FcspEAAAAJ&hl=en>