

# Jing Peng

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## EDUCATION

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### University of Xi'an Jiao Tong University

Xi'an, China

Bachelor of Engineering

September 2021 – June 2025

Qian Xue Sen Honor Class, major in Automation and minor in Electrical Engineering

- Rank / GPA – 1/ 4.0

### University of California, Berkeley

Berkeley, USA

Exchange Student

August 2023 – December 2023

Berkeley Global Access Program (BGA), College of Engineering

- Courses – CS61B(A), Mec136(A), EECS149, ELENG113(A-)

### Shanghai Jiao Tong University

Shanghai, China

Ph.D student

September 2025 – Present

X-LANCE Lab, College of Computer Science, Zhiyuan Honors Ph.D. Program

- Supervisor – Prof.Kai Yu and Prof. Shinji Watanabe (Carnegie Mellon University, USA)

## Research Experience

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### Reward Model Design and Optimization in RLHF

Feb 2024 – May 2024

- Designed reward models for alignment in Reinforcement Learning from Human Feedback
- Research conducted at PKU Alignment Lab, Peking University

### Research on Speech Large Language Models

Jul 2024 – Present

- Focused on automatic speech recognition and multimodal alignment for speech understanding
- Internship project at AISpeech, Shanghai

### Speech Large Language Models for SA-ASR

Sep 2025 – Present

- Research intern on Speaker-Attributed ASR with Speech LLMs (SLM for SA-ASR)
- Internship project at Shenzhen Research Institute of Big Data, Remote

### Speaker Discrimination on Omni and SLM

Sep 2025 – Present

- Focused on explicit speaker discrimination and implicit speaker selection for multi-speaker understanding
- Internship conducted at Hi Lab, Xiaohongshu, Shanghai

## Research Articles

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- Jing Peng\***, Y. Wang\*, Y. Fang, Y. Xi, X. Li, X. Zhang, K. Yu. *A Survey on Speech Large Language Models for Understanding*. arXiv:2410.18908, 2024. (Accepted by J-stsp)
- Jing Peng**, Y. Yang, X. Li, Y. Xi, Q. Tang, Y. Fang, J. Li, K. Yu. *TASU: Text-Only Alignment for Speech Understanding*. (Accepted by ICASSP2026)
- Y. Fang\*, **Jing Peng\***, X. Li, Y. Xi, C. Zhang, G. Zhong, K. Yu. *Low-Resource Domain Adaptation for Speech LLMs via Text-Only Fine-Tuning*. arXiv:2506.05671, 2025. (Accepted by ASRU2025)
- Junjie Li, **Jing Peng**, Yangui Fang, Shuai Wang, Kai Yu. *MOSA: Mixtures of Simple Adapters Outperform Monolithic Approaches in LLM-based Multilingual ASR*. arxiv:2508.18998, 2025. (Accepted by ICASSP2026)
- Y. Fang, B. Cheng, **Jing Peng**, X. Li, Y. Xi, C. Zhang, G. Zhong. *Fewer Hallucinations, More Verification: A Three-Stage LLM-Based Framework for ASR Error Correction*. arXiv:2505.24347, 2025. (Accepted by ASRU2025)

- B. Li, W. Huang, Y. Qiu, Y. Guo, H. Wang, Z. Li, **Jing Peng**, Z. Ma, X. Chen, K. Yu. *ISA-Bench: Benchmarking Instruction Sensitivity for Large Audio Language Models*. arXiv:2510.23558, 2025. (Accepted by ICASSP2026)
- Y. Fang\*, **J. Peng\***, Y. Xi, X. Li, H. Li, C. Zhang, G. Zhong, K. Yu. *Joint Decoding Method for Controllable Contextual Speech Recognition Based on Speech LLM*. arXiv:2508.08585, 2025.

## Academic Honors

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- Merit Student, Xi'an Jiaotong University** 2022 – 2024
  - Recognized for academic excellence, campus engagement, and leadership
- Outstanding Graduate Student, Xi'an Jiaotong University** 2025
  - Selected among top graduates for comprehensive academic and extracurricular performance
- Taxman Second-Class Scholarship & Merit Student Honor, Xi'an Jiaotong University** 2023
  - Awarded for academic excellence and all-round performance
- Second-Class Scholarship & Merit Student Honor, Xi'an Jiaotong University** 2022
  - Honored for excellent grades and university-level achievements

## Research & Competition Achievements

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- First Prize, National Mathematical Modeling Competition (Shaanxi Province)** 2023
  - Team Leader; Advisor: Prof. Long Chen, School of Computer Science, Xi'an Jiaotong University
- Second Prize, National Mathematical Modeling Competition (Shaanxi Province)** 2022
  - Team Leader; Advisor: Prof. Huanqin Li, School of Mathematics and Statistics, Xi'an Jiaotong University
- Conference Publication: IECON 2023 (IEEE Industrial Electronics Society)** 2023
  - *Distributed Secondary Control for DC Microgrid with Virtual Voltage Compensation*  
DOI: 10.1109/IECON51785.2023.10311983
- Utility Patent Granted (National Level, China)** 2023
  - *A Novel Composting Instrument*; Patent No.: ZL 2023 2 3087822.1
- First Prize, National English Translation Contest for College Students** 2022
  - Awarded for outstanding English–Chinese translation in national-level competition

## Student Leadership

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- Head of Sports Division, Qian Xuesen College Student Union** Jul 2022 – Jul 2023
  - Led student sports activities and coordinated intra- and inter-college athletic events
- Standing Committee Member, Qian Xuesen College Student Union** Jul 2023 – Jul 2024
  - Participated in strategic planning and management of the college student union
- Student Delegate, 9th National Honors Education Conference, XJTU Representative** May 2024
  - Represented Xi'an Jiaotong University at a national-level honors talent development forum and delivered a featured presentation