

# Jingyu Zhou

## Educa tion

### Artificial Intellegence, SJTU

GPA 4.04/4.30, Rank 4/95

### Zhiyuan Honor Program, SJTU

Top 10% of SJTU with advanced coursework

Sept. 2023 – Present

Minhang, Shanghai

Sept. 2023 – Present

Minhang, Shanghai

## Experience

### GAIR, SJTU & Qing Yuan Research Institute

Research Intern

Jan. 2025 - Present

Minhang, Shanghai

### IPADS, SJTU

Research Intern

Dec. 2024 - Present

Minhang, Shanghai

### RHOS, SJTU & Qing Yuan Research Institute

Research Intern

Sept. 2024 – Jan. 2025

Minhang, Shanghai

- We propose that the current definition of modalities is inadequate. Instead of defining modalities based on sensory modalities (e.g., human or machine), they should be redefined in terms of task-specific requirements.
- Thus I joined a research team focused on multimodal machine learning, with an emphasis on Large Language Models (LLMs), under the guidance of my mentor.

### X-LANCE, SJTU

Research Intern

Feb. 2024 – Sept. 2024

Minhang, Shanghai

- Contributed to the preparation of a tutorial report on *TTS Based on Discrete Representations* for NCMMSC 2024, specifically focusing on ASR probe experiments.
- Conducted a comprehensive comparison of three types of TTS models (reconstruction, classification, and hybrid) against traditional continuous representations, demonstrating that discrete representations are comparable or superior performance to continuous representations under specific conditions. This finding offers valuable insights for future TTS model development.

## Honors and Awards

### Shanghai Scholarship, 2024

- Awarded to the **TOP 2%** of students in Shanghai.

### Zhiyuan Honors Scholarship, SJTU, 2023 & 2024

- Awarded to the **TOP 5%** of students in the Zhiyuan Honor Program.

### Merit Scholarship, B level, SJTU, 2024

- Awarded to the **TOP 5%** of students at SJTU.

## Projects

### aiTour

Jan. 2024 – Present

- Developed an open-source resource to assist AI self-learners, providing hands-on tutorials and conceptual overviews. Hosted on a public repository with over 2000 views.

## Courses

**A+ Courses** : Program Design(Honor), Discrete Math(Honor), Linear Algebra(Honor), Math Analysis(Honor), Artificial Intelligence Problem Solving and Practice, Data Structure(Honor), Digital Electronics, Programming Practices of Artificial Intelligence, Physical Education

**Extracurricular Courses** : UCB CS61a, UCB CS61b, Stanford CS229, Stanford CS224n, Stanford CS236, University of Michigan EECS 498.008, MIT RES.6-012

**Planning To Take**: CMU 15-213, MIT 6.S081

## Skills & Interests

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**Skills** : Python(Pytorch, numpy), Probability, Machine Learning, Deep Learning, Basic Use of Linux

**Interests** : Natural Language Processing, (Multimodal) Machine Learning

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