

Xu Ke

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Education

Zhejiang University

Computer Science and Technology

Bachelor of Engineering

2024.09 – 2028.06

- **Minoring:** Advanced Honor Class of Engineering Education (ACEE) in **Chu Kochen Honors College (50 selected students per year from university-wide)**
- **GPA:** 91.7/100, 4.15/4.30
- **Languages:** Chinese (Native), English (**TOEFL 103**, CET-6 594)

Experience

Research Assistant

Advised by Prof. Zhou Zhao

Zhejiang University

2024.11 -- 2025.5

- **Research Topic:** Multimodal Learning, Spatial Audio Generation

- Participated in constructing a 484-hour spatial audio corpus. Engineered the preprocessing workflow for the MRSMusic and MRSSing subsets, handling 23 types of instruments and professional vocal recordings.

Summer Program

Electronic Information Engineering Summer School

West Lake University

2025.08

- Visited West Lake University's high-tech labs and research centers, attended lectures and workshops on cutting-edge topics in electronic information engineering.

Publications

- [NeurIPS 2025] **MRSAudio: A Large-Scale Multimodal Recorded Spatial Audio Dataset with Refined Annotations** [#Arxiv Link](#)

Wenxiang Guo, Changhao Pan, Zhiyuan Zhu, Xintong Hu, Yu Zhang, Li Tang, Rui Yang, Han Wang, Zongbao Zhang, Yuhan Wang, Yixuan Chen, Hankun Xu, **Ke Xu**, Pengfei Fan, Zhetao Chen, Yanhao Yu, Qiange Huang, Fei Wu and Zhou Zhao. The Annual Conference on Neural Information Processing Systems Datasets and Benchmarks Track. 2025.

Selected Projects

- **RAG-Based Intelligent Q&A System**

Engineered a Retrieval-Augmented Generation (RAG) system integrating **Hybrid Search strategies** (BM25 + Vector Retrieval) to mitigate semantic mismatch and improve context recall accuracy. **Optimized data chunking pipelines** using HuggingFace BAAI models, reducing token redundancy while maintaining semantic integrity. Deployed the solution with a Gradio web interface, utilizing the Deepseek API for **high-quality natural language inference**.

Honors and Awards

- 2025 National Scholarship: Highest scholarship for undergraduate students in China
- 2025 The First Prize Scholarship of Zhejiang University
- 2025 Outstanding Students of Yunfeng Community: Top 2% students in Yunfeng Community

Extracurricular Activities

- Vice President of Badminton Association, Zhejiang University (2025.06 – present)
- Director of Student Science and Technology Innovation Guidance Center in Yunfeng Community, Zhejiang University (2025.06 – present)
- Class Monitor of Class CS-2402 in College of Computer Science and Technology, Zhejiang University

Skills and Techniques

- **Programming Languages:** Proficient in C/C++; familiar with Python, Verilog, Matlab.
- **Interests:** Artificial Intelligence, Natural Language Processing, RAG Systems, Multimodal Learning