

YIHANG CHEN

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🎓 EDUCATION

Zhejiang University

2021 – Present

B.S. in Computer Science and Technology, expected to graduate in June 2025

B.S. in Statistics, transferred

Overall GPA: 3.99/4 (90.3/100)

CS Courses: Fundamentals of Data Structures (98), Object Oriented Programming (93), B/S Architecture Software Design (92), Natural Language Processing (90), Multimedia Technology (96)

Linguistics Courses: Syntax (98), Phonetics (89), Japanese Pragmatics (96), Semantics (Studying)

👥 EXPERIENCE

University of Massachusetts, Amherst

2023 – Present

Intern Tutor: Prof. Chuang Gan

Participated in multimodal AIGC research projects and contributed to speech synthesis subsystems.

- The 3rd author of RapVerse, a project on coherent vocal and motion generation.
- A paper under submission to ICLR 2025 on speech video generation.

Chinese University of Hong Kong, Shenzhen

Jul. 2024 – Sept. 2024

Summer Intern Tutor: Prof. Zhizheng Wu

Participated in a multilingual text-to-speech synthesis project leveraging large language models (LLM).

- Introduced Mamba to the autoregressive model architecture to try to improve the inference efficiency.
- Modified the text frontend of the text-to-speech pipeline.
- Tried to adapt the pre-trained model to new speakers with parameter-efficient finetuning.

Zhejiang University

2023 – Present

Intern Tutor: Prof. Yunqi Wang

Explored the intersection of phonetics and psycholinguistics on the CHILDES corpus, investigated the effects of pronunciation variation of polysemous words on infants' vocabulary acquisition.

- Parsed metadata and conversation transcriptions from CHAT files using PyLangAcq.
- Extracted acoustic metrics with tools including MFA, librosa and the Python interface of Praat.
- Regression analysis using SPSS.

⚙️ SKILLS

- Python = C/C++ (Proficient) > Java = Golang = MATLAB (With project experience)
- Basic machine learning skills with proficiency in PyTorch
- Domain knowledge in natural language processing (NLP) and speech processing
- Domain knowledge in linguistics, especially in phonetics, syntax and computational linguistics

♡ HONORS AND AWARDS

2nd Prize, Zhejiang University Scholarship

Nov. 2022

Zhejiang Provincial Government Scholarship

Nov. 2022

3rd Prize, Zhejiang University Scholarship

Nov. 2023

📄 MISCELLANEOUS

- 🌐 <https://github.com/kaleo996/>
- 🗣️ English (TOEFL 104), Chinese (Native speaker), Japanese (N2), novice at Arabic and Hebrew