

EDUCATION	The University of Texas at Austin , Austin, USA Ph.D. Student, Computer Science Advisor: Prof. David Harwath	August 2024 - Present
	Shanghai Jiao Tong University , Shanghai, China B.E. in Information Engineering Advisor: Prof. Xie Chen	September 2020 - June 2024
	Shanghai Jiao Tong University , Shanghai, China Zhiyuan Honors Program of Engineering	September 2020 - June 2024
EMPLOYMENT	Amazon Applied Scientist Intern	May 2025 - Present, Seattle, USA
	Microsoft Research Asia Research Intern (Supervisor: Lei He, Xu Tan)	Apr 2024 - Aug 2024, Beijing, China
	The University of Texas at Austin , SALT Lab Visiting Scholar (Supervisor: David Harwath, Eunsol Choi)	July 2023 - Jan 2024, Austin, USA
SELECTED AWARDS & HONORS	Shanghai Outstanding Graduates	2024
	Best Student Paper Shortlist , INTERSPEECH	2023
	Zhiyuan College Honors Scholarship (TOP 10%) , Zhiyuan College	2020-2024
PUBLICATIONS	[1] VoiceCraft-X: Unifying Multilingual, Voice-Cloning Speech Synthesis and Speech Editing. Zhisheng Zheng , Puyuan Peng, Anuj Diwan, Cong Phuoc Huynh, Xiaohang Sun, Zhu Liu, Vimal Bhat, David Harwath <i>Conference on Empirical Methods in Natural Language Processing (EMNLP)</i> , 2025	
	[2] Scaling rich style-prompted text-to-speech datasets. Anuj Diwan, Zhisheng Zheng , David Harwath, Eunsol Choi <i>Conference on Empirical Methods in Natural Language Processing (EMNLP)</i> , 2025	
	[3] DRCap: Decoding CLAP Latents with Retrieval-Augmented Generation for Zero-shot Audio Captioning. Xiquan Li, Wenxi Chen, Ziyang Ma, Xuenan Xu, Yuzhe Liang, Zhisheng Zheng , Qiuqiang Kong, Xie Chen <i>International Conference on Acoustics, Speech, and Signal Processing (ICASSP)</i> , 2025.	
	[4] SLAM-AAC: Enhancing Audio Captioning with Paraphrasing Augmentation and CLAP-Refine through LLMs. Wenxi Chen, Ziyang Ma, Xiquan Li, Xuenan Xu, Yuzhe Liang, Zhisheng Zheng , Kai Yu, Xie Chen <i>International Conference on Acoustics, Speech, and Signal Processing (ICASSP)</i> , 2025.	
BEFORE PH.D.	[5] EmoBox: Multilingual Multi-corpus Speech Emotion Recognition Toolkit and Benchmark. Ziyang Ma, Mingjie Chen, Hezhao Zhang, Zhisheng Zheng , Wenxi Chen, Xiquan Li, Jiaxin Ye, Xie Chen, Thomas Hain <i>Annual Conference of the International Speech Communication Association (INTERSPEECH)</i> , 2024.	
	[6] Emotion2vec: Self-Supervised Pre-Training for Speech Emotion Representation.	

Ziyang Ma, **Zhisheng Zheng**, Jiaxin Ye, Jinchao Li, Zhifu Gao, Shiliang Zhang, Xie Chen
Findings of ACL, 2024.

- [7] BAT: Learning to Reason about Spatial Sounds with Large Language Models.
Zhisheng Zheng, Puyuan Peng, Ziyang Ma, Xie Chen, Eunsol Choi, David Harwath
International Conference on Machine Learning (ICML), 2024.
- [8] EAT: Self-Supervised Pre-Training with Efficient Audio Transformer.
Wenxi Chen, Yuzhe Liang, Ziyang Ma, **Zhisheng Zheng**, Xie Chen
International Joint Conference on Artificial Intelligence (IJCAI), 2024.
- [9] SJTU-THU AUTOMATED AUDIO CAPTIONING SYSTEM FOR DCASE 2024.
Wenxi Chen, Xiquan Li, Ziyang Ma, Yuzhe Liang, **Zhisheng Zheng**, Anbai Jiang, Yanmin Qian, Pingyi Fan, Wei-Qiang Zhang, Cheng Lu, Jia Liu, Xie Chen
Detection and Classification of Acoustic Scenes and Events (DCASE Challenge), 2024.
- [10] Leveraging speech ptm, text llm, and emotional tts for speech emotion recognition.
Ziyang Ma, Wen Wu, **Zhisheng Zheng**, Yiwei Guo, Qian Chen, Shiliang Zhang, Xie Chen
International Conference on Acoustics, Speech, and Signal Processing (ICASSP; **Oral**), 2024.
- [11] Fast-HuBERT: An Efficient Training Framework for Self-Supervised Speech Representation Learning.
Guanrou Yang, Ziyang Ma, **Zhisheng Zheng**, Yakun Song, Zhikang Niu, Xie Chen
IEEE Automatic Speech Recognition and Understanding Workshop (ASRU), 2023.
- [12] Exploring Effective Distillation of Self-Supervised Speech Models for Automatic Speech Recognition.
Yujin Wang, Changli Tang, Ziyang Ma, **Zhisheng Zheng**, Xie Chen, Wei-Qiang Zhang
IEEE Automatic Speech Recognition and Understanding Workshop (ASRU), 2023.
- [13] MT4SSL: Boosting Self-Supervised Speech Representation Learning by Integrating Multiple Targets.
Ziyang Ma, **Zhisheng Zheng**, Changli Tang, Yujin Wang, Xie Chen
Annual Conference of the International Speech Communication Association (INTERSPEECH), 2023. **Best student paper shortlist**.
- [14] Unsupervised Active Learning: Optimizing Labeling Cost-Effectiveness for Automatic Speech Recognition.
Zhisheng Zheng, Ziyang Ma, Yu Wang, Xie Chen
Annual Conference of the International Speech Communication Association (INTERSPEECH), 2023.
- [15] Pushing the Limits of Unsupervised Unit Discovery for SSL Speech Representation.
Ziyang Ma, **Zhisheng Zheng**, Guanrou Yang, Yu Wang, Chao Zhang, Xie Chen
Annual Conference of the International Speech Communication Association (INTERSPEECH), 2023.
- [16] Front-End Adapter: Adapting Front-End Input of Speech based Self-Supervised Learning for Speech Recognition.
Xie Chen, Ziyang Ma, Changli Tang, Yujin Wang, **Zhisheng Zheng**
International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023.
- [17] RosettaSpeech: Zero-Shot Speech-to-Speech Translation from Monolingual Data.
Zhisheng Zheng, Xiaohang Sun, Tuan Anh Dinh, Abhishek Yanamandra, Abhinav Jain, Zhu Liu, Sunil Hadap, Vimal Bhat, Manoj Aggarwal, Gerard Medioni, David Harwath

PREPRINTS

SERVICES

Conference Reviewer/Program Committee:

ACL Rolling Review 2024, ICML 2025, AAAI 2026, ICLR 2026