

Zhisheng Zheng

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EDUCATION	The University of Texas at Austin , Austin, USA Ph.D. Student, Computer Science Advisor: Prof. David Harwath and Prof. Eunsol Choi Shanghai Jiao Tong University , Shanghai, China B.E. in Information Engineering Advisor: Prof. Xie Chen Shanghai Jiao Tong University , Shanghai, China Zhiyuan Honors Program of Engineering	August 2024 - Present September 2020 - June 2024 September 2020 - June 2024
EMPLOYMENT	Microsoft Cloud + AI Research Intern (Supervisor: Lei He, Xu Tan) SALT Lab, The University of Texas at Austin Visiting Scholar (Supervisor: David Harwath, Eunsol Choi) Cross Media (X-) Language Intelligence Lab (X-LANCE) Shanghai Jiao Tong University Research Intern (Supervisor: Xie Chen)	Apr 2024 - Present, Beijing, China July 2023 - Jan 2024, Austin, USA Dec 2021 - Present, Shanghai, China
SELECTED AWARDS & HONORS	Shanghai Outstanding Graduates SenseTime Scholarship for Undergraduate AI Researchers (30 winners nationwide each year) , SenseTime Rongchang Science and Technology Innovation Scholarship (<0.1%) Shanghai Rongchang Public Welfare Foundation Best Student Paper Shortlist , INTERSPEECH Zhiyuan College Honors Scholarship (TOP 10%) , Zhiyuan College Tencent Scholarship (TOP 2%) , Tencent Technology (Shenzhen) Co., Ltd.	2024 2023 2023 2023 2020-2024 2021
PUBLICATIONS BEFORE PH.D.	[1] 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. [2] 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. [3] 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), 2024. [4] 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. [5] 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.	

- [6] MT4SSL: Boosting Self-Supervised Speech Representation Learning by Integrating Multiple Targets.
Ziyang Ma, **Zhisheng Zheng**, Changli Tang, Yujin Wang, Xie Chen
INTERSPEECH 2023. **Best student paper shortlist.**
- [7] Unsupervised Active Learning: Optimizing Labeling Cost-Effectiveness for Automatic Speech Recognition.
Zhisheng Zheng, Ziyang Ma, Yu Wang, Xie Chen
INTERSPEECH 2023.
- [8] Pushing the Limits of Unsupervised Unit Discovery for SSL Speech Representation.
Ziyang Ma, **Zhisheng Zheng**, Guanrou Yang, Yu Wang, Chao Zhang, Xie Chen
INTERSPEECH 2023.
- [9] 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.
- PREPRINTS [10] Emotion2vec: Self-Supervised Pre-Training for Speech Emotion Representation.
Ziyang Ma, **Zhisheng Zheng**, Jiaxin Ye, Jinchao Li, Zhifu Gao, Shiliang Zhang, Xie Chen
Arxiv Preprint, 2024.