

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

- [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.