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|--------------------------------|---|---|
| EDUCATION | <div><div>The University of Texas at Austin, Austin, USA</div><div>Ph.D. Student, Computer Science</div><div>Advisor: Prof. David Harwath</div></div> <div>Shanghai Jiao Tong University, Shanghai, China</div> <div>B.E. in Information Engineering</div> <div>Advisor: Prof. Xie Chen</div> <div>Shanghai Jiao Tong University, Shanghai, China</div> <div>Zhiyuan Honors Program of Engineering</div> | <div>August 2024 - Present</div> <div>September 2020 - June 2024</div> <div>September 2020 - June 2024</div> |
| EMPLOYMENT | <div>Microsoft Research Asia</div> <div>Research Intern (Supervisor: Lei He, Xu Tan)</div> <div>The University of Texas at Austin, SALT Lab</div> <div>Visiting Scholar (Supervisor: David Harwath, Eunsol Choi)</div> <div>Shanghai Jiao Tong University, X-Lance Lab</div> <div>Research Intern (Supervisor: Xie Chen)</div> | <div>Apr 2024 - Aug 2024, Beijing, China</div> <div>July 2023 - Jan 2024, Austin, USA</div> <div>Dec 2021 - Jun 2024, Shanghai, China</div> |
| SELECTED AWARDS & HONORS | <div>Shanghai Outstanding Graduates</div> <div>SenseTime Scholarship for Undergraduate AI Researchers (30 winners nationwide each year), SenseTime</div> <div>Rongchang Science and Technology Innovation Scholarship (<0.1%) Shanghai Rongchang Public Welfare Foundation</div> <div>Best Student Paper Shortlist, INTERSPEECH</div> <div>Zhiyuan College Honors Scholarship (TOP 10%), Zhiyuan College</div> <div>Tencent Scholarship (TOP 2%), Tencent Technology (Shenzhen) Co., Ltd.</div> | <div>2024</div> <div>2023</div> <div>2023</div> <div>2023</div> <div>2020-2024</div> <div>2021</div> |
| PUBLICATIONS | <div>[1] 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 International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2025.</div> <div>[2] 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 International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2025.</div> | |
| BEFORE PH.D. | <div>[3] 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 INTERSPEECH 2024.</div> <div>[4] 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.</div> <div>[5] 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> | |

- [6] 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.
- [7] 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.
- [8] 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.
- [9] 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.
- [10] 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.
- [11] 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.**
- [12] Unsupervised Active Learning: Optimizing Labeling Cost-Effectiveness for Automatic Speech Recognition.
Zhisheng Zheng, Ziyang Ma, Yu Wang, Xie Chen
INTERSPEECH 2023.
- [13] 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.
- [14] 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.

SERVICES

Conference Reviewer/Program Committee:
ACL Rolling Review 2024, ICML 2025