

Xiangyu (Hsiangyu) Zhao

PhD Student at Monash University | AI for Science | Multimodal AI for Mental Health | Medical Image Analysis

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EDUCATION

PhD, Data Science and Artificial Intelligence (in progress) Monash University Melbourne, Australia	2026 - Present
Master of Engineering, Electronic and Information Engineering Shanghai Jiao Tong University Shanghai, China GPA: 3.78/4.00 Shanghai Outstanding Graduate	2021 - 2024
Bachelor of Engineering, Biomedical Engineering Beihang University Beijing, China GPA: 3.87/4.00 Rank: 1/64 Beijing Outstanding Graduate	2017 - 2021

RESEARCH EXPERIENCE

Research Intern Xiaohongshu (RED) Shanghai, China - Worked on multimodal LLM post-training.	Aug 2025 - Feb 2026
Research Assistant Monash Suzhou Suzhou, China / Hybrid - Developed multimodal and language-model research for mental health, including audio-visual depression detection, safety and ethics evaluation, audio-grounded process evaluation, and clinician-oriented explanations. - Collaborated across machine learning, psychiatry, psychology, and clinical research teams.	Jun 2024 - Jan 2026
Research Intern United Imaging Intelligence Shanghai, China - Developed foundation-model methods for medical image segmentation, including general multimodal segmentation and learning from partially labeled datasets.	Aug 2023 - Jun 2024
Research Intern Institute of Automation, Chinese Academy of Sciences Beijing, China - Studied object detection for large-scale images.	Feb 2021 - Jun 2021

SELECTED PUBLICATIONS

Selected first-author peer-reviewed and public research outputs. Full list: [Google Scholar](#).

- Xiangyu Zhao**, Junyu Yan, Yaling Shen, Zimu Wang, Yiwen Jiang, Stephanie Fong, Qingyang Xu, Jiahe Liu, Dominic Dwyer, and Zongyuan Ge. "AudioProcessBench: Benchmark for Identifying Process Errors in Audio-Grounded Reasoning." *arXiv:2606.09925*, 2026.
- Xiangyu Zhao**, Yaling Shen, Yiwen Jiang, Zimu Wang, Jiahe Liu, Maxmartwell H. Cheng, Guilherme C. Oliveira, Robert Desimone, Dominic Dwyer, and Zongyuan Ge. "It Hears, It Sees Too: Multi-Modal LLM for Depression Detection by Integrating Visual Understanding into Audio Language Models." *arXiv:2511.19877*, 2025.
- Xiangyu Zhao**, Sheng Wang, Zhiyun Song, Zhenrong Shen, Linlin Yao, Haolei Yuan, Qian Wang, and Lichi Zhang. "AdLER: Adversarial Training with Label Error Rectification for One-Shot Medical Image Segmentation." *Expert Systems with Applications*, 310:131224, 2026.
- Xiangyu Zhao**, Xi Ouyang, Lichi Zhang, Zhong Xue, and Dinggang Shen. "Exploiting Latent Classes for Medical Image Segmentation from Partially Labeled Datasets." *MICCAI*, 2024.
- Xiangyu Zhao**, Di Zang, Sheng Wang, Zhenrong Shen, Kai Xuan, Zeyu Wei, Zhe Wang, Ruizhe Zheng, Xuehai Wu, Zheren Li, Qian Wang, Zengxin Qi, and Lichi Zhang. "STBI-GAN: An Adversarial Learning Approach for Data Synthesis on Traumatic Brain Segmentation." *Computerized Medical Imaging and Graphics*, 112:102325, 2024.
- Xiangyu Zhao**, Zengxin Qi, Sheng Wang, Qian Wang, Xuehai Wu, Ying Mao, and Lichi Zhang. "RCPS: Rectified Contrastive Pseudo Supervision for Semi-Supervised Medical Image Segmentation." *IEEE Journal of Biomedical and Health Informatics*, 28(1):251-261, 2023.

7. **Xiangyu Zhao**, Zhenrong Shen, Dongdong Chen, Sheng Wang, Zixu Zhuang, Qian Wang, and Lichi Zhang. "One-Shot Traumatic Brain Segmentation with Adversarial Training and Uncertainty Rectification." *MICCAI*, 2023.
8. **Xiangyu Zhao**, Peng Zhang, Fan Song, Chenbin Ma, Guangda Fan, Yangyang Sun, Youdan Feng, and Guanglei Zhang. "Prior Attention Network for Multi-Lesion Segmentation in Medical Images." *IEEE Transactions on Medical Imaging*, 41(12):3812-3823, 2022.
9. **Xiangyu Zhao**, Peng Zhang, Fan Song, Guangda Fan, Yangyang Sun, Yujia Wang, Zheyuan Tian, Luqi Zhang, and Guanglei Zhang. "D2A U-Net: Automatic Segmentation of COVID-19 CT Slices Based on Dual Attention and Hybrid Dilated Convolution." *Computers in Biology and Medicine*, 135:104526, 2021.

HONORS AND AWARDS

Shanghai Outstanding Graduate	2024
First Prize, Master Student Scholarship, Shanghai Jiao Tong University	2022
Beijing Outstanding Graduate	2021
Meritorious Winner, COMAP Mathematical Contest in Modeling	2020
Second Prize (China) / First Prize (Beijing), CUMCM	2019
Merit Student and Academic Excellence Scholarship, Beihang University (three times)	2017 - 2020

TEACHING AND SERVICE

Teaching Assistant, Computer Vision in Biomedical Engineering	Spring 2022
Shanghai Jiao Tong University Shanghai, China	
Student Mentor	2018 - 2019
Beihang University Beijing, China	