Siyu Zhang

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Education

2022 – now **Ph.D. Computer Science, University of Bristol** in UK.
Research Fields: *HCI, Accessibility AI, AI Ethics, Multisensory*
Supervisor: Oussama Metatla, Kirsten Cater

2017 – 2018 **M.Sc. Computer Science, University of Bristol** in UK.
Research Field: *Voice Interaction.*
Supervisor: Aisling O'Kane

2011 – 2015 **B.Sc. Landscape Architecture, Sichuan Agricultural University** in China.

Employment History

2019 – 2022 **Founder & Lead Developer,** Chengdu Heimerdinger Technology Co., Ltd. in China
Selected client projects: *Sichuan Provincial Qinghai Chamber of Commerce Official Website, Chengdu Wenjiang National Agricultural Science and Technology Park Mini Program, Renshou County Federation of Trade Unions Mini Program...*

2015 – 2015 **Assistant interaction designer,** Lenovo Research (Chengdu), in China
Project involvement: *Lenovo Mobile Store, ZUI*

Research Publications

Conference Proceedings

1. S. Zhang, Y. Gu, K. Cater, and O. Metatla, "Beyond accuracy: Auditing allocative harms in facial-gesture recognition for people with motor impairments," in *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems*, [CCF-A], 2026, pp. 1–24.
2. S. Zhang, Y. Gu, X. Xu, K. Cater, and O. Metatla, "Adaptaface: Adversarial assistance for accessible facial-gesture interaction," in *ACM Symposium on User Interface Software and Technology (UIST), 2026.*, [CCF-A], 2026, pp. 1–17.

Manuscripts Under Review

- Dynamic Wearable Displays for Real-Time Machine-Vision Visibility Control
- Training-Free Input-Side Accommodation for Dysarthric Speech Recognition
- Understanding the Potential of Multisensory Experiences to Support Physical Activity in Dementia Care

Ongoing Research

- Governing AI Representation: Memory, Simulation, and Delegated Identity in Persistent AI Systems
- From Seeing to Sensing: LLM-based Cross-Sensory Translation for Accessible Visual Understanding

Review Experience

- CSCW, Ubicomp, DIS, ASSETS, MobileHCI