

Kaiyi Guo

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🌐 Mywebset

Research Interests

My research interests focus on **human-computer interaction**, **smart health**, **wireless sensing**. By exploring diverse sensing modalities, hardware form, I aspire to transform complex interactive techniques, once restricted to laboratory settings, into simpler, more universally applicable solutions in real-world scenarios.

Education

Shanghai Jiao Tong University

MS in Computer Science and Technology

Sept 2023 – Mar 2026

(Expected)

◦ GPA: 3.5/4.0

◦ *Advisor*: Prof. Dong Wang and Prof. Qian Zhang

Zhengzhou University

BS in Software Engineering

Sept 2019 – Jun 2023

◦ GPA: 3.8/4.0 (rank: 1/58)

◦ **Coursework**: Computer Architecture, Computer Network, Operate System

Publications

- C4. Kaiyi Guo***, Tianyu Wu*, Yang Gao, Qian Zhang, Dong Wang, **EchoTouch: Low-power Face-touching Behavior Recognition Using Active Acoustic Sensing on Glasses**, In Proceedings of ACM Interact. Mob. Wearable Ubiquitous Technol (IMWUT)/UbiComp'25.
- J1. Kaiyi Guo**, Qian Zhang, Dong Wang, **EchoExpress: Facial Expression Recognition in the Wild via Acoustic Sensing on Smart Glasses**, In Proceedings of IEEE Transactions on Mobile Computing (IEEE TMC).
- C3. Kaiyi Guo**, Qian Zhang, Dong Wang, **EchoBreath: Continuous Respiratory Behavior Recognition in the Wild via Acoustic Sensing on Smart Glasses**, In Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI'25, **Honorable Mention**).
- C2.** Qian Zhang, **Kaiyi Guo**, Yifei yang, Dong Wang, **WearSE: Enabling Streaming Speech Enhancement on Eyewear Using Acoustic Sensing**, In Proceedings of ACM Interact. Mob. Wearable Ubiquitous Technol (IMWUT)/UbiComp'25.
- C1.** Qian Zhang, Yubin Lan, **Kaiyi Guo**, Dong Wang, **Lipwatch: Enabling Silent Speech Recognition on Smartwatches using Acoustic Sensing**, In Proceedings of ACM Interact. Mob. Wearable Ubiquitous Technol (IMWUT)/UbiComp'24.

* Equal Contribution

Awards

CHI 2025 Honorable Mention

ACM SIGCHI

Service

External Reviewer

2025 – present

UbiComp'25, UIST'25

Teaching Experience

SE3303 Data Mining and Big Data Analytics

Spring'25

Teaching Assistant at Shanghai Jiao Tong University, Instructor: Prof. Dong Wang and Prof. Qian Zhang

EE8702 Internet of Things (IoT) Technology

Fall'24

Teaching Assistant at Shanghai Jiao Tong University, Instructor: Prof. Dong Wang and Prof. Qian Zhang

SE3303 Data Mining and Big Data Analytics

Spring'24

Teaching Assistant at Shanghai Jiao Tong University, Instructor: Prof. Dong Wang and Prof. Qian Zhang

Skills

Languages: C++, C, Python, Java

Technologies: Tensorflow, Pytorch