

Zhigu Qian

Email | [Homepage](#) | [Google Scholar](#)

No. 2005 Songhu Road, Shanghai, China

EDUCATION

- **School of Computer Science, Fudan University** 2017.9 - Present
Ph.D. Student Advisor: Prof. Yangfan Zhou
- **School of Social Development, East China Normal University** 2013.9 - 2017.6
Bachelor's Degree (with honor) GPA: 3.67/4.0 Ranking1/83

PROJECTS

- **Project A: [Age-Friendly Voice Interaction System for Mobile Applications]** 2023 - Present
Tools: [Large Language Models, Voice Recognition, Multi-modal Interface Design]
 - Developed an innovative voice interaction system enabling older adults to operate mobile applications through voice commands, leveraging large language models for enhanced accessibility
 - Optimized older adults' spoken command intent understanding, achieving accurate capture of instruction intentions through specialized model training
 - Constructed an age-friendly multi-turn dialogue generation model to efficiently capture missing task information, building complete task information chains
 - Implemented multi-modal feedback mechanisms to enhance older adults' understanding and trust in automated operations
 - Received **Silver Award** at Shanghai International Innovation and Entrepreneurship Competition; one research published in **IMWUT/Ubicomp2025**; with additional papers under review
- **Project B: [Technology Adoption and Design Among Elderly Social Media Users]** 2021 - Present
Tools: [Qualitative Analysis, User Behavior Analysis, Social Network Analysis]
 - Conducted comprehensive research on older adults' technology adoption patterns across two major Chinese platforms: Pinxiaoquan (social e-commerce) and Douyin (short video)
 - Analyzed social sharing behaviors and informal learning patterns among older adults to understand technology adoption mechanisms
 - Identified crucial role of socio-emotional factors in accelerating technology adoption and diffusion among older adults, beyond basic usability considerations
 - Published findings in prestigious venues including **CHI2024**, **CSCW2024**, and **CSCW2025**, contributing to understanding of age-friendly technology design

PUBLICATIONS

- [1] **Zhigu Qian, Jiaojiao Fu*, Yangfan Zhou.** (2025). **Seeking a Sense of Meaning and Companionship in Life: Informal Learning on Douyin Among Chinese Older Adults.** In *Proceedings of the ACM on Human-Computer Interaction(CSCW)*. [\[CCF A\]](#)
- [2] **Zhigu Qian, Jiaojiao Fu, Yangfan Zhou*.** (2025) **Exploring Cultural and Intergenerational Dynamics in Voice Assistant Design for Chinese Older Adults.** In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies(IMWUT/Ubicomp)*. [\[CCF A\]](#)
- [3] **Zhigu Qian, Jiaojiao Fu*, Yangfan Zhou.** (2024) **Gaining Technological Autonomy and Socio-emotional Support: A Case Study of How and Why Chinese Older Adults Engage with a Semi-acquaintance Online Community.** In *Proceedings of the ACM on Human-Computer Interaction(CSCW)*. [\[CCF A\]](#) **DEI Recognition**
- [4] **Zhigu Qian, Jiaojiao Fu*, Yangfan Zhou.** (2024) **Overcoming Barriers, Achieving Goals: A Case Study of an Older User's Technology Autonomy.** In *Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (CHI)*. [\[CCF A\]](#)

SERVICES

- **Reviewers:** CHI(2024), CSCW(2024)

HONORS AND AWARDS

- **Research on Elderly User Support, DEI Recognition at ACM CSCW** 2024
[Top 4.03%] 
- **Challenge Cup International College Students' Innovation Competition, Shanghai Division** 2024
[Silver Award] 
- **Ph.D. Qualification Examination, Fudan University** 2020
[First Prize Scholarship]
- **Chinese National Scholarship, East China Normal University** 2016
[Top 1%]