

# 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 Ranking 1/83

## 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

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- **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%]*