

# YUEHAN QIAO

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## RESEARCH INTERESTS

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- **Human-computer Interaction(HCI), Accessibility, Human-centered Artificial Intelligence**

## EDUCATION BACKGROUND

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### Ph.D. in Information Studies

2024-2029 Expected

College of Information, *University of Maryland, College Park*

- Advisor: Hernisa Kacorri
- GPA: 4.0/4.0

### M.A. in Information Art & Design

2021-2024

Academy of Arts & Design, *Tsinghua University*

- Thesis: Design and Research of Virtual Human Assistive Tool for Deaf and Hard-of-hearing E-commerce Live-streaming
- Committee: Haipeng Mi (advisor), Yingqing Xu, Zhigang Wang, Zhiyong Fu, Keyang Tang, Lie Zhang

### B.E. in Electronic Engineering

2017-2021

Department of Electronic Engineering, *Tsinghua University*

- Thesis: Recognition and Information Extraction of Wine Labels and Application Intergration
- Thesis Advisor: Yingqing Xu

## PROFESSIONAL EXPERIENCES

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### Apple R&D. Product Design Engineer Intern

11/2023-08/2024

Mac & Input Device Product Design Team, Shanghai Branch

- *Project:* Developing keyboard pressure detection and signal recognition system  
*Mentors:* Ming (Gavin) Gao and Chiachi (Jackie) Wu  
Designed and implemented mechanical and hardware systems for functional innovation and experience optimization of input devices.

### Tsinghua University. Executive Project Manager

12/2022-10/2023

The Future Laboratory

- *Project:* Optimization of Typing Experience for Zero-travel Keyboard  
*Collaborators:* Ming (Gavin) Gao and Xuyao Shi  
Developed and evaluated prototype to optimize user experience of vibrating keyboard.

### Tsinghua University. Research Assistant

09/2021-08/2023

The Future Laboratory

- *Project:* Leverage LLMs to support project-based learning in middle school classroom  
*Advisor:* Jiangtao Gong
- *Project:* Optimization of color display on mobile devices for different image categories  
*Advisor:* Qian Yao Xu  
*Collaborator:* Xiaomi Corporation
- *Project:* Olfactory perception and recognition on robotic dog: a solution based on MEMS gas sensor module  
*Advisors:* Qi Lu and Yingqing Xu

Collaborator: Xiaomi Corporation

## PUBLICATIONS

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### Peer-Reviewed Conference Papers:

- **Yuehan Qiao**, Zhihao Yao, Meiyu Hu, and Qian Yao Xu. 2025. *Virtual Co-presenter: Connecting Deaf and Hard-of-hearing Livestreamers and Hearing audience in E-commerce Livestreaming*. In Proceedings of In Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (CHI EA '25).
- Yunbing Chen, Ke Shen, Gang Yu, **Yuehan Qiao**, Xiangning Yan, Wuwei Zhang, and Yingqing Xu. 2022. *EEG-Based Artistic Visualization of Dreams*. In Proceedings of the Ninth International Symposium of Chinese CHI (Chinese CHI '21).

### Other Publications:

- **Yuehan Qiao**. 2024. *Design and Research of Virtual Human Assistive Tool for Deaf and Hard-of-hearing E-commerce Live-streaming*. Master's Thesis, Academy of Arts & Design, Tsinghua University.
- Zhihao Yao, **Yuehan Qiao**, Qian Yao Xu. 2023. *Research on Virtual Human Design in Smart Home*. Journal of Computer-Aided Design & Computer Graphics, 35(2): 221-229. (in Chinese)

## TEACHING EXPERIENCES

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- **Introduction to Programming for Information Science** (Undergraduate Level, 55 students) Spring 2025  
Graduate Teaching Assistant for INST126, University of Maryland  
Lead weekly discussions to review concepts, organize peer programming, and hold TA office hours.
- **Introduction to Programming for Information Science** (Undergraduate Level, 189 students) Fall 2024  
Graduate Teaching Assistant for INST126, University of Maryland  
Led weekly discussions to practice coding and held TA office hours.
- **Innovation Project-based Learning Summer Camps about Developing Low Carbon Campus** Summer 2023  
(Middle School, 2 summer camps with 80 students in total)  
Curriculum Development and Course Assistant, Tsinghua University  
Co-designed a summer camp with instructors and facilitated two summer camps for middle school students.
- **Art & Technology: From AI to NFTs** (Courses to the public) Fall 2022  
Course Assistant, Online live program held by Sotheby's  
Evaluated students' assignments and provided constructive feedback.
- **Advanced Information Technology and Application in Design** (Graduate Level, 20 students) Spring 2022  
Graduate Teaching Assistant, Tsinghua University  
Prepared course materials and evaluated students' projects.

## TALKS

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- Apple R&D. *Internship Midterm & Final Presentations* 2024  
Internal innovative prototype and tool set development.

## PROFESSIONAL AFFILIATION & MEMBERSHIP

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- Member of Association for Computing Machinery (ACM)  
Special Interest Group on Accessibility and Computing (SIGACCESS)  
Special Interest Group on Human-Computer Interaction (SIGCHI)