

YUEHAN QIAO

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RESEARCH INTERESTS

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

EDUCATION BACKGROUND

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*

PUBLICATIONS

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)

PROFESSIONAL EXPERIENCES

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
The Future Laboratory

12/2022-10/2023

- *Project:* Optimization of Typing Experience for Zero-travel Keyboard
Developed and evaluated prototype to optimize the user experience of vibrating keyboard.

Tsinghua University. Research Assistant
The Future Laboratory

09/2021-08/2023

- *Project:* Leverage LLMs to support project-based learning (PBL) in middle school classroom
Advisor: Jiangtao Gong
Explored how LLMs boost PBL and surveyed students' varied trust and complex perspectives on LLMs' impact on their creativity through two 48-hour LLM-involved PBL instructional programs for middle school students.
- *Project:* Optimization of color display on mobile devices for different image categories
Advisor: Qian Yao Xu
Collaborator: Xiaomi Corporation
Investigated the user preference for color display in different image content categories and built a dataset as well as a machine-learning-based solution on it.
- *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
Launched a robotic dog with olfactory perception for commercial use by using a novel electronic nose composed of 19 MEMS gas sensors.

TEACHING EXPERIENCES

- **Introduction to Programming for Information Science**
(Undergraduate Level, 55 students) Spring 2025
(Undergraduate Level, 189 students) Fall 2024
Graduate Teaching Assistant for INST126, University of Maryland
Led weekly discussions to review concepts, practice coding, organize peer programming, and hold TA office hours.
- **Innovation Project-based Learning Summer Camps about Developing Low Carbon Campus**
(Middle School, 2 summer camps with 80 students in total) Summer 2023
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** (Course 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

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

PROFESSIONAL AFFILIATION & MEMBERSHIP

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