

YUEHAN QIAO

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RESEARCH INTERESTS

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- 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 Papers:

- Siyu Zha, **Yuehan Qiao**, Qingyu Hu, Zhongsheng Li, Jiangtao Gong, and Yingqing Xu. 2025. *Designing child-centric AI learning environments: Insights from an LLM-powered creative project-based learning study.* International Journal of Human-Computer Studies 204: 103602.
- **Yuehan Qiao**, Zhihao Yao, Meiyu Hu, and Qianyao 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).
- Zhihao Yao, **Yuehan Qiao**, Qianyao Xu. 2023. *Research on Virtual Human Design in Smart Home.* Journal of Computer-Aided Design & Computer Graphics, 35(2): 221-229. (in Chinese)
- 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).

PROFESSIONAL EXPERIENCES

University of Maryland. Research Assistant

05/2025-now

IAMLab, College of Information

- Collaborating on the research about visual language models in the context of personalization with blind users.
- Conducting data analysis and contributing to writing for a study on teachable machine with children.

Apple. 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.
- Created internal tool to facilitate product collaborative optimization and review process between in-region and Cupertino.

Tsinghua University. Executive Project Manager
The Future Laboratory

12/2022-10/2023

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

Tsinghua University. Research Assistant
The Future Laboratory

09/2021-05/2024

- *Master's Thesis:* Virtual co-presenter for Deaf and hard-of-hearing e-commerce live-streaming
 - Identified both informational and emotional communication challenges between DHH livestreamers and hearing viewers.
 - Designed and iteratively refined a virtual co-presenter through workshops, and evaluated it in real-world livestreaming scenarios.
- *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: Qianyao 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.

TEACHING EXPERIENCES

- **Introduction to Programming for Information Science (INST126)**
(Undergraduate Level, 55 students in Spring 2025, 189 students in Fall 2024) 2024-2025
Graduate Teaching Assistant, 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
- **Advanced Information Technology and Application in Design (Graduate Level, 20 students)** Spring 2022
Graduate Teaching Assistant, Tsinghua University

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)