Yishu Ji

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Education

Georgia Institute of Technology   **Aug 2024 – May 2029 (expected)**
 Ph.D. in *Human-Centered Computing (HCC)*
 Advisor: *Prof.Cindy Xiong Bearfield*

Tsinghua University   **Aug 2019 – July 2024**
 B.Eng in *Industrial Engineering*   *GPA: 3.83/4.0*
 Minor in *Psychology*

Cornell University   **Jan 2023 – May 2023**
 Exchange Program in *Information Science*   *GPA: 4.11/4.3*

Publications

Fengyuan Liu, **Yishu Ji**, Xin Lei, Pei-Luen Patrick Rau. **"Responses to Human and Robot Errors in Human–robot Collaboration: An fNIRS Study"**. In: *Proceedings of the International Conference on Human-Computer Interaction*. HCII'24

Zhipeng Li, **Yishu Ji**, Ruijia Chen, Tianqi Liu, Yuntao Wang, Yuanchun Shi, Yukang Yan. **"Modelling Effects of Visual Attention on Noticeability of Body-Avatar Offsets in Virtual Reality"**. (Accepted by: *the CHI Conference on Human Factors in Computing Systems.* CHI'25)

Research Experience

Tsinghua Pervasive Human Computer Interaction Lab   **2022 – 2023**
Research Assistant, advised by *Prof.Yukang Yan* and *Prof.Yuanchun Shi*
○ Developed a computational model of user's perception of inconsistency in User-Avatar movement in VR.
○ Designed a user study and developed a **Unity 3D**-based study platform to conduct the experiment.
○ Performed statistic analysis of the experimental data to yield insights.

Cornell CIS Artifact Lab   **Summer 2023**
Research Assistant, advised by *Prof.Jeff Rzeszotarski*
○ Built up tools with large language models to assist data analysis and visualization.
○ Designed and implemented user studies to examine the assistive performance of models on data exploration.
○ Constructed behavioral models for data exploration processes, and developed design prototypes.

Related Course Projects

"Data Visualization Principles" – Final Project
○ Developed a webpage to visualize the traffic data of Atlanta.

"Qualitative User Research and Design Methods" – Final Project
○ Conducted a meta-research to help junior UX designers foster empathy with their users.

"HCI Theory and Technology" – Final Project
○ Developed an Android gallery APP to help users manage photos according to the context.

Honors and Awards

Magna Cum Laude of Tsinghua University (Top 10%)   **2024**

Tsinghua University "December 9th" Scholarship (Top 2%)   **2021**
○ The highest scholarship for sophomores in Tsinghua University.

Tsinghua University The Comprehensive Excellence Award (Top 15%) 2023, 2022, 2021, 2020

Skills

Data Processing and Analysis

Yishu Ji

- Applied statistical analysis (R, SPSS)
- Data visualization (Tableau)

Programming

- Programming language (Python, C, JavaScript, HTML) and Database system (SQL)
- Game engine (Unity)
- Machine learning framework and algorithm (sklearn, PyTorch)

Design and Experiment

- Human factor experiment design
- Qualitative (interview, participatory etc.) and quantitative (fNIRS, etc) research methods

Community Invlovement

Student Union of IE Department – Minister of Diplomacy   2021 – 2022