

# Yishu Ji

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## EDUCATION

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<b>Georgia Institute of Technology</b> <i>Ph.D. in Human-Centered Computing (HCC)</i>	Aug 2024 – present
<b>Tsinghua University</b> <i>B.Eng in Industrial Engineering &amp; Minor in Psychology</i>	Aug 2019 – July 2024
<b>Cornell University</b> <i>Exchange Program in Information Science</i>	Jan 2023 – May 2023

## PUBLICATIONS

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- [1] Yishu Ji, Reid Laughton, Duen Horng (Polo) Chau, Cindy Xiong Bearfield. "Capturing the Gist: How Data Approximation Algorithms Align with Human Perception in Time-Series Visualizations". [UNDER REVISION]: *IEEE Transactions on Visualization and Computer Graphics*. TVCG
- [2] Yancheng Cao, Yishu Ji, Yue Fu, Sahiti Dharmavaram, Meghan Turchioe, Natalie C Benda, Lena Mamykina, Yuling Sun, Xuhai "Orson" Xu. "More than Decision Support: Exploring Patients' Longitudinal Usage of Large Language Models in Real-World Healthcare Settings". [UNDER REVIEW]: *Proceedings of the CHI Conference on Human Factors in Computing Systems*. CHI'26
- [3] 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". In: *Proceedings of the CHI Conference on Human Factors in Computing Systems*. CHI'25
- [4] 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

## POSTERS & PRESENTATIONS

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- [5] Yishu Ji, Maria Kon, Andrew Lovett, Mark Livingston, Sangeet Khemlani, Yalong Yang, Cindy Xiong Bearfield. "Visualizing Motion Traces Enhances Pursuit Detection in Dynamic Scenes". Poster presented at: *The Annual Meeting of the Cognitive Science Society*. CogSci'25

## RESEARCH EXPERIENCE

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- Columbia SEA Lab - Supervisor: Prof.Orson Xuhai Xu** Summer 2025
- Leverage GenAI tools to make depression inference from wearable data.
  - Support data analysis for a longitudinal diary study exploring use of LLM in healthcare seeking journey [2].
- Gatech VisualizaXiong Lab – Supervisor: Prof.Cindy Xiong Bearfield** Aug 2024 – July 2025
- Conduct empirical studies to examine human perception towards approximated visualization [1].
  - Explore the impact of dynamic visual cues in pursuit detection [5].
- Tsinghua Pervasive HCI Lab – Supervisor: Prof.Yukang Yan** July 2022 – Sep 2023
- Designed a user study and developed a Unity 3D-based study platform to conduct the experiment. Developed a computational model of user's perception of inconsistency in User-Avatar movement in VR [3].
- Cornell CIS Artifact Lab – Supervisor: Prof.Jeff Rzeszotarski & Dr. Nathan Yan** Summer 2023
- Built up tools with LLM to assist data analysis and visualization.
  - Developed design prototype and conducted user study to verify its assistance on data exploration.
- Tsinghua IE HCI Lab – Supervisor: Prof.Pei-Luen Patrick Rau** Summer 2022
- Performed an experiment design and implemented the study platform with robot NAO. And conducted a user study with EEG to collect sensing and survey data in credit assignment in HRI scenarios [4].

## SKILLS

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### Data Processing and Analysis

- Applied statistical analysis (R, SPSS) and data visualization (Tableau)

# Yishu Ji

## Programming

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

## Design and Experiment

- User study design
- Qualitative (interview, participatory etc.) and quantitative (fNIRS, etc) research methods

## HONORS AND AWARDS

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Outstanding Undergraduate of Tsinghua University (Top 10%) 2024

Tsinghua University "December 9th" Scholarship (Top 2%, highest scholarship for Sophomores) 2021

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

## COMMUNITY INVOLVEMENT

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Georgia Tech Graduate Teaching Assistant – CS6730 Fall25

Georgia Tech School of Interactive Computing – IC Buddies Event Coordinator

Georgia Tech Visualization Group – Master student Mentor

Tsinghua Student Union of IE Department – Minister of Diplomacy