

Ching-Chih Amber Tsao

Research Assistant | Cornell University, NYC

ct649@cornell.edu
cctsao2000.github.io
[LinkedIn](#) | [Google Scholar](#)

RESEARCH STATEMENT

My research interests focus on **Human-AI Decision Making**, at the intersection of **Human-Robot Collaboration**, **Human-Centered AI**, and **Brain Dynamics**. My previous research projects utilized EEG analysis to assess users' trust behavior and decision-making strategies during human-robot collaboration.

EDUCATION

- Aug. 2023 –* **Dual M.S. in Applied Information Science and Information Systems**
May 2025 Cornell University, USA & Technion – Israel Institute of Technology, Israel
Connective Media Concentration, Merit-based Scholarship Recipient
Advisor: *Prof. Wendy Ju*
- Jun. 2023* **B.S. in Management Information Systems**
National Chengchi University, Taiwan
Advisor: *Prof. Shih-Yi Chien*

EXPERIENCES

- Jan. 2024 –* **Future Automation Research Lab, Cornell University**
Present Research Assistant, Advisor: *Prof. Wendy Ju*
- Researching on social discomfort and awkward silence on share-rides
- Dec. 2020 –* **Human-Automation Interaction Lab, National Chengchi University, Taiwan**
Aug. 2023 Research Assistant, Advisor: *Prof. Shih-Yi Chien*
EEG Team Lead (*Apr. 2021 - Aug. 2023*)
- Researched on the impact of **explainable AI** on building trust in **human-generative-AI collaboration**
 - Researched on the **decision-making** process in **human-robot collaboration** [[HICSS-56](#)]
 - Researched on **neuromarketing** strategies in human-robot interaction [[HRI'23](#)]
 - Researched on **topic modeling** the shifting research trends in the HRI fields [[HRI'22](#)]
 - Conducted workshop on **EEG data analysis**
- Jul. 2022 –* **Innovation R&D Department, Sinyi Realty Inc., Taiwan**
Aug. 2022 Data Analyst Summer Intern
- Developed the Address Plaque Recognition API: an **image recognition API** for collecting addresses, reduced time spent on typing addresses by 80%

PUBLICATIONS

Peer Reviewed Conference Papers

- [C4] [Human-Robot Interaction in E-Commerce: The Role of Personality Traits and Chatbot Mechanisms – A Neuromarketing Research](#)
Yu-Wen Chang, Shih-Yi Chien, Yao-Cheng Chan, [Ching-Chih Tsao](#) (Mar. 2024)
Comp. ACM/IEEE International Conference on Human-Robot Interaction (HRI '24). Boulder, CO.

- [C3] **The Influence of a Robot Recommender System on Impulse Buying Tendency**
Ching-Chih Tsao, Cheng-Yi Tang, Yu-Wen Chang, Yin-Hsuan Sung, Shih-Yi Chien, and Szu-Yin Lin (Mar. 2023)
Comp. ACM/IEEE International Conference on Human-Robot Interaction (HRI '23). 672-676. Stockholm.
- [C2] **Assessing the Decision-Making Process in Human-Robot Collaboration Using a Lego-like EEG Headset**
Ching-Chih Tsao, Hao-Hsiang Chuang, Tsu-Han Tsao, Cheng-Yi Tang, Yu-Wen Chang, Chih-Ling Chu, Chi-Chien Sung, Cheng-Lin Hsieh, Yuan-Pin Lin, and Shih-Yi Chien (Jan. 2023)
Proc. Hawaii International Conference on System Sciences (HICSS-56). 1529-1538. Maui, HI.
- [C1] **A Machine Learning Approach to Model HRI Research Trends in 2010~2021**
 Chan Hsu, Ching-Chih Tsao, Yu-Liang Weng, Cheng-Yi Tang, Yu-Wen Chang, Yihuang Kang, and Shih-Yi Chien (Mar. 2022)
Proc. ACM/IEEE International Conference on Human-Robot Interaction (HRI '22). 812-815. Online.

SERVICES

Teaching Assistant	Break through Tech - AI Studio , Cornell University	2023
	<ul style="list-style-type: none"> Mentored 20+ undergraduate student on their ML projects Meet twice a month with 4 groups of students to provide suggestions on improving models' performance and keep track on the projects' progress 	
Workshop Speaker	Introduction to Computer Science , National Chengchi University	2022
	<ul style="list-style-type: none"> Introduced git and front-end web development in class 	
Reviewer	Introduction to EEG Analysis , National Chengchi University	2023
Student Ambassador	Alt. CHI 2023, HRI 2023	
	Cornell Tech Student Ambassador	2023
	UNESCO Hong Kong SDGs Ambassador (Golden Merits)	2018

HONORS AND AWARDS

Conference Travel Grants – HRI'24, Boulder, CO, USA	2024
Merit-based Scholarship, Cornell University	2023
Research Scholarship, NSTC of Taiwan	2021 - 2023
Conference Travel Grants – HICSS-56, Maui, HI, USA	2022
Academic Excellence Award, National Chengchi University (Ranked #1/80)	2020

SKILLS

Programming Languages	Python, MATLAB, JavaScript, Java, R, Swift
Tools	Emotiv, EEGLAB, TensorFlow, PyTorch , Selenium, Git, Figma, jQuery
Languages	English, Mandarin