

Ching-Chih Amber Tsao

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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	Alt. CHI 2023, HRI 2023	2023
Student Ambassador	Cornell Tech Student Ambassador	2023
	UNESCO Hong Kong SDGs Ambassador (Golden Merits)	2018

HONORS AND AWARDS

Conference Travel Grant – HRI'24, Boulder, CO, USA	2024
Merit-based Scholarship, Cornell University	2023
Research Scholarship, NSTC of Taiwan	2021 - 2023
Conference Travel Grant – 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