

# Xiang Chang

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## EDUCATION

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**Cornell Tech (Cornell University)**—New York, NY, USA Aug. 2024–May. 2026 (Expected)  
Jacobs Technion-Cornell Dual Master of Science Degrees – Connective Media Concentration 4.0/4.3

**Sichuan University**—Chengdu, Sichuan, China Sept. 2019–July. 2023  
Bachelor of Management in Information Resource Management 3.75/4.0

## SELECTED PUBLICATIONS

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- [1] "It Must Be Gesturing Towards Me": Gesture-Based Interaction between Autonomous Vehicles and Pedestrians. (CHI '24). [1st author]
- [2] The Formation of Trust in Autonomous Vehicles after Interacting with Robotaxis on Public Roads. (ASPIRE 2025). [1st author]
- [3] Socially Adaptive Autonomous Vehicles: Effects of Contingent Driving Behavior on Drivers' Experiences (AutomotiveUI 2025). [2nd author]
- [4] From Driver to Passenger: Understanding Evaluation Gaps in 'Fantastic' Driving Behaviour Delivery. (CSCW 2026 Under Review). [co-1st author]

## RESEARCH EXPERIENCE

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**Visiting Student Researcher, Stanford University** Jun. 2025–Aug. 2025

• **Mind-Wandering in Drive:** Designed VR study on mind-wandering and integrated real-time eye-tracking and PPG with event tagging and HRV features. (*Advisors: Rebecca Currano, Mark Cutkosky*)

**Keywords:** Unity, Tobii XR, PPG, NeuroKit2, HRV, BMW Group.

**Graduate Researcher, Cornell University** Aug. 2024–Present

• **Human Driver × AV Negotiation:** designed simulator experiments on contingent driving; built pipelines for behavioral, physiological, and self-report analysis driving. (*Advisors: Wendy Ju*)

• **Robotic Crash Cart (HRI):** built a Wizard-of-Oz voice and light feedback hardware system; led study operations and mixed-methods analysis. (*Advisor: Angelique Taylor*)

**Keywords:** Unity, ROS, ATLAS.ti, SPSS/R.

**Research Assistant, Hong Kong University of Science and Technology** Oct. 2023–Jan 2025

• **Pedestrian–Robotaxi Trust:** Quantified how real on-street encounters with commercial L4 robotaxis change pedestrian trust. (*Advisor: Dengbo He*)

**Keywords:** SPSS/R, Eye-Tracking, physiological signals, Event-Related Potential, L4 Robotaxi, Pony.ai.

**Research Assistant, Tsinghua University** Mar. 2023–Sept. 2023

• **Multimodal expert driving dataset:** Built a real-world urban driving dataset to model expert-like autonomy, fusing EEG, eye-tracking, physiology, CAN-bus, video, and passenger feedback.

• **Gesture-based eHMI ("Virtual Hand"):** Designed and validated gesture-based eHMI that improves pedestrians' understanding of AV intent and perceived crossing safety. (*Advisor: Jiangtao Gong*)

**Keywords:** Unreal, Python, Eye-Tracking, EDA, PPG, Qualitative analysis, Carla, Baidu Apollo.

## AWARD

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**Gary Marsden Travel Awards,** The ACM Special Interest Group on Computer-Human Interaction

**Best Paper Award,** International Conference on Electronic Business (ICEB 2021)

**Uniqlo Scholarship for Academic Excellence,** SCU (2021, 5/10,000 in university)

**Merit-based Scholarship,** SCU (2019-2020, 2020-2021, top 10% in department)

## ACADEMIC SERVICES

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**Peer Review Experience:** CHI 23, 24, 25, 26, Transportation Research Part F, AutoUI2025

**Session Chair:** ASPIRE 2025