

# CHANG, HUNG-CHUN

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## Education

National Taiwan University	2025 — present
M.Sc. Psychology	

  

National Taiwan University	2019 — 2025
B.Sc. Interdisciplinary Studies of Human-Computer Interaction & Forestry, Minor Psychology	

## Research Experience

Social Lab HRI group	Research Assistant	November 2022 — present
→ Prof. Hsiu Ping, Yueh		National Taiwan University
• Developed system individually in 5+ projects on human-robot interaction.		
• Held 2 workshops on multimodal data analysis and voice-based social robot.		
• Organized 2 training program for undergrad student.		
• Authored bachelor thesis research, conducted user research over 28 sessions with 7 older adults, and finished 4 system iteration individually.		
Classies on Social Robotics	Teaching Assistant	Februry 2025 — present
→ Prof. Hsiu Ping, Yueh		Department of Psychology, NTU
• Held workshop for more than 18 hours over 11 students to acknowledge necessary literature review, user test and research, prototyping and programming skills for designing meaningful social robotic systems.		
• Coauthored with 2 conference poster along with the class.		

## Awards

Cathay Eminent Prize	For designing and implementing conversation robot towards older adults	2025
Startup Pirze		2024

## Research Projects

ECRobot, an ITS robot	System Developer	September, 2025 — present
• The System containing an iPad app(swift) for handwriting input, NAO app(qi python) for voice user interface(VUI), and backend(fast-api python) for organizing information and providing feedback.		
• Designed empathetic algorithm based on prospect theory.		
TouchHear, an AR assistive learning system	System Developer	September, 2025 — present
• Developed TouchHear system as learning tools for visually impaired student. The system provides audio feedback as the student touches the dotted figures.		
Social Robot as Museum Guide	link	Februry, 2025 — present
• A project description on its own line so that it can be pretty long, though I can't think of what to write here.		
XiaoXiao, a companion robot	Front-end Developer	Mar, 2024 — Dec, 2025
• Developed XiaoXiao VUI system, with intriguing background story, allowing older adults to continually talk with over 40 minutes on average.		

## Technical Skills

Programming Languages	Python, Java, Matlab, L <sup>A</sup> T <sub>E</sub> X & T <sub>E</sub> X
Languages	Mandarin, English, Japanese

## Selected Course Work

Robotics	Experimental & Computational Psychology	Human-Computer Interaction
Introduction to Robotics	Psychology and Neuroinformatics	HCI Design
Robot Vision	Neural and Behavioral Model Construction	HCI and User Research
Natural Language Processing	Methods of Psychological Experiments	Gerontechnology Design Seminar
Social Robots	Experiment Design	Interactive Design
Social Robot Special Topics	Statistics in Psychology and Education	Game of Life