

Ching-Wen Hung

Ph.D. candidate at Graduate Institute of Networking and Multimedia, National Taiwan University

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Research Interests

- Human-Computer Interaction (HCI), Embodied Interaction, Haptic/Gesture, Virtual/Augmented Reality (VR/AR), Inclusive Design, Perception and Behavior, Novel Techniques and Interaction

Education

- **National Taiwan University** **Taipei, Taiwan**
Ph.D. in Computer Science
Advisor: Bing-Yu Chen *Mar. 2020 -*
- **National Taiwan University** **Taipei, Taiwan**
Master in Information Management and MBA
Advisor: Bing-Yu Chen *Sep. 2018 - Feb. 2020*
- **National Central University** **Taoyuan, Taiwan**
Bachelor in Information Management *Sep. 2014 - Jun. 2018*

Research Experiences

- **Visiting Faculty Assistant - Embodied Dynamics Laboratory** *Oct. 2023 - Sep. 2024*
University of Maryland, College Park, Maryland, USA
Supervisor: Jun Nishida
- **Research Assistant - Communications and Multimedia Laboratory** *Sep. 2018 - Aug. 2023*
National Taiwan University, Taipei, Taiwan
Supervisor: Bing-Yu Chen

Publications

- **TacNote: Tactile and Audio Note-Taking for Non-Visual Access**
Wan-Chen Lee, **Ching-Wen Hung**, Chao-Hsien Ting, Peggy Chi, Bing-Yu Chen
In Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2023). (oral present) [accepted rate: 25.1%]
- **Puppeteer: Exploring Intuitive Hand Gestures and Upper-Body Postures for Manipulating Human Avatar Actions**
Ching-Wen Hung, Ruei-Che Chang, Hong-Sheng Chen, Chung-Han Liang, Liwei Chan, Bing-Yu Chen
In Proceedings of the ACM Symposium on Virtual Reality Software and Technology (VRST 2022). (oral present) [accepted rate: 26.7%]
- **OsciHead: Simulating Versatile Force Feedback on an HMD by Rendering Various Types of Oscillation**
Ching-Wen Hung, Hsin-Ruey Tsai, Chi-Chun Su, Jui-Cheng Chiu, Bing-Yu Chen
In Proceedings of the ACM Human-Computer Interaction with Mobile Devices and Services (MobileHCI 2022).
In Proceedings of the ACM on Human-Computer Interaction (PACMHCI 2022). (oral present) [accepted rate: 36%]
- **ElastOscillation: 3D Multilevel Force Feedback for Damped Oscillation on VR Controllers**
Hsin-Ruey Tsai, **Ching-Wen Hung**, Tzu-Chun Wu, Bing-Yu Chen
In Proceedings of the ACM Human-Computer Interaction (CHI 2020). (oral present) [accepted rate: 24.31%]

Projects, Posters, Demos

- **FingerPuppet: Finger-Walking Performance-based Puppetry for Human Avatar**
Ching-Wen Hung, Chung-Han Liang, Bing-Yu Chen
In Proceedings of the ACM Human-Computer Interaction (CHI 2024 Late-Breaking Work). [accepted rate: 33.88%]
- **Puppeteer: Manipulating Human Avatar Actions with Intuitive Hand Gestures and Upper-Body Postures**
Ching-Wen Hung, Ruei-Che Chang, Hong-Sheng Chen, Chung Han Liang, Liwei Chan, Bing-Yu Chen
In Proceedings of the ACM Symposium on User Interface Software and Technology (UIST Adjunct 2022).
- **Tonopoly: A Monopoly-like Board Game with Toio**
Chi-Huan Chiang, **Ching-Wen Hung**
In Proceedings of the ACM Symposium on User Interface Software and Technology (UIST Student Innovation Contest 2021).
- **Demonstration of ElastOscillation: A VR Controller Providing 3D Multilevel Feedback for Damped Oscillation**
Ching-Wen Hung, Hsin-Ruey Tsai, Tzu-Chun Wu, Bing-Yu Chen
In Proceedings of the ACM Human-Computer Interaction (CHI Extended Abstracts 2020).

Technical Reports

- **Embodied Interaction: Enhancing Immersive Interaction in Virtual and Physical Realities**
Seminar Talk at National Chung Cheng University (Chiayi, Taiwan) 2024
- **PhD Research in HCI: Exploring Embodied Interaction and Funding Opportunities in Taiwan**
Podcast (Online) 2024
- **TacNote: Tactile and Audio Note-Taking for Non-Visual Access**
UIST 2023 (San Francisco, California, USA)
TAICHI 2023 (Taipei, Taiwan)
- **Puppeteer: Exploring Intuitive Hand Gestures and Upper-Body Postures for Manipulating Human Avatar Actions**
VRST 2022 (Tsukuba, Japan)
TAICHI 2022 (Hsinchu, Taiwan)
- **Puppeteer: Manipulating Human Avatar Actions with Intuitive Hand Gestures and Upper-Body Postures**
UIST 2022 Adjunct (Bend, Oregon, USA)
- **OsciHead: Simulating Versatile Force Feedback on an HMD by Rendering Various Types of Oscillation**
MobileHCI 2022 (Online Virtual Conference)
TAICHI 2021 (Online Virtual Conference)
- **ElastOscillation: 3D Multilevel Force Feedback for Damped Oscillation on VR Controllers**
CHI 2020 (Online Virtual Conference)
UTokyo-NTU Joint Conf 2019 (Tokyo, Japan)

Teaching Certifications

- English-Medium Instruction (EMI) Teaching Assistant Certification, National Taiwan University, Spring 2026
- Mandarin-Medium Teaching Assistant Certification, National Taiwan University, Spring 2020

Teaching Experiences

- **Teaching Assistant**
 - **Multimodal Human-Computer Interaction** *National Taiwan University* Feb. 2026 - Jun. 2026
Instructor: Shan-Yuan Teng
 - * English-medium instruction (EMI) course
 - * Led workshop sessions and delivered lectures in English (EMI)

- **Game Programming** *National Taiwan University* *Sep. 2025 - Dec. 2025*
 Instructor: Ken-Yi Lee, Bing-Yu Chen
 - * Mandarin-medium instruction course
 - * Assisted with grading and course administration
 - * Coordinated the final project demo workshop, facilitating student presentations and assessment by instructors and invited industry professionals
- **Human Computer Interaction in Industry** *National Taiwan University* *Sep. 2022 - Dec. 2022*
 Instructor: Peggy Chi
 - * English-medium instruction (EMI) course
 - * Facilitated student discussions and project development for industry-oriented HCI topics
 - * Provided feedback and guidance on final project presentations
- **Creative and Design Thinking** *National Taiwan University* *Mar. 2020 - Jun. 2020*
 Instructor: Bing-Yu Chen
 - * Mandarin-medium instruction course for executive entrepreneurship program students (NTU EiMBA)
 - * Facilitated two-day design thinking workshops
 - * Assisted with team formation, activity coordination, and final presentations
- **Internet Technology in E-Commerce** *National Central University* *Sep. 2017 - Jan. 2018*
 Instructor: Kuen-Liang Su, Shi-Jen Lin
 - * Mandarin-medium instruction course (In-service Master's Program)
 - * Supported classroom coordination and course administration for working professionals
 - * Assisted with group organization, attendance tracking, and grading records

Awards and Grants

- **Ph.D. Students Study Abroad Program** *2023 - 2024*
 Visiting Faculty Assistant at the Department of Computer Science, University of Maryland, College Park
National Science and Technology Council, Taiwan
- **UIST Travel Award** *Oct. 2022*
ACM UIST
- **Subsidy for Domestic Graduate Students to Attend International Academic Conferences** *2022*
National Science and Technology Council, Taiwan
- **Fellowship for Outstanding Ph.D. Student** *Sep. 2020 - Aug. 2024*
Ministry of Science and Technology, Taiwan
- **Fellowship for Students of the Direct Pursuit of Ph.D. Degree** *Mar. 2020 - Aug. 2020*
National Taiwan University, Taiwan
- **Dean's List Award** *Sep. 2015 - Jun. 2017*
National Central University, Taiwan

Leadership

- **Demo Chair for TAICHI 2026**
- **Demo Chair for TAICHI 2025**
- **Demo Chair for TAICHI 2023**
- **Host for TAICHI 2022 - Women in STEM Luncheon**
- **Program Chair for TAICHI 2022**
- **Host for TAICHI x UIST Online Meeting 2021**
- **Student Volunteer for Ubicomp 2021** (Online Virtual Conference)
- **Student Volunteer for CHI 2021** (Online Virtual Conference)
- **Student Volunteer for TAICHI 2019**
- **Project Leader for Robin Lab 2020 - 2023**

- Instructor for Robin Lab HCIxGraphics Workshop 2020 - 2022
- Instructor for Robin Lab HCI Workshop 2019

Professional Services

- **Committee:**
 - TAICHI 2026 Demo Chair
 - TAICHI 2025 Demo Chair
 - TAICHI 2023 Demo Chair
 - TAICHI 2022 Program Chair
- **Reviewer:**
 - AHs 2026
 - CHI 2026 & Poster
 - SIGGRAPH ASIA 2025 ET
 - TAICHI 2025 Demo
 - CGW 2025
 - UIST 2025
 - CHI 2025
 - TAICHI 2024
 - CHI 2024 LBW
 - TAICHI 2023
 - CHI 2023 LBW
 - AHs 2023
 - TAICHI 2022
 - TAICHI 2021

Student Mentoring

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|---|------------------------------|
| • Che-Wei Hsu , <i>Undergraduate Student</i> , National Taiwan University | <i>Jul. 2025 -</i> |
| • Wei-Tang Hsu , <i>Undergraduate Student</i> , National Taiwan University | <i>Jul. 2025 -</i> |
| • Bo-Ru Chen , <i>Master Student</i> , National Taiwan University | <i>Jul. 2025 -</i> |
| • Po-Ying Hsu , <i>Master Student</i> , National Taiwan University | <i>Dec. 2024 - Jul. 2025</i> |
| • Wan-Chen Lee , <i>Master Student</i> , National Taiwan University | <i>Dec. 2022 - Oct. 2023</i> |
| • Min-Rui Li , <i>Master Student</i> , National Taiwan University | <i>Feb. 2023 - Jun. 2023</i> |
| • Wei-Xun Huang , <i>Master Student</i> , National Taiwan University | <i>Feb. 2023 - Jun. 2023</i> |
| • Hong-Sheng Chen , <i>Master Student</i> , National Taiwan University | <i>Nov. 2021 - Apr. 2022</i> |
| • Chung Han Liang , <i>Master Student</i> , National Taiwan University | <i>Nov. 2021 - Apr. 2022</i> |
| • Chi-Chun Su , <i>Master Student</i> , National Taiwan University | <i>Aug. 2020 - Aug. 2021</i> |
| • Jui-Cheng Chiu , <i>Undergraduate Student</i> , National Taiwan University | <i>Aug. 2020 - Apr. 2021</i> |

References

- **Bing-Yu Chen**
Distinguished Professor at Department of Computer Science and Information Engineering / Department of Information Management / Graduate Institute of Networking and Multimedia, National Taiwan University
Email: robin@ntu.edu.tw
- **Liwei Chan**
Associate Professor at Institute of Computer Science and Engineering, National Yang Ming Chiao Tung University
Email: liweichan@cs.nycu.edu.tw