

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 and Gesture Interfaces, Virtual/Augmented Reality (VR/AR), Perception and Inclusive Interactive Systems

Education

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

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).

Invited Talks and Presentations

- **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, 2026
- Mandarin-Medium Teaching Assistant Certification, National Taiwan University, 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)

<ul style="list-style-type: none"> – Game Programming <i>National Taiwan University</i> Instructor: Ken-Yi Lee, Bing-Yu Chen <ul style="list-style-type: none"> * 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 <i>National Taiwan University</i> Instructor: Peggy Chi <ul style="list-style-type: none"> * 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 <i>National Taiwan University</i> Instructor: Bing-Yu Chen <ul style="list-style-type: none"> * 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 <i>National Central University</i> Instructor: Kuen-Liang Su, Shi-Jen Lin <ul style="list-style-type: none"> * 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 	<i>Sep. 2025 - Dec. 2025</i> <i>Sep. 2022 - Dec. 2022</i> <i>Mar. 2020 - Jun. 2020</i> <i>Sep. 2017 - Jan. 2018</i>
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Student Mentoring

<ul style="list-style-type: none"> • Che-Wei Hsu, <i>Undergraduate Student</i>, National Taiwan University • Wei-Tang Hsu, <i>Undergraduate Student</i>, National Taiwan University • Bo-Ru Chen, <i>Master Student</i>, National Taiwan University • Po-Ying Hsu, <i>Master Student</i>, National Taiwan University • Wan-Chen Lee*, <i>Master Student</i>, National Taiwan University • Min-Rui Li, <i>Master Student</i>, National Taiwan University • Wei-Xun Huang, <i>Master Student</i>, National Taiwan University • Hong-Sheng Chen*, <i>Master Student</i>, National Taiwan University • Chung Han Liang*, <i>Master Student</i>, National Taiwan University • Chi-Chun Su*, <i>Master Student</i>, National Taiwan University • Jui-Cheng Chiu*, <i>Undergraduate Student</i>, National Taiwan University 	<i>Jul. 2025 -</i> <i>Jul. 2025 -</i> <i>Jul. 2025 -</i> <i>Dec. 2024 - Jul. 2025</i> <i>Dec. 2022 - Oct. 2023</i> <i>Feb. 2023 - Jun. 2023</i> <i>Feb. 2023 - Jun. 2023</i> <i>Nov. 2021 - Apr. 2022</i> <i>Nov. 2021 - Apr. 2022</i> <i>Aug. 2020 - Aug. 2021</i> <i>Aug. 2020 - Apr. 2021</i>
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* Co-authored peer-reviewed publications.

Academic and Co-Curricular Teaching

<ul style="list-style-type: none"> • Programming Instructor and Executive Member, NCU Big Data and Programming Society <ul style="list-style-type: none"> – Delivered programming workshops (Web, Android, Linux) for undergraduate students – Developed instructional materials and hands-on coding exercises • C Programming Instructor, 21st NCU MIS Camp <ul style="list-style-type: none"> – Designed and delivered introductory C programming workshops for high school students – Developed course materials and interactive programming activities 	<i>2016–2017</i> <i>2015</i>
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Awards and Grants

<ul style="list-style-type: none"> • Ph.D. Students Study Abroad Program <ul style="list-style-type: none"> Visiting Faculty Assistant at the Department of Computer Science, University of Maryland, College Park <i>National Science and Technology Council, Taiwan</i> 	<i>2023 - 2024</i>
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- **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

- Project Leader, CMLab (Robin Group) *2020 - 2023*
- Instructor, CMLab (Robin Group) HCIxGraphics Workshop *2020 - 2022*
- Instructor, CMLab (Robin Group) HCI Workshop *2019*
- Host, TAICHI 2022 – Women in STEM Luncheon *2022*
- Host, TAICHI x UIST Online Meeting *2021*

Professional Services

- Conference Committee Roles
 - TAICHI 2026 – Demo Chair
 - TAICHI 2025 – Demo Chair
 - TAICHI 2023 – Demo Chair
 - TAICHI 2022 – Program Chair
- Reviewer
 - AHs 2026
 - CHI 2026 (Papers & Posters)
 - 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 Volunteer
 - Ubicomp 2021
 - CHI 2021
 - TAICHI 2019

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