

# Ching-Wen Hung

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

Email: [ching-wenh@sigchi.org](mailto:ching-wenh@sigchi.org)

Phone: (+886)975-016-313

Website: <https://kihosi.github.io/>

## Research Interests

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- Human-Computer Interaction (HCI), Embodied Interaction, Haptic and Gesture Interfaces, Virtual/Augmented Reality (VR/AR), Perception and Inclusive Interactive Systems

## Education

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- **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

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- **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

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- **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

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- **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

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- **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

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

## Teaching Experiences

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- **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

## Student Mentoring

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

\* Co-authored peer-reviewed publications.

## Academic and Co-Curricular Teaching

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- Programming Instructor and Executive Member, NCU Big Data and Programming Society *2016–2017*
  - Delivered programming workshops (Web, Android, Linux) for undergraduate students
  - Developed instructional materials and hands-on coding exercises
- C Programming Instructor, 21st NCU MIS Camp *2015*
  - Designed and delivered introductory C programming workshops for high school students
  - Developed course materials and interactive programming activities

## Awards and Grants

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- **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

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- **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

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- **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

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- **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](mailto: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](mailto:liweichan@cs.nycu.edu.tw)