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, Haptics, Virtual/Augmented Reality (VR/AR), Perception and Behavior, Novel Techniques and Interaction

Education

- **National Taiwan University** — **Taipei, Taiwan**
  Ph.D. in Computer Science — *Mar. 2020 -*
  Advisor: Bing-Yu Chen

- **National Taiwan University** — **Taipei, Taiwan**
  Master in Information Management and MBA — *Sep. 2018 - Feb. 2020*
  Advisor: Bing-Yu Chen

- **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**
  <u>Ching-Wen Hung</u>, 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**
  <u>Ching-Wen Hung</u>, 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, <u>Ching-Wen Hung</u>
  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**
  <u>Ching-Wen Hung</u>, 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 Experiences

- **Teaching Assistant**
  - **Human Computer Interaction in Industry** *National Taiwan University*   *Sep. 2022 - Dec. 2022*
    Instructor: Peggy Chi
  - **Creative and Design Thinking** *National Taiwan University*   *Mar. 2020 - Jun. 2020*
    Instructor: Bing-Yu Chen
  - **Internet Technology in E-Commerce** *National Central University*   *Sep. 2017 - Jan. 2018*
    Instructor: Kuen-Liang Su, Shi-Jen Lin

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 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 2025 Demo Chair
  - TAICHI 2023 Demo Chair
  - TAICHI 2022 Program Chair
- **Reviewer:**
  - TAICHI 2025
  - CGW 2025
  - UIST 2025
  - CHI 2025
  - TAICHI 2024
  - CHI 2024 LBW
  - TAICHI 2023
  - CHI 2023 LBW
  - AHs 2023
  - TAICHI 2022
  - TAICHI 2021

Student Mentoring

- **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*

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