

# 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), Embodiment Interaction, Wearable Computing, Haptics, Virtual/Augmented Reality (VR/AR), Robotics, Perception and Behavior, Novel Techniques

## 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 - Embodiment 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)
- 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)
- 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)
- 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)

## Projects, Posters, Demos

- 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  
*UIST Adjunct 2022*

- **Tonopoly: A Monopoly-like Board Game with Toio**  
Chi-Huan Chiang, **Ching-Wen Hung**  
*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  
*CHI Extended Abstracts 2020*

## Technical Reports

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- **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

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- **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

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- **Graduate 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 -*  
*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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- 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

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- **Committee:**
  - TAICHI 2023 Demo Chair
  - TAICHI 2022 Program Chair
- **Reviewer:**
  - TAICHI 2023
  - CHI 2023 LBW
  - AHs 2023
  - TAICHI 2022
  - TAICHI 2021

## Student Mentoring

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|---|------------------------------|
| • 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

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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)
- **Jun Nishida**  
Assistant Professor at Department of Computer Science, University of Maryland, College Park  
**Email:** [jun.nishida@acm.org](mailto:jun.nishida@acm.org)