

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

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## 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 - June 2018*

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## Research Experiences

- **Research Assistant - CMLab, National Taiwan University**, Taipei, Taiwan *Sep 2018 -*  
Supervisor: Bing-Yu Chen

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## Publications

- **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)

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## Projects and 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 and Preprints

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- **ElastOscillation: 3D Multilevel Force Feedback for Damped Oscillation on VR Controllers**  
CHI 2020 (Online Virtual Conference)  
UTokyo-NTU Joint Conf 2019

## 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 - June 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** *2022*  
Visiting Faculty Assistant at the Department of Computer Science, University of Maryland, College Park during 2023 - 2024  
*National Science and Technology Council, Taiwan*
- **UIST Travel Award** *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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- **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**

## Reviewer

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- CHI 2023 LBW
- AHs 2023
- TAICHI 2022
- TAICHI 2021

## Student Mentoring

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- **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

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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)