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

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*

Research Experiences

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

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)

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

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

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 - 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

- **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

- **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**
- **Instructor for Robin Lab HCIxGraphics Workshop 2020 - 2022**
- **Instructor for Robin Lab HCI Workshop 2019**

Reviewer

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

Student Mentoring

- **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

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