Ching-Wen Hung

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

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

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

Ph.D. in Computer Science Advisor: Bing-Yu Chen

• National Taiwan University

Master in Information Management and MBA

Advisor: Bing-Yu Chen

• National Central University

Bachelor in Information Management

Taipei, Taiwan

Mar. 2020 -

Taipei, Taiwan

Sep. 2018 - Feb. 2020

Taoyuan, Taiwan

Sep. 2014 - Jun. 2018

Research Experiences

• Research Assistant - Communications and Multimedia Laboratory (CMLab)

Sep. 2018 -

National Taiwan University, Taipei, Taiwan

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, 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

• 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

• 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 ACM UIST

Oct. 2022

- Subsidy for Domestic Graduate Students to Attend International Academic Conferences 2022 National Science and Technology Council, Taiwan
- Fellowship for outstanding Ph.D. student Ministry of Science and Technology, Taiwan

Sep. 2020 -

• 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
- 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 2023 Demo Chair
- TAICHI 2022 Program Chair

• Reviewer:

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

Student Mentoring

• 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

• Jun Nishida

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