

Changhyeon Park

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Daejeon, Republic of Korea

EDUCATION

- **KAIST (Korea Advanced Institute of Science and Technology)** Mar. 2024 - present
M.S. in Graduate School of Culture Technology
◦ Advisor: [Prof. Sang Ho Yoon](#) Daejeon, S.Korea
- **Hongik University** Mar. 2018 - Feb. 2024
B.S. in Computer Engineering
◦ GPA: 4.13/4.5 Seoul, S.Korea
◦ Advisor: [Prof. Jaeyoung Park](#)

RESEARCH INTERESTS

Haptics & Sensing I am interested in pervasive computing environments that are seamlessly integrated into our daily lives, maximizing immersive experiences. My research aims to interpret user context by leveraging physiological data from wearable and mobile devices, and to enhance interaction through intuitive haptic feedback based on this understanding. **I am currently interested in utilizing sensing techniques to provide high-dimensional haptic feedback.**

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [J.3] **Changhyeon Park**, Yubin Lee, and Sang Ho Yoon. (2025). **UltraBoard: Always-available Wearable Ultrasonic Mid-air Haptic Interface for Responsive and Robust VR Inputs**. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol.* 9, 2, Article 44 (June 2025), 31 pages. <https://doi.org/10.1145/3731413>
- [J.2] **C. Park**, S. Hong and J. Park, (2024). **Effect of Rendering Virtual Vibrotactile Motion on the Perceived Lateral Force**. *IEEE Access*, vol. 12, pp. 173792-173799, doi: 10.1109/ACCESS.2024.3502903.
- [J.1] **C. Park**, J. Park, (2024). **Virtual Object Weight Information with Multi-modal Sensory Feedback during Remote Manipulation**. *Journal of Internet Computing and Services*, 25(1), 9–15.
<https://doi.org/10.7472/JKSII.2024.25.1.9>
- [C.2] **C. Park***, Y. Sung, S. Yoon, (2024). **VRmoji: Natural Avatar Movement based on Real-time Facial Expression Recognition System**. *Korea Computer Congress*, 1468-1470.
- [C.1] **C. Park**, N. Yoon, J. Park, (2022). **A Multi-Finger Haptic Interface Rendering Resistive Force Using Apparent Tactile Motion**. *Korean Society of Mechanical Engineers*, 2805-2807.

PROJECTS

- **Ultrasonic Hand Gesture Classification for Realtime interactive music control** Mar. 2025 - June. 2025
[Ultrasound hand gesture classification | Arduino | KAIST GCT600 Course Project]
- **ImaginARyDance: Multi-Limb Dance Motion Guidance in XR using Metaphoric Imagery** Sep. 2024 - Dec. 2024
[Dance Motion Guidance in VR | Unity | KAIST CS584 Course Project]
- **VRMoji:Natural Avatar Movement based on Real-time Facial Expression Recognition system** Mar. 2024 - June. 2024
[HMD Expression Recognition System | Unity, OpenCV | KAIST GCT623 Course Project]
- **Facial Recognition Smart Cap for Convenient Typing System** Mar. 2024 - June. 2024
[Wearable facial Recognition System | Tiny ML | KAIST EE488 Course Project]

HONORS AND AWARDS

- **Academic excellence scholarships, Hongik University** Spring 2019, Fall 2021, Spring/Fall 2022, Spring 2023
- **Full-tuition Government Scholarship for Science and Engineering, KAIST** 2024 - present

ACADEMIC SERVICES

- *Reviewer, CHI 2025*
- *Reviewer, CHI LBW 2023, 24*
- *Reviewer, AHs 2024*

TEACHING

- *Teaching Assistant, GCT623 Interaction Sensing Principle & Application, KAIST* Spring 2025