



Heeyeon Kim

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 <https://hee-yeon-kim.github.io/>

RESEARCH INTEREST

Human-Computer Interaction (HCI), Augmented Reality (AR), Virtual Reality (VR), Multimodal interface

EDUCATION

Pohang University of Science and Technology (POSTECH)

M.S student in IT Engineering

Advisor: Seungmoon Choi

GPA: 4.3/4.3

Sep. 2022-Aug. 2024

Pohang University of Science and Technology (POSTECH)

B.S in IT Engineering

GPA: 3.81/4.3, *Magna cum laude*

Feb. 2018-Aug. 2022

EXPERIENCE

POSTECH Interaction Lab, Pohang, South Korea

Research Associate

Advisor: Seungmoon Choi.

Research on multimodal interfaces in virtual reality, human haptic perception

Sep. 2022-Aug. 2024

POSTECH Interaction Lab, Pohang, South Korea

Research Intern

Advisor: Seungmoon Choi.

Research on the development of real-virtual blended exhibits for embodied learning of scientific principles

Jan. 2022-Feb. 2022

KAIST Lifelike Avatar & Agent Lab, Daejeon, South Korea

Research Intern

Advisor: Sung-Hee Lee.

Research on real-time hand gesture retargeting for remote operators

Aug. 2021-Nov. 2021

Samsung Electronics Mobile Division, Mobile Application Development Team

SW Engineer Intern

Worked on developing an innovative mobile messaging interface

Creathon Project: Location-based AR Social Creation Platform (ARTist)

Jan. 2021

POSTECH Innovative Medical Solution Lab, Pohang, South Korea

Research Intern

Advisor: Sung-Min Park. Research on IoT-based Stress Biofeedback System

Jun. 2020-Jan. 2021

MIT Hacking Arts Hackathon, Boston, United States

Participated in a 24-hour hackathon, developing a program that creates melodies through interactive gameplay

Dec. 2019

Stony Brook University, New York, United States

Short-term study abroad

Sep. 2019-Dec. 2019

PUBLICATIONS

Conference Papers

- [C4] **Heeyeon Kim**, and Seungmoon Choi, "Expressing the Social Intent of Touch Initiator in Virtual Reality Using Multimodal Haptics", In *Proceedings of the IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*, 2024 (Acceptance rate 31%)
- [C3] Junwoo Kim*, **Heeyeon Kim***, Chaeyong Park, and Seungmoon Choi, "Human Recognition Performance of Simple Spatial Vibrotactile Patterns on the Torso," In *Proceedings of the IEEE World Haptics Conference (WHC)*, pp. 20-27, July 9-12, 2023 (* Co-first authors).
- Junwoo Kim, **Heeyeon Kim**, Chaeyong Park, and Seungmoon Choi, "Spatial Masking Effect Based on the Intensity of Vibrotactile Stimuli Using a Haptic Suit," In *Proceedings of HCI Korea*, pp. 348-353, February 1-3, 2023. (Domestic)
- [C1] **Heeyeon Kim**, Sarang Kim, and Seungmoon Choi, "Walk With Me: Augmented Reality Pet to Increase Physical Activity," In *Proceedings of HCI Korea*, pp. 777-780, February 9-11, 2022. (Domestic)

Workshop Presentation, Demos

- [W1] **Heeyeon Kim**, and Seungmoon Choi, "Multimodal Haptic Feedback for effectively expressing the social intent of touch gestures in VR", Applications and Future Directions of Affective Technologies Workshop, International Conference on Robotics and Automation (ICRA), May 13, 2024.
- [D3] **Heeyeon Kim**, Jaehyeok Ahn, Heeji Sohn, Jiwan Lee, and Seungmoon Choi, "Comfort-Inducing Haptic Rendering for Relaxation in Virtual Reality," Creative Award, *HCI Korea*, pp. 1195-1197, 2024. (Domestic)
- [D2] **Heeyeon Kim** and Seungmoon Choi, "VR Pet Therapy with a Multimodal Interface" In *Proceedings of Korea Haptics Conference*, November 22-24, 2023. (Domestic)
- [D1] Jeongwoo Kim, Jungeun Lee, Chaeyong Park, **Heeyeon Kim**, and Seungmoon Choi, "Wearable Haptic Device for Tactile-based Cue Delivery," In *Proceedings of Korea Haptics Conference*, November 22-24, 2023. (Domestic)

GRANTS, AWARDS

Best Poster Presentation Award

2024

Applications and Future Directions of Affective Technologies Workshop, IEEE International Conference on Robotics and Automation (ICRA)

Best Creative Engineering Design Award

2021

Project: "Biofeedback-Enhanced Virtual Reality Exposure Therapy for Public Speaking Anxiety"
POSTECH, School of Creative IT Engineering

Earned Excellence in AR VR Content Idea Contest

2021

Project: "AR-based POSTECH Campus Guide and Management Platform"
POSTECH, Innovation Center for Education

ICT Creative Consilience Program - Scholarship

2018-2020

\$ 20000 over 3 years

Institute of Information & communications Technology Planning & Evaluation (IITP), Korea