

Haejun Kim

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EDUCATION

- **Korea Advanced Institute of Science and Technology (KAIST)** — M.S. student in Data Science. Mar. 2024 – Feb. 2026 (expected). Advisor: Shuping Xiong.
- **Hanyang University** — B.A. in Philosophy; Second Major in Industrial Engineering. Mar. 2018 – Feb. 2024. cum laude

Thesis: VHDT: Vision and Human-Object Interaction Detection Transformer based on ViDT

PUBLICATIONS

([†]Co-first authors; *Corresponding authors.)

Conference & Journal Papers

- [c.1] **Toward a More Standardized Multi-directional Tapping Task in VR: The Effect of Target Depth**
Haejun Kim, Yuhwa Hong, Jihae Yu, Shuping Xiong*, Woojoo Kim*.
ISMAR 2025: IEEE International Symposium on Mixed and Augmented Reality.
- [j.1] **The Effects of Task Factors on the Multi-Directional Tapping Task**
Yuhwa Hong[†], Haejun Kim[†], Jihea Yu, Heedo Shin, Xiaoqun Yu, Shuping Xiong*, Woojoo Kim*.
International Journal of Human-Computer Interaction (IJHCI, In press)
- [j.2] **Effects of a Passive Shoulder Support Exoskeleton and Keyboard Interaction Design on Mid-Air Typing in Mixed Reality**
Haejun Kim, Qiuli Jin, Seonghyeok Park, Woojoo Kim*, Shuping Xiong*.
(IJHCI, In press).

Under Review

- [u.1] **Effects of Adaptive UI Transparency Control on XR Walking and Pedestrian Avoidance**
Haejun Kim, Qiuli Jin, Shuping Xiong*, Woojoo Kim*.
International Journal of Human-Computer Studies.

Posters, Demos, and Workshop Papers

- [p.1] **HickStudyVR: A Hicks Law-Based Information Processing Speed Test in VR for Large Choice Sets**
Junha Choe, Hyeun Cho, Haejun Kim, Woojoo Kim.
ISMAR 2025 (Poster).
- [p.2] **The Effect of Target Depth on Performance of Multi-directional Tapping Task in Virtual Reality**
Haejun Kim, Yuhwa Hong, Jihae Yu, Shuping Xiong, Woojoo Kim.
CHI EA 2025 Extended Abstracts: ACM Conference on Human Factors in Computing Systems (Poster).
- [p.3] **ChaMEleon: Identity-Adjustable Remote Collaboration System in Virtual**

Reality

Hyunyoung Han, **Haejun Kim**, Junseo Lee, Woontack Woo.
HCI Korea 2025 (Poster).

ONGOING RESEARCH PROJECTS

- **Human Factor and AI-Based UX Prediction of Spatial User Interfaces**
Kangwon National University Collaboration | July. 2025 – Present
Predicting UX metrics during XR interactions using AI models with EMG and IMU sensor data; developing multimodal prediction framework.
 - **Adaptive UI for XR: Investigating UX and User Behavior During Walking**
For master thesis | April. 2025 – Present
Real-time UI transparency control algorithm development and user-based study for adaptive spatial interfaces during walking in XR environments
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WORK EXPERIENCE

- **KAIST Human Factors & Ergonomics Lab**, South Korea Jul. 2023 – Sep. 2023
Undergraduate Researcher
Analyzed gait in VR across avatar fidelity levels; supported experiment design, data collection, and analysis.
 - **Republic of Korea Army**, South Korea Apr. 2021 – Jan. 2023
Mandatory Military Service
Completed compulsory national service.
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AWARDS & HONORS

- **Future Research Award** Korean Data Science Society, Sep. 2025
Awarded for outstanding research presented at the Korean Data Science Conference.
 - **Q-Day Special Student Award** KAIST, Nov. 2024
Recognized for contributing to a campus culture of questioning and for outstanding performance in creative education & research through active participation in “QAIST.”
 - **Hanyang Brain (Academic Excellence) Scholarship** Hanyang University
Outstanding academic performance (Fall 2018, Spring 2019, Spring 2020, Fall 2020, Fall 2023).
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LEADERSHIP & SERVICE

- **Executive Member, BOAZ Big Data Analysis Club** Aug 2021–Jul 2022
Organized data analytics & machine learning training sessions; coordinated multi-team student projects; mentored junior members.

SKILLS

- **Languages:** English (fluent), Korean (native)
 - **Software:** Python, Unity, XR development, Minitab.
 - **Instrumentation & Sensors:** OptiTrack motion capture, Xsens inertial motion capture, Delsys surface EMG, Tobii eye-tracking.
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REFERENCES

- **Prof. Shuping Xiong**
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- **Prof. Woojoo Kim**
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