Minwoo Oh

Gwangju, Republic of Korea ohminwoo@gm.gist.ac.kr +82 10-2321-4435

EDUCATION

M.S. and Ph.D. Integrated Program in the **Department of AI** — *Mar 2025 – Present*
Gwangju Institute of Science and Technology — *Gwangju, Korea*

- **Advisor**: Prof. SeungJun Kim

B.S. in **Department of Electrical Engineering and Computer Science** — *Mar 2020 – Feb 2025*
Gwangju Institute of Science and Technology — *Gwangju, Korea*

- **Advisor**: Prof. HyeonHo Jeong & Prof. SeungJun Kim
- **Thesis**: Effect of user perspective designs on XR-based motion guidance systems for real-life motor skills

RESEARCH EXPERIENCE

Research Student — *Mar 2025 – Present*
Human-Centered Intelligent Systems Lab *(HCIS Lab)*, — *Gwangju, Korea*
Gwangju Institute of Science and Technology

- **Advisor**: Prof. SeungJun Kim

Research Intern — *Mar 2024 – Feb 2025*
Human-Centered Intelligent Systems Lab *(HCIS Lab)*, — *Gwangju, Korea*
Gwangju Institute of Science and Technology

- **Advisor**: Prof. SeungJun Kim

PUBLICATIONS

[P.6] MultiSenseGolf: A Multimodal Sensor-Based Dataset for Golf Swing Motion and Shot Performance Analysis

Oh, M., Seong, M., Ko, K., Lim, C., Kim, G., Choi, H., DelPreto, J., Rus, D., and Kim, S.

Scientific Data, 2026 (IF: 7.2) (Accepted)

Dataset GitHub

[P.5] Higher explanation-necessity scores are associated with longer written explanations of autonomous driving scenes

Kim, G., Yeo, D., Kang, Y., **Oh, M.**, and Kim, S.

Scientific Reports, 2026 (IF: 4.9)

Paper

[P.4] Cartoonize the Ride! Segmentation-Gated Video Cartoonization for In-car Modified Reality

Kim, G., Yeo, D., **Oh, M.**, and Kim, S.

ISMAR-Adjunct 2026: IEEE International Symposium on Mixed and Augmented Reality Adjunct

[P.3] AttraCar: Multisensory In-Car VR with Thermal, Airflow, and Motion Feedback through Built-In Vehicle Systems

Yeo, D., Kim, G., **Oh, M.**, Park, J., Gim, B., Kang, S., Elsharkawy, A., Kim, S.

UIST 2025: The ACM Symposium on User Interface Software and Technology

🏆 UIST 2025 Demo Honorable Mention Award
🏆 UIST 2025 People's Choice Best Demo Award
🏆 ISMAR 2025 Best Demonstration Award

Paper

[P.2] LEGOLAS: Learning & Enhancing Golf Skills through LLM-Augmented System

Ko, K., **Oh, M.**, Seong, M., and Kim, S.

CHI LBW 2025: ACM Conference on Human Factors in Computing Systems Late-Breaking Work

Paper

[P.1] Effect of user perspective designs on XR-based motion guidance systems for real-world motor skills

Oh, M., Seong, M., Kim, S.

HCI Korea 2025

Paper

AWARDS AND HONORS

🏆🏆 **Demo Honorable Mention & People's Choice Best Demo in *UIST 2025***

- **Title** Demonstration of AttraCar: Multisensory In Car VR with Thermal Airflow and Motion Feedback through Built In Vehicle Systems

🏆 **Best Demonstration Award in *ISMAR 2025***

- **Title** Demonstration of Multisensory In-Car VR: Repurposing the Vehicle's HVAC System and Power Seat for Immersive Haptic Feedback

🏆 **Best B.S. Thesis Award**

- **Title**: Effect of user perspective designs on XR-based motion guidance systems for real-life motor skills

RESEARCH INTEREST

- Human Computer Interaction
- VR/AR/MR
- Ubiquitous Computing
- SportsXR

SKILLS

Languages: Korean (Native), English (Intermediate, TOEIC: 965/990)

Programming Languages: Python, C#, C, C++, JavaScript

Tools: Unity 3D, Blender, JASP