

Ho Jung Lee

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ABOUT ME

I am currently a graduate student at the Department of Computer Science at Yonsei University in Seoul, South Korea. I received my B.S. degree in Computer Science from Yonsei University, and I am now pursuing my research interests in virtual reality, human-computer interaction, and reinforcement learning. I am passionate about creating immersive virtual reality technology that engages users in new and exciting ways. Outside of research, I enjoy gourmet food, traveling, and yacht sailing.

EDUCATION

M.S. & Ph.D. in Computer Science 2023 - present

- ✓ Yonsei University, Seoul, South Korea
- ✓ Unified graduate course
- ✓ Researcher in Yonsei Computer Graphics and Application (CGnA) lab
- ✓ Research Topic: Virtual Reality, Locomotion, Reinforcement Learning, HCI
- ✓ Advisor: In-Kwon Lee

B.S. in Computer Science 2017 - 2023

- ✓ Yonsei University, Seoul, South Korea

High School Diploma 2014 - 2017

- ✓ Busan Il Science High School, Busan, South Korea

PUBLICATIONS

[J1.] Redirection Strategy Switching: Selective Redirection Controller for Dynamic Environment Adaptation

- ✓ **Ho Jung Lee**, Sang-Bin Jeon, Yong-Hun Cho, and In-Kwon Lee
- ✓ IEEE Transactions on Visualization and Computer Graphics (2024)
- ✓ Presented at IEEE VR 2024 (**Best Paper Award**)

[J2.] MARR : A Multi-Agent Reinforcement Resetter for Redirected Walking

- ✓ **Ho Jung Lee**, Sang-Bin Jeon, Yong-Hun Cho, and In-Kwon Lee
- ✓ IEEE Transactions on Visualization and Computer Graphics (2024)
- ✓ Presented at IEEE ISMAR 2024

[J3.] Multimodal Turn in Place: A Comparative Analysis of Visual and Auditory Reset Uls in Redirected Walking

- ✓ **Ho Jung Lee**, Hyunjeong Kim, and In-Kwon Lee
- ✓ IEEE Transactions on Visualization and Computer Graphics (2025)
- ✓ Will be presented at IEEE VR 2025

[P1.] Predicting Selection Intention in Real-Time with Bayesian-based ML Model in Unimodal Gaze Interaction

- ✓ TaeWoo Jo, **Ho Jung Lee**, Sulim Chun, and In-Kwon Lee
- ✓ arXiv Preprint
- ✓ Under review

[P2.] A Room to Roam: Reset Prediction Based on Physical Object Placement for Redirected Walking

- ✓ Sulim Chun, **Ho Jung Lee**, and In-Kwon Lee
- ✓ arXiv Preprint
- ✓ Under review

AWARDS

- ✓ Yonsei University Merit Academic Paper Award (2024)
- ✓ Korea Metaverse Development Contest 2024 Grand Prize
- ✓ IEEE VR 2024 Best Paper Award
- ✓ Yonsei University Software Capstone Design 2022 Excellence Award
- ✓ KCGS 2022 Best Undergraduate Presentation Award
- ✓ Talent Award of Korea 2016

EXPERIENCE

Yonsei University CGnA lab Researcher	Sep 2023 – Current
Yonsei University CGnA lab Research Intern	Oct 2021 – Aug 2023
Yonsei University Yacht Club President	Oct 2020 – Sep 2021
Korea Coast Guard Duty Officer (Military Service)	Oct 2018 - Jul 2020

SKILLS

Computational

- C, C++, C#, Python, Java
- Unity, Unreal
- Algorithm
- Statistical Analysis
- Reinforcement Learning, Deep Learning, Machine Learning
- Redirected Walking, 3D Gaussian Splatting

Languages

- Korean: Native
- English: Advanced (Free Communication)
- Japanese: Beginner