

# Hail Song

PHD STUDENT · KAIST UVR LAB

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## Education

### Korea Advanced Institute of Science and Technology

PH.D. STUDENT, GRADUATE SCHOOL OF CULTURE TECHNOLOGY

• Advisor: Prof. Woontack Woo

Daejeon, Republic of Korea

Mar 2024 - present

### Korea Advanced Institute of Science and Technology

M.S., GRADUATE SCHOOL OF CULTURE TECHNOLOGY

• Advisor: Prof. Woontack Woo

Daejeon, Republic of Korea

Mar 2022 - Feb 2024

## Experiences

- Aug 2024 - Feb 2025 **Visiting Scholar at Carnegie Mellon University**, Sponsored by Institute of Information & Communications Technology Planning & Evaluation, IITP.
- Mar 2022 - present **Research Assitant**, Development of Untact Realistic OpenXR Platform Technology. National Research Project funded by Korean Government. Joint Research Project with KISTI, KAIST, KICT, and KIOM.
- May 2020 - Feb 2022 **Computer Vision Engineer (Full-time)**, InBody Co., Ltd.

## Publications

### Hail Song (2024)

Toward Realistic 3D Avatar Generation with Dynamic 3D Gaussian Splatting for AR/VR Communication, 2024 IEEE Virtual Reality Workshop (Doctoral Consortium), **VRW 2024, Best DC Paper Awards**

### Hail Song, Boram Yoon, Woojin Cho, Woontack Woo (2023)

RC-SMPL : Real-time Cumulative SMPL-based Avatar Body Generation, 2023 IEEE International Symposium on Mixed and Augmented Reality, **ISMAR 2023**

### Hyungwoo Jin, Eunhee Jung, Hail Song, Woontack Woo (2023)

Quantitative Optimal Learning Conditions for Gaussian Splatting Based On Input Quantity and Scene Dynamics, **KSC 2023**

### Seoyoung Kang, Hail Song, Boram Yoon, Kangsoo Kim, Woontack Woo (2023)

Effects of Different Facial Blendshape Combinations on Social Presence for Avatar-mediated Mixed Reality Remote Communication, 2023 IEEE International Symposium on Mixed and Augmented Reality, **ISMAR-Adjunct 2023**

### Jiyun Park, Hail Song, Seungmin Lee, Juhan Nam, Woontack Woo, (2023)

Real-Time Music Tracking System in Wearable AR Display for Music Performance, 2023 The HCI Society of Korea, **HCI Korea 2023**

## Awards, Fellowships, & Grants

- 2024 **IEEE VR 2024 Best DC Paper Award**, IEEE VR 2024
- 2020 **Department Honors**, Yonsei University
- 2015 **National Science & Technology Scholarship**, KOSAF (Korea Student Aid Foundation) \$ 26,000

## Research Interests

- Virtual Reality, Computer Vision, Computer Graphics, 3D Avatar Generation