

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

• Thesis : Real-time Cumulative SMPL-based Avatar Body Generation System

Daejeon, Republic of Korea

Mar 2022 - Feb 2024

Yonsei University

B.S., MECHANICAL ENGINEERING

Seoul, Republic of Korea

Mar 2015 - Feb 2021

Experiences

- Aug 2024 - **Visiting Scholar at Carnegie Mellon University**, Sponsored by Institute of Information & Communications Technology Planning & Evaluation, IITP.
- Feb 2025
- Jul 2023 - **Visiting Scholar at TUM (Technical University of Munich)**, TUM School of Computation, Information and Technology, CAMP
- Aug 2023
- Mar 2022 - **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.
- present
- May 2020 - **Computer Vision Engineer (Full-time)**, InBody Co., Ltd.
- Feb 2022
- Oct 2016 - **Mandatory Military Service**, ROK Army sergeant, honorable discharge
- Jul 2018

Publications

Hail Song*, Wonsik Shin*, Naeun Lee, Soomin Chung, Nojun Kwak, Woontack Woo (2025)

S3D: Sketch-Driven 3D Model Generation, GMCV Workshop at CVPR'25, **CVPRW 2025**

Seoyoung Kang, **Hail Song**, Boram Yoon, Kangsoo Kim, Woontack Woo (2024)

The Influence of Emotion-based Prioritized Facial Expressions on Social Presence in Avatar-mediated Remote Communication, 2024 IEEE International Symposium on Mixed and Augmented Reality, **ISMAR 2024**

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

Teaching Experience _____

Summer	CTP445 Augmented Reality , Teaching Assistant	<i>Daejeon,</i>
2025		<i>KAIST</i>

Research Interests _____

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