

Hail Song

PHD STUDENT · KAIST UVR LAB

Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea

✉ hail96@kaist.ac.kr | 🏠 hailsong.github.io | 🔗 linkedin.com/in/hailsong

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

S3D: Sketch-Driven 3D Model Generation

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

GMCV Workshop at CVPR'25 (**CVPRW 2025**)

The Influence of Emotion-based Prioritized Facial Expressions on Social Presence in Avatar-mediated Remote Communication

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

2024 IEEE International Symposium on Mixed and Augmented Reality (**ISMAR 2024**)

Toward Realistic 3D Avatar Generation with Dynamic 3D Gaussian Splatting for AR/VR Communication

Hail Song

2024 IEEE Virtual Reality Workshop (Doctoral Consortium) (**VRW 2024**)

Best DC Paper Awards

Meta-Rodin: a Multi-Sensory Immersive Sculpting System to Cultivate a Memorable Experience in a Meta-Museum

Sihyun Jeong, Coulon Jina Jung, **Hail Song**, Woontack Woo

Korea Computer Congress 2024 (**KCC 2024**)

Outstanding Presented Paper Award

RC-SMPL : Real-time Cumulative SMPL-based Avatar Body Generation

Hail Song, Boram Yoon, Woojin Cho, Woontack Woo

2023 IEEE International Symposium on Mixed and Augmented Reality (**ISMAR 2023**)

Quantitative Optimal Learning Conditions for Gaussian Splatting Based On Input Quantity and Scene Dynamics

Hyungwoo Jin, Eunhee Jung, **Hail Song**, Woontack Woo
Korea Software Congress 2023 (**KSC 2023**)

Effects of Different Facial Blendshape Combinations on Social Presence for Avatar-mediated Mixed Reality Remote Communication

Seoyoung Kang, **Hail Song**, Boram Yoon, Kangsoo Kim, Woontack Woo
2023 IEEE International Symposium on Mixed and Augmented Reality (**ISMAR-Adjunct 2023**)

Real-Time Music Tracking System in Wearable AR Display for Music Performance

Jiyun Park, **Hail Song**, Seungmin Lee, Juhan Nam, Woontack Woo
2023 The HCI Society of Korea (**HCI Korea 2023**)

Awards, Fellowships, & Grants_____

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

Teaching Experience_____

Summer 2025	CTP445 Augmented Reality , Teaching Assistant	KAIST, Daejeon
Summer 2019	Teaching Assistant (Coding) , Samsung Dream Class, supported by Samsung Co., Ltd.,	Incheon

Academic Activities_____

INVITED TALKS
2023 Korea Software Congress (KSC), Top-Conference Session

REVIEWER
IEEE ISMAR 2024, 2025
Korea Computer Congress (KCC) 2024, 2025

Research Interests_____

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