

Jiye Lee

Ph.D. Student
Department of Computer Science and Engineering
Seoul National University

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EDUCATION

Seoul National University *Sep 2021 – Current*
M.S./Ph.D. in Computer Science and Engineering
Advisor: Prof. [Hanbyul Joo](#)

Seoul National University *Mar 2017 – Aug 2021*
College of Liberal Studies
B.S. in Computer Science and Engineering & B.S. in Chemistry, *Cum Laude*

RESEARCH INTEREST

I focus on building systems that can control virtual avatars to demonstrate human-like movements from various levels of world perceptions. This involves interpreting human motions from visual or wearable sensors (sensory perception) and synthesizing realistic and diverse human-scene interactions (virtual perception of the environment). My research spans across computer vision, graphics, and machine learning to achieve these objectives.

PUBLICATIONS

[Mocap Everyone Everywhere: Lightweight Motion Capture With Smartwatches and a Head-Mounted Camera](#)
Jiye Lee, Hanbyul Joo
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024.

[Locomotion-Action-Manipulation: Synthesizing Human-Scene Interactions in Complex 3D Environments](#)
Jiye Lee, Hanbyul Joo
International Conference on Computer Vision (**ICCV**), 2023.

[Learning Virtual Chimeras by Dynamic Motion Reassembly](#)
Seyoung Lee, **Jiye Lee**, Jehee Lee
ACM Transactions on Graphics 41(6), 182. (**SIGGRAPH Asia** 2022)

EXPERIENCES

SNU Movement Research Lab, South Korea *Jul 2020 – May 2022*
Undergraduate Research Intern (until Aug 2021) & Research Assistant
Advisor: Prof. Jehee Lee
Project: *Physics-Based Character Control via Reinforcement Learning*

SNU NMR Methods Group, South Korea *Dec 2018 – Jun 2020*
Undergraduate Research Intern
Advisor: Prof. Jung Ho Lee (Dept. of Chemistry)
Project: *IDP Dynamics Analysis via Multidimensional NMR*

ACADEMIC SERVICES

Conference Reviewer
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024
SIGGRAPH Asia, 2024
British Machine Vision Conference (BMVC), 2024
International Conference on 3D Vision (3DV), 2025

Student Volunteer

Women In Computer Vision Workshop, ICCV 2023

AWARDS & HONORS

- Valedictorian (Dean's Award)** 2021
College of Liberal Studies, Seoul National University
- Outstanding Research in SNU Undergraduate Research Program, 3rd Place (President's Award)** 2020
Seoul National University
- Outstanding Undergraduate Research, 2nd Place** 2019
Department of Chemistry, Seoul National University

TALKS

- Locomotion-Action-Manipulation: Synthesizing Human-Scene Interactions in Complex 3D Environments**
NCSOFT, South Korea (hosted by Prof. Jehee Lee) Dec 2023

TEACHING

- Teaching Assistant**, Seoul National University *Spring 2023-2024, Fall 2022-2023*
Theories and Lab of VR/AR (M2177.007800)
Head TA during Fall 2023
- Teaching Assistant**, Seoul National University *Fall 2022*
Artificial Intelligence (4190.408) (Instructor: Prof. Hanbyul Joo)
- Undergraduate Teaching Assistant**, Seoul National University *Spring 2021*
Data Structure (M1522.000900) (Instructor: Prof. Byung Ro Moon)

SKILLS

Language: Korean (native), English (full proficiency), Mandarin Chinese (intermediate), Japanese (conversational)

Programming Language: Python, C/C++, JAVA, JavaScript

Framework: PyTorch, NumPy, OpenGL

Adobe: Photoshop, Illustrator, Premiere Pro

3D: Autodesk 3Ds MotionBuilder, Blender