Jiye Lee

Ph.D. Candidate
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. Jungdam Won

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

PUBLICATIONS

Audio Driven Real-Time Facial Animation for Social Telepresence
Jiye Lee, Chenghui Li, Linh Tran, Shin-En Wei, Jason Saragih, Alexander Richard, Hanbyul Joo, Shaojie Bai
SIGGRAPH Asia Conference Proceedings, 2025.

Learning to Transfer Human Hand Skills for Robot Manipulations
Sungjae Park*, Seungho Lee*, Mingi Choi*, **Jiye Lee**, Jeonghwan Kim, Jisoo Kim, Hanbyul Joo
CoRL X-Embodiment Workshop, 2024.

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

Meta Reality Labs Research (Codec Avatars Lab), Pittsburgh, USA
Research Scientist Intern *Jun 2024 – Dec 2024*
Team: Shaojie Bai (Manager), Leo Li, Alexander Richard, Shih-En Wei, Jason Saragih
Project: *Audio Driven Real-time Facial Animation of Photorealistic Facial Avatars*

SNU Visual Computing Lab, South Korea
Graduate Researcher *May 2022 – Mar 2025*
Advisor: Prof. Hanbyul Joo
Project: *Wearable Motion Capture with Visual-IMU Sensor Inputs*
Human-scene Interaction Motion Synthesis

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

ACADEMIC SERVICES

Workshop Organizer
Global 3D Human Poses (G3P) Workshop, in conjunction with CVPR 2025
Co-organized with ETH Zurich, HKUST, CMU, and NVIDIA

Conference Reviewer
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2024, 2025
IEEE/CVF International Conference on Computer Vision (ICCV) 2025
Conference on Neural Information Processing Systems (NeurIPS) 2025
IEEE International Conference on Robotics and Automation (ICRA) 2025
International Conference on 3D Vision (3DV) 2025, 2026
British Machine Vision Conference (BMVC) 2024, 2025
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) 2026

Journal Reviewer
IEEE Transactions on Visualization and Computer Graphics (TVCG) 2025
SIGGRAPH Asia 2024, 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*

PATENTS

Full body human motion capture system with smartwatches (Patent No. 1020230195272)
Jiye Lee, Hanbyul Joo

TEACHING

Teaching Assistant (Primary), Seoul National University *Fall 2025*
Reinforcement Learning (M1522.007400) (Instructor: Prof. Jungdam Won)

Teaching Assistant (Primary), Seoul National University *Spring 2025*
3D Computer Vision (M1522.007100) (Instructor: Prof. Hanbyul Joo)

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, TOEFL 115/120), Mandarin Chinese (intermediate)

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

Framework: PyTorch, NumPy, OpenGL

Adobe: Photoshop, Illustrator, Premiere Pro

3D: Autodesk 3Ds MotionBuilder, Blender