

Seongmin Jung

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RESEARCH INTEREST

Multimodal Robot Learning, Vision-Language(-Action) Models, 3D Computer Vision, Embodied AI

EDUCATION

Seoul National University <i>M.S. in Artificial Intelligence (Advisor: Prof. Jongwoo Lim)</i> GPA: 4.24/4.30	Sep 2024 – Aug 2026 (Expected) Seoul, South Korea
Yonsei University <i>B.S. in Electrical and Electronic Engineering</i> GPA: 4.02/4.30 • Graduated with High Honors (Top 3% in college)	Mar 2019 – Feb 2024 Seoul, South Korea
Case Western Reserve University <i>Exchange Program</i>	Aug 2022 – May 2023 Cleveland, OH, USA

HONORS AND AWARDS

The National Scholarship for Science and Engineering Korea Student Aid Foundation(KOSAF) • Full merit-based scholarship awarded to top STEM students by the South Korean government, covering full tuition.	2019 – 2024 Seoul, South Korea
High Honors Dept. of Electrical & Electronic Engineering, Yonsei University	Fall 2019 Seoul, South Korea
Highest Honors Dept. of Electrical & Electronic Engineering, Yonsei University	Spring 2019 Seoul, South Korea

PREPRINTS & MANUSCRIPTS

- [1] **Seongmin Jung***, Seongho Choi*, Gunwoo Jeon, Minsu Cho, and Jongwoo Lim. PanoGrounder: Bridging 2D and 3D with Panoramic Scene Representations for VLM-based 3D Visual Grounding. *CVPR 2026, under review.*
Project Page: <https://choiseongho-h.github.io/PanoGrounder>

RESEARCH EXPERIENCES

AI4CE Lab, New York University Internship (Remote, Advisor: Prof. Chen Feng) <i>Tactile-Informed Imitation Learning</i> • Developing visual-tactile imitation learning policies that combine low-frequency visual inputs with high-rate tactile feedback for contact-rich manipulation.	Nov 2025 – Present New York City, NY, USA
Biological Cybernetics Lab, Yonsei University Undergraduate Thesis (Advisor: Prof. DaeEun Kim) <i>Autonomous Navigation for High-Speed Ground Robot</i> • Implemented low-latency obstacle avoidance and path planning using ROS and LiDAR odometry. • Deployed on a Raspberry-Pi-powered RC car achieving high-speed navigation at 5 m/s.	Jul 2023 – Dec 2023 Seoul, South Korea

SELECTED COURSE PROJECTS

Solving Rubik's Cube with Bimanual Robot Hands AI Robotics: Robot Foundation Model (M2794.009600) • Collected VR teleoperation data on a Fourier GR-1 bimanual humanoid robot in Isaac Lab using a Meta Quest 3. • Fine-tuned an open-source VLA (GR00T N1.5) for stable grasping and rotation of Rubik's Cube faces.	Fall 2025
Neural SLAM with Point Cloud Projection for Faster RGB-D Tracking Deep Learning (M2177.003100, Instructor: Prof. Jonghyun Choi) • Proposed a differentiable point cloud projection-based camera pose tracker, replacing NeRF queries along camera rays. • Implemented the method on an existing neural SLAM system, achieving over 3× faster tracking while preserving trajectory accuracy.	Fall 2024

PROFESSIONAL EXPERIENCE

Mobiltech Research Assistant <i>Enhancing Pose Tracking in Urban Scenes</i> • Developed a LiDAR odometry pipeline using per-frame height maps of surrounding structures, improving pose-tracking accuracy and robustness in dense urban scenes.	Aug 2023 – Jun 2024 Seoul, South Korea
<i>Isaac Sim Environment for Heterogeneous Multi-Robot Systems</i> • Implemented a heterogeneous multi-robot simulation with ground and aerial platforms in NVIDIA Isaac Sim, integrating per-robot control and sensor setups in ROS.	

TEACHING EXPERIENCES

Digital Computer Concept and Practice (F37.202), Seoul National University

Teaching Assistant

Spring 2025

Seoul, South Korea

- Led weekly C++ programming lab sessions and developed course materials and assignments.

PATENTS

[1] Y. Lee, **S. Jung**, J. Jo, and Y. Kim. 2023. Apparatus for collecting cigarette butts with IoT. Korea Patent 10-2023-0166309, filed November 27, 2023.

[2] Y. Lee, **S. Jung**, J. Jo, and Y. Kim. 2023. Method for managing of device for collecting cigarette butts with IoT using AI. Korea Patent 10-2023-0166310, filed November 27, 2023.

CLUB ACTIVITIES

CWRUbotix, Robotics Club at Case Western Reserve University

MATE ROV World Championship 2023

Dec 2022 – Jun 2023

Cleveland, Ohio

- Constructed underwater robot simulation for mission environment using ROS and Gazebo Simulation.
- Designed and implemented an Arduino-based wireless communication module for mission execution.

VERY, Entrepreneurship Club at Yonsei University

Team Lead

Mar 2021 – Feb 2022

Seoul, South Korea

- Established online music ensemble platform based on self-recording for college bands.
- Led a 4-member team, coordinating operations, design, and development throughout the project.

LEADERSHIP

Korean Mentor

Office of International Affairs, Yonsei University

Sep 2023 – Aug 2024

Seoul, South Korea

- Mentored 10 incoming study-abroad students, aiding in cultural and academic adaptation in Korea.

President of Student Council

Dept. of Electrical & Electrical Engineering, Yonsei University

Nov 2020 – Oct 2021

Seoul, South Korea

- Led key events including freshmen orientation and homecoming, organizing 300+ students.

TECHNICAL SKILLS

Programming languages: Python, C/C++, MATLAB

Robotics: Isaac Sim, Isaac Lab, ROS 1 & 2

Languages: Korean (native), English (fluent)

- TOEFL iBT: 108 (Reading: 30, Listening: 29, Speaking: 24, Writing: 25)