

Junho Lee

Project Assistant, TU Wien

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RESEARCH INTERESTS

Robotic manipulation and grasping; active and interactive perception; 3D scene representation and reconstruction; uncertainty modelling in learned perception; transparent and specular object perception; robot learning from demonstration.

RESEARCH EXPERIENCE

TU Wien — Vienna, Austria

01.09.2026 – present

Project Assistant

Seoul National University — Seoul, Republic of Korea

01.09.2025 – 31.08.2026

Postdoctoral Researcher

EDUCATION

Seoul National University — Seoul, Republic of Korea

01.09.2020 – 31.08.2025

Ph.D., Electrical and Computer Engineering

Advisor: Prof. Young Min Kim

Thesis: *Toward Reliable Vision-Based Robotic Grasping in Transparency and Clutter*

Seoul National University — Seoul, Republic of Korea

01.03.2017 – 31.08.2020

B.S., Electrical and Computer Engineering

Thesis: *Using Demonstrations from VR-Integrated Robot Control Systems to Alleviate the Sparse Reward Setting for Reinforcement Learning*

PUBLICATIONS

NFL: Normal Field Learning for 6-DoF Grasping of Transparent Objects

Junho Lee, Sangmin Kim, Yonghyeon Lee, Young Min Kim

IEEE Robotics and Automation Letters (RA-L), 2024

MasKGrasp: Mask-Based Grasping for Scenes with Multiple General Real-World Objects

Junho Lee, Junhwa Hur, Inwoo Hwang, Young Min Kim

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2022

INGRID: Interactive Geometry and Instance Identification for Occluded Scenes

Junho Lee, Sangmin Kim, Yonghyeon Lee, Young Min Kim

Robotics: Science and Systems (RSS), Workshop, 2026

AnyCamVLA: Zero-Shot Camera Adaptation for Viewpoint-Robust Vision–Language–Action Models

Hyeongjun Heo, Seungyeon Woo, Sang Min Kim, Junho Kim, **Junho Lee**, Yonghyeon Lee, Young Min Kim

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2026

GATSBI: Generative Agent-Centric Spatio-Temporal Object Interaction

Cheol-Hui Min, Jinseok Bae, **Junho Lee**, Young Min Kim

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021 (Oral presentation)

PATENTS

Environment-Aware Color Measurement Method, Apparatus, and Computer-Readable Medium *2023*

Registration no. 10-2596914. Perceptually uniform colour palette design based on the CIEDE2000 colour difference metric.

RESEARCH PROJECTS

Real-Time Normal Gaussian Splats

Normal-encoding Gaussian splats, tracked through SE(3) motion with projection-based gradients.

Teleoperated Demonstration Accumulation for Diffusion Policies

Lightweight WebXR teleoperation pipeline for demonstration collection on the Agile-X Piper robot.

TEACHING EXPERIENCE

Teaching Assistant — Linear Algebra for Electrical Systems

Fall 2022

Seoul National University. Instructor: Prof. Young Min Kim.

Teaching Assistant — Linear Algebra for Electrical Systems

Fall 2021

Seoul National University. Instructor: Prof. Young Min Kim.

ACADEMIC SERVICE

Reviewer

RA-L; ICRA; IROS; Pacific Graphics (PG); CAD/Graphics (CAG).

EVENT ORGANISATION

SNU Workshop on Perception and Intelligence

01.10.2025

Seoul National University. Responsible for venue, budget, catering, logistics and poster design.
3d.snu.ac.kr/workshop/workshop251001

AWARDS AND HONOURS

Tutor Award, College of Engineering, Seoul National University

2021

TECHNICAL SKILLS

Programming languages Python, C++, MATLAB, L^AT_EX.

Libraries and frameworks PyTorch, NumPy, NVIDIA Isaac Sim, Blender, CVXPY.

Platforms Linux, macOS, Windows.

Robotic and sensing hardware Franka Emika Panda, Agile-X Piper, HTC Vive, Intel RealSense.

Infrastructure System administrator of a GPU compute server comprising 78 GPUs.

LANGUAGES

Korean (native); English (native); Japanese (beginner).

References available upon request.