JINMO KIM

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EDUCATION

M.S./Ph.D. Integrated Student in Artificial Intelligence, SNU — Sep 2023 - Present
- Visual & Geometric Intelligence Lab., advised by Prof. Jaesik Park.

M.S. Student in Computer Science and Engineering, POSTECH — Feb 2023 - Aug 2023
- Computer Vision Lab., advised by Prof. Jaesik Park.

B.S. in Computer Science and Engineering, POSTECH — Feb 2019 - Feb 2023
- GPA: 3.83 / 4.3 (***Cum Laude***)

Sejong Science High School — Mar 2016 - Feb 2019

RESEARCH INTERESTS

3D Vision	Feed-forward Image-to-3D, 3D Scene Understanding, Robot Vision for Clutter Scenes
Computer Graphics	Neural Graphics (Novel View Synthesis, Surface Reconstruction)

PUBLICATIONS

International Conferences

[1] Seungwoo Yoon, **Jinmo Kim**, and Jaesik Park.
Extend3D: Town-scale 3D Generation
Conference on Computer Vision and Pattern Recognition (CVPR), Jun. 2026

Domestic Conferences

[1] Seungwoo Yoon, **Jinmo Kim**, and Jaesik Park.
Training-free Large-scale 3D Scene Generation via Extended Latent Space
38th Workshop on Image Processing and Image Understanding (IPIU), Feb. 2026

[2] **Jinmo Kim** and Jaesik Park.
Occlusion Aware Object Reconstruction from Sparse Views
Korea Computer Congress (KCC), Jul. 2025

[3] **Jinmo Kim**, Namtae Kim, Hyunjoon Lee, and Jaesik Park.
Masked Multi-view Transformer for Occluded Object Reconstruction
37th Workshop on Image Processing and Image Understanding (IPIU), Feb. 2025

[4] Kwonyoung Ryu, **Jinmo Kim**, and Jaesik Park.
Open-Vocabulary 3D Semantic Segmentation Leveraging Multi-view Images and LiDAR Points
36th Workshop on Image Processing and Image Understanding (IPIU), Feb. 2024

[5] **Jinmo Kim**, Kwonyoung Ryu, and Jaesik Park.
Domain Adaptation for 3D LiDAR Object Detection
35th Workshop on Image Processing and Image Understanding (IPIU), Feb. 2023

EXPERIENCES

Research Participation in POSTECH CV Lab. Undergraduate Research Participant — Sep 2021 - Feb 2023

- Research of multi-dataset learning in 3D semantic segmentation.
- 3D object detection in an embedded system (solid-state LiDAR with Jetson Orin).
- Developed cylindrical LiDAR and omnidirectional camera hardware system.
- Calibration between LiDAR and omnidirectional camera.
- Investigate neural rendering methods for the camera-LiDAR system.

Undergraduate Group Research Program (UGRP) Developer

- 2022 UGRP: Leader and Developer for building a 3D POSTECH indoor map with NeRF (Calibration, NeRF)
- 2021 UGRP: Developer of delivery robot with legged-wheel structure (2D LiDAR SLAM)
- 2020 UGRP: Leader and Developer for event detection and handwritten text recognition in lecture video
- 2019 UGRP: Developer of PONIX AI speaker (STT/TTS/Python backend API)

POWER-ON (Robotics Club in POSTECH) Leader Club Homepage

- Robotics student club for undergraduates in POSTECH.
- Participate as a member. Feb 2019 - Aug 2021, Aug 2022 - Aug 2023
- Participate as a club leader Aug 2021 - Aug 2022

LaCar (Team of Korean I-Corps Program) EM(Member) Jun 2020 - Feb 2021

- 2020 Korean I-Corps Program.
- Conducted a customer discovery on a solid-state LiDAR calibration system and designed a business model.

SCHOLARSHIPS & AWARDS

GLP (Global Leadership Program) Merit-based Scholarship, KRW 3,000,000 (USD ∼2,600)

- Received at Sep 2020, Mar 2021, Sep 2021, Mar 2022. (KRW 12,000,000)

Top Award 2021 UGRP (Undergraduate Group Research Program) Feb 2022

- Topic: Development of Self-driving Delivery Robot with Legged-Wheel Structure

Top Award 2019 UGRP (Undergraduate Group Research Program) Feb 2020

- Topic: Development of PONIX AI Speaker

FUNDINGS

Fast 3D Shape Reconstruction of Multiple Objects from Single/Few Images for Robotic Environments Jul 2024 - Jun 2025

- Master's Student Research Fellowship Program, Ministry of Education, Republic of Korea.

SKILLS

Programming Languages	C/C++, Python
Libraries / Tools	PyTorch, TensorFlow, Open3D, OpenCV, Git(GitHub, GitLab), Docker
Exposure to	PCL, OpenGL, GLSL, Verilog, MATLAB, Kotlin

TEACHING EXPERIENCES

Mueunjae Student Mentoring Program

- Mentoring program for POSTECH undergraduate students.
- Participate as a mentor of **CSED101 Programming & Problem Solving** course.
- Participated in spring and fall semesters of 2022. Mar 2022 - Jun 2022, Sep 2022 - Dec 2022
- Participated in spring and fall semesters of 2021. Mar 2021 - Jun 2021, Sep 2021 - Dec 2021

CSE Student Mentoring Program

- Mentoring program for POSTECH CSE undergraduate students.
- Participate as a mentor of **CSED261 Discrete Math. for Computer Science** course.
- Participated in the spring semesters of 2021 and 2022. Mar 2021 - Jun 2021, Mar 2022 - Jun 2022

POSTECHx CREATOR Lecturer, Course Video Editor May 2020 - Feb 2021

- Making an online lecture on basic Arduino development for POSTECH undergraduate students.
- Covers basic concepts of Arduino programming, and complex applications such as PWM, UART, I2C, etc.

Soc, Soc (Story Of Creativity, Story Of Camp) Camp Mentor Jan 2020

- Educational volunteer program.
- Teaching middle school students who cannot easily encounter science programs.
- Taught basic electronic circuits and made a creative circuit town by using copper tapes.