

# JINMO KIM

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## EDUCATION

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<b>M.S./Ph.D. Integrated Student in Artificial Intelligence</b> , SNU - Visual & Geometric Intelligence Lab., advised by Prof. Jaesik Park.	Sep 2023 - Present
<b>M.S. Student in Computer Science and Engineering</b> , POSTECH - Computer Vision Lab., advised by Prof. Jaesik Park.	Feb 2023 - Aug 2023
<b>B.S. in Computer Science and Engineering</b> , POSTECH - GPA: 3.83 / 4.3 ( <i>Cum Laude</i> )	Feb 2019 - Feb 2023
<b>Sejong Science High School</b>	Mar 2016 - Feb 2019

## RESEARCH INTERESTS

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<b>3D Vision</b>	Feed-forward Image-to-3D, 3D Scene Understanding, Robot Vision
<b>Computer Graphics</b>	Neural Graphics (Novel View Synthesis, Surface Reconstruction)

## PUBLICATIONS

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### Domestic

- [1] **Jinmo Kim**, Namtae Kim, Hyunjoon Lee, and Jaesik Park  
가려진 형상의 복원을 위한 **Masked Multi-view Transformer**  
제 37회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2025
- [2] Kwonyoung Ryu, **Jinmo Kim**, and Jaesik Park  
다시점 이미지와 회전형 라이다를 활용한 열린 어휘집합의 CLIP 특징점 생성과 3차원 의미론적 물체분할  
제 36회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2024
- [3] **Jinmo Kim**, Kwonyoung Ryu, and Jaesik Park  
고정형 라이다 환경에서의 3차원 객체 인식 도메인 적응 기술 개발  
제 35회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2023

## EXPERIENCES

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**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 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 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 solid-state LiDAR calibration system and designed a business model.

## SCHOLARSHIPS & AWARDS

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**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

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로봇 환경을 위한 단일 및 소수의 이미지 기반 다수 물체의 고속 3차원 복원

Jul 2024 - Jun 2025

- 석사과정생연구장려금지원사업, Ministry of Education, Republic of Korea.

## SKILLS

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**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

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**Mueunjae Student Mentoring Program**

- Mentoring program for POSTECH undergraduate students.
- Participate as a mentor of **CS101 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 **CS261 Discrete Math. for Computer Science** course.
- Participated in 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 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.

## EXTRACURRICULAR ACTIVITIES

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**StarLovers (Amateur Astronomy Club in POSTECH)** Member

Sep 2019 - Aug 2023

**Clear (Badminton Club in POSTECH)** Member

Mar 2019 - Aug 2023