

# 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>	3D LiDAR Perception, Robot Vision
<b>Computer Graphics</b>	Neural Graphics(Novel View Synthesis, Surface Reconstruction)

## PUBLICATIONS

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### Domestic

- [1] **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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<b>Research Participation in POSTECH CV Lab</b> Undergraduate Research Participant	Sep 2021 - Feb 2023
<ul style="list-style-type: none"><li>• Research of multi-dataset learning in 3D semantic segmentation.</li><li>• 3D object detection in embedded system(solid-state LiDAR with Jetson Orin).</li><li>• Developed cylindrical LiDAR and omnidirectional camera hardware system.</li><li>• Calibration between LiDAR and omnidirectional camera.</li><li>• Investigate neural rendering methods for the camera-LiDAR system.</li></ul>	
<b>Development of 3D POSTECH Indoor Map Dataset with NeRF</b> Developer	Apr 2022 - Jan 2023
<ul style="list-style-type: none"><li>• 2022 Undergraduate Group Research Program(UGRP).</li><li>• Participate as a developer of calibration algorithm and NeRF.</li></ul>	
<b>Development of Delivery Robot with Legged-Wheel Structure</b> SLAM Developer	May 2021 - Jan 2022
<ul style="list-style-type: none"><li>• 2021 Undergraduate Group Research Program(UGRP).</li><li>• Implemented 2D LiDAR integration in the robot.</li><li>• Developed SLAM algorithms for the robot.</li></ul>	
<b>POWER-ON (Robotics Club in POSTECH)</b> Leader	<a href="#">Club Homepage</a>
<ul style="list-style-type: none"><li>• Robotics student club for undergraduates in POSTECH.</li><li>• Participate as a member until the summer of 2021.</li><li>• Participate as a club leader until the summer of 2022.</li></ul>	
<b>LaCar (Team of Korean I-Corps Program)</b> EM(Member)	Jun 2020 - Feb 2021
<ul style="list-style-type: none"><li>• 2020 Korean I-Corps Program.</li><li>• Conducted a customer discovery on solid-state LiDAR calibration system and designed a business model.</li></ul>	

<b>Event Detection and Handwritten Text Recognition in Lecture Video</b> Leader	May 2020 - Jan 2021
<ul style="list-style-type: none"> <li>• 2020 Undergraduate Group Research Program(UGRP).</li> <li>• Leader of the project.</li> <li>• Implemented video event detection and handwritten text recognition.</li> </ul>	
<b>PONIX AI Speaker (AI Speaker for POSTECH Students)</b> Developer	May 2019 - Jan 2020
<ul style="list-style-type: none"> <li>• 2019 Undergraduate Group Research Program(UGRP).</li> <li>• Implemented STT, TTS, and backend API by Python.</li> </ul>	
<b>C_oala (Dashboard for Research Papers' Topic Analysis)</b> Leader of Algorithm Team	Jul 2019 - Dec 2019
<ul style="list-style-type: none"> <li>• Developed TF-IDF &amp; word frequency algorithm for research papers by Python.</li> <li>• Implemented LDA algorithm for research papers by Python.</li> </ul>	

## SCHOLARSHIPS & AWARDS

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<b>Participation Award 2022 UGRP</b> (Undergraduate Group Research Program)	Feb 2023
<ul style="list-style-type: none"> <li>• Topic: Development of 3D POSTECH Indoor Map Dataset with NeRF</li> </ul>	
<b>GLP(Global Leadership Program)</b> Merit-based Scholarship, ₩3,000,000(\$2,600)	Mar 2022
<b>Top Award 2021 UGRP</b> (Undergraduate Group Research Program)	Feb 2022
<ul style="list-style-type: none"> <li>• Topic: Development of Self-driving Delivery Robot with Legged-Wheel Structure</li> </ul>	
<b>GLP(Global Leadership Program)</b> Merit-based Scholarship, ₩3,000,000(\$2,600)	Sep 2021
<b>GLP(Global Leadership Program)</b> Merit-based Scholarship, ₩3,000,000(\$2,600)	Mar 2021
<b>GLP(Global Leadership Program)</b> Merit-based Scholarship, ₩3,000,000(\$2,600)	Sep 2020
<b>Top Award 2019 UGRP</b> (Undergraduate Group Research Program)	Feb 2020
<ul style="list-style-type: none"> <li>• Topic: Development of PONIX AI Speaker</li> </ul>	

## SKILLS

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

## TEACHING EXPERIENCES

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<b>2022-2 Student Mentoring Program</b>	Sep 2022 - Dec 2022
<ul style="list-style-type: none"> <li>• Mentoring program for POSTECH undergraduate students.</li> <li>• Participate as mentor of <b>CSED101 Programming &amp; Problem Solving</b> course.</li> </ul>	
<b>2022-1 CSE Student Mentoring Program</b>	Mar 2022 - Jun 2022
<ul style="list-style-type: none"> <li>• Mentoring program for POSTECH CSE undergraduate students.</li> <li>• Participate as mentor of <b>CSED261 Discrete Math. for Computer Science</b> course.</li> </ul>	
<b>2022-1 Student Mentoring Program</b>	Mar 2022 - Jun 2022
<ul style="list-style-type: none"> <li>• Mentoring program for POSTECH undergraduate students.</li> <li>• Participate as mentor of <b>CSED101 Programming &amp; Problem Solving</b> course.</li> </ul>	
<b>2021-2 Student Mentoring Program</b>	Sep 2021 - Dec 2021
<ul style="list-style-type: none"> <li>• Mentoring program for POSTECH undergraduate students.</li> </ul>	

- Participate as mentor of **CSED101 Programming & Problem Solving** course.

**2021-1 CSE Student Mentoring Program**

Mar 2021 - Jun 2021

- Mentoring program for POSTECH CSE undergraduate students.
- Participate as mentor of **CSED261 Discrete Math. for Computer Science** course.

**2021-1 Student Mentoring Program**

Mar 2021 - Jun 2021

- Mentoring program for POSTECH undergraduate students.
- Participate as mentor of **CSED101 Programming & Problem Solving** course.

**POSTECH x CREATOR** Teacher, Course Video Editor

May 2020 - Feb 2022

- 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**

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 - Present

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

Mar 2019 - Present