

Junsung Park

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Education

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| KAIST, Ph.D. Candidate in Artificial Intelligence, Advised by Prof. Hyunjung Shim | 2023 – Now |
| Korea University, BS in Mechanical Engineering & Artificial Intelligence | 2017 – 2023 |

Publications

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| Robust Driving QA through Metadata-Grounded Context and Task-Specific Prompts. | IROS 2025 RoboSense Challenge |
| Seungjun Yu*, Junsung Park* , Youngsun Lim, Hyunjung Shim | |
| Style and Intensity: Bridging the Synthetic-to-Real Gap in LiDAR Semantic Segmentation. | Under Review |
| Junsung Park , Hyunjung Shim | |
| 3D-Aware Vision-Language Models Fine-Tuning with Geometric Distillation. | EMNLP Findings, 2025 |
| Seonho Lee*, Jiho Choi*, Inha Kang, Jiwook Kim, Junsung Park , Hyunjung Shim | |
| No Thing, Nothing: Highlighting Safety-Critical Classes for Robust LiDAR Semantic Segmentation. [Arxiv] [Github] | CVPR, 2025 |
| Junsung Park , Hwiyeong Lee, Inha Kang, Hyunjung Shim | |
| Rethinking Data Augmentation for Robust LiDAR Semantic Segmentation in Adverse Weather. [Arxiv] [Github] | ECCV, Oral , 2024 |
| Junsung Park , Kyungmin Kim, Hyunjung Shim | |
| Precision Matters: Precision-aware Ensemble for Weakly Supervised Semantic Segmentation. [Arxiv] [Github] | AAAI Workshop, 2024 |
| Junsung Park , Hyunjung Shim | |

Patents

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| Barbell with Built-in Weight Fixing Device. | 2021 |
| • Korea Patent Number: 10-2021-0092158 | |

Projects

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| IROS 2025 RoboSense Challenge Track #1: Driving with Language. | 2025 |
| • Developed a prompting method to enable the VLM model to better understand driving scenes. Achieved a final 5th-place record. | |
| Open Manipulator Grasping Task : Vision for Robot Arm Control. [Github] | 2022 |
| • Undergraduate Project. Developed vision modules for robot arm grasping task. Estimate 3D grasping position by FCN segmentation models and pinhole camera model. | |
| Mobile Robot Project. [Github] | 2021 |
| • Undergraduate Project. ROS1 programming and embedded motor control on OpenCM board. | |
| Capstone Design Projects for ‘Stair Treads Wheels’. | 2018 |
| • Undergraduate Project. Designed wheels for going upstairs. Developed wheel rotation control. Bronze prize. | |

Awards and Honors

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| Scholarship from Lee Myungbak & Kim Yoonok Foundation. | 2022-2023 |
| Scholarship from Korea University Alumni Association. | 2021-2023 |
| Bronze Prize & Social Contribution Prize | 2018 |
| • from Korea Univ. Innovation Center for Engineering, Capstone Design Project. | |