

Yohan Park

✉ john.a.park@kaist.ac.kr 🏠 yohanpark.me

INTERESTS	3D Scene Understanding, Vision-Language Planning, Reinforcement Learning, Multi-Agent Systems	
EDUCATION	Korea Advanced Institute of Science and Technology (KAIST) M.S. Student Advanced Machine Intelligence (AMI) Lab, advised by Prof. Tae-Hyun Oh	Daejeon, Republic of Korea Mar 2026–
	Korea Advanced Institute of Science and Technology (KAIST) B.S., Double Major in Electrical Engineering & Computer Science	Daejeon, Republic of Korea Feb 2019 – Aug 2025
	Hansung Science High School High School Diploma	Seoul, Republic of Korea Feb 2016 – Feb 2019
PUBLICATIONS	<i>C: conference, J: journal, W: workshop, P: preprint</i> <i>Equal contribution is denoted by “*”.</i>	
	[P1] Yohan Park , H. Ha, W. Jo, T.-H. Oh. “ DarKEQA: Benchmarking Vision-Language Models for Embodied Question Answering in Low-Light Indoor Environments, ” Under review.	
	[C2] J. Kim*, K. Koh*, S.S. Lee, Yohan Park , D. Park. “ Reactive Constraint Relaxation for Urban Environment Navigation, ” <i>Conference on Robot Intelligence Technology and Applications (RiTA)</i> , 2024. [video]	
	[C1] Yohan Park , D. Choi. “ A Study on the Stability of Humanoid Robots with Respect to Foot Structure, ” <i>Korea Robotics Society Annual Conference (KRoC)</i> , Future Robotic Scientist session, 2017.	
RESEARCH EXPERIENCE	KAIST Advanced Machine Intelligence (AMI) Lab <i>Research intern</i> Advisor: Prof. Tae-Hyun Oh	Daejeon, Republic of Korea Apr 2025–Feb 2026
	<ul style="list-style-type: none">Built DarKEQA [P1], a controlled benchmark that disentangles low-light exposure loss and sensor noise, enabling evaluation of VLMs on EQA-relevant perceptual primitivesDeveloped a depth-based semantic perception module for night-time embodied task execution	
	KAIST Robust Intelligence & Robotics (RIRO) Lab <i>Research intern</i> Advisor: Prof. Daehyung Park	Daejeon, Republic of Korea Dec 2023–Feb 2025
	<ul style="list-style-type: none">Built data preprocessing and multi-dataset training pipelines; fine-tuned a semantic segmentation model for outdoor robot navigation, extending the label space from 4 to 10 classes (2.5×)Integrated Behavior Trees with ROS-based navigation planner to enable long-horizon task execution with robust recovery behavior; validated on Boston Dynamics SpotDeveloped an RViz plugin for waypoint navigation in CARLA simulation and real-robot navigation	
HONORS AND AWARDS	RiTA 2024 Best Student Paper Award RiTA	2024
	Awarded to top 1 paper among all submissions to RiTA 2024 [article] [C2]	
	Youngpro Global Startup Pitch Competition Youngpro	2021
	Special Award; served as team leader	
	KAIST App Service Start-up Competition KAIST	2021
	Excellence award (6th place out of 20 finalist teams); served as team CEO	
	KRoC 2017 Best Student Paper Award Korea Robotics Society	2017
	Awarded to top 1 out of 13 teams in Future Robotic Scientist session [article] [C1]	

SKILLS	<p>Languages: English (Fluent) iBT TOEFL (MyBest Score): 109/120 (R: 29, L: 29, S: 26, W: 25), Chinese (Intermediate), German (Beginner), Korean (Native)</p> <p>Programming: Proficient in Python, C, C++, ROS; Familiar with X86-64 & MIPS Assembly, JAVA, Scala</p> <p>Tools: Git, Docker, Anaconda, CMake, MATLAB, Adobe XD, LaTeX</p>
PROJECTS	<p>Knowledge graph-guided autoregressive test generation for diversity-based LLM prompt testing (CS453 Automated Software Testing) Feb 2025–Jun 2025</p> <ul style="list-style-type: none"> Proposed the project topic and independently designed the system architecture featuring autoregressive behavior for knowledge graph-guided, diversity-based prompt testing for Large Language Models (LLMs); implemented collaboratively with team members <p>Finite State Machine-based manipulator system for teleoperation and trajectory control (EE405 Electronics Design Lab) Sep 2024–Dec 2024</p> <ul style="list-style-type: none"> Developed a finite state machine (FSM)-based control system for teleoperation and waypoint trajectory control of a 4-DoF manipulator, handling real-time communication with host machine <p>Whole-body manipulation of quadrupedal mobile manipulator via imitation learning (CS477 Introduction to Intelligent Robotics) Feb 2024–Jun 2024</p> <ul style="list-style-type: none"> Enabled 9-DoF mobile manipulator control via imitation learning using a Conditional Variational Autoencoder (CVAE), achieving a 60% average task success rate; extended the Mobile ALOHA framework; implemented collaboratively with team members
STARTUP EXPERIENCE	<p>tPilot Daejeon, Republic of Korea Project Founder All-in-one travel guide service Sep 2024–Dec 2024</p> <ul style="list-style-type: none"> Selected to lead a team for the 2024 KAIST Silicon Valley Entrepreneurship Workshop and Mentoring Program, preparing investor relations (IR) pitches for a U.S. audience Initiated a large language model (LLM)-powered travel guide service, enhancing user experience across planning, re-planning, and booking stages <p>Connected Daejeon, Republic of Korea Co-Founder & CEO Social media startup for offline relationships 2021–2022</p> <ul style="list-style-type: none"> Led team to the finals of the KAIST App Service Startup Competition, achieving 6th place among 20 finalist teams Developed an social networking app emphasizing offline relationships through geometric data analysis
MISCELLANEOUS	<p>Chongqing Liangjiang KAIST International Program Mentor Aug 2020–Jun 2021</p> <ul style="list-style-type: none"> Selected as one of few undergraduate mentors for international exchange students from China, two international students weekly <p>KAIST FEEL (KAIST EE Conference Camp) Program director Apr 2020–Dec 2021</p> <ul style="list-style-type: none"> Participated in organizing the first KAIST Get-FEEL conference, uniting electrical engineering students from numerous universities <p>KAIST Electrical Engineering Student Council Executive Branch Mar 2020–Dec 2021</p> <ul style="list-style-type: none"> Served as a student council member in the KAIST Electrical Engineering department, coordinating various departmental events <p>KAIST ISO (International Student Organization) Club Mar 2019–Dec 2020</p> <ul style="list-style-type: none"> Contributed to enhancing interactions between domestic and international KAIST students