

Yohan Park

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INTERESTS

Embodied AI, Robotic Foundation Models, Multimodal Learning, Long-Horizon Planning

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Republic of Korea
M.S. Student Mar 2026–
Advanced Machine Intelligence (AMI) Lab, advised by Prof. Tae-Hyun Oh

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Republic of Korea
B.S., Double Major in Electrical Engineering & Computer Science Feb 2019 – Aug 2025

Hansung Science High School Seoul, Republic of Korea
High School Diploma Feb 2016 – Feb 2019

PUBLICATIONS

J: Journal, *C*: Conference, *D*: Domestic (*: Equal contribution, †: Corresponding author)

Journal Articles

- J02. W. Jo, N. Hyeon-Woo, **Yohan Park**, H. Ha, T.-H. Oh[†], “When Fine-Tuning Drifts: Mitigating Policy Drift with Base Action-Field Regularization.”
Under Review
- J01. **Yohan Park**, H. Ha, W. Jo, T.-H. Oh[†], “DarkQA: Benchmarking Vision-Language Models for Visual-Primitive Question Answering in Low-Light Indoor Scenes.”
IEEE Robotics and Automation Letters (RA-L) 2026

Conference Papers

- C01. J. Kim*, K. Koh*, S.S. Lee, **Yohan Park**, D. Park[†], “Reactive Constraint Relaxation for Urban Environment Navigation.”
International Conference on Robot Intelligence Technology and Applications (RiTA) 2024 (Best Student Paper Award)
- D02. **Yohan Park**, H. Ha, T.-H. Oh[†], “A Depth-Map-Based Semantic Label Transfer System for Embodied Agents Using Scene Memory.”
Workshop on Image Processing and Image Understanding (IPIU) 2026 (Best Paper Award: Honorable Mention)
- D01. **Yohan Park**, D. Choi, “A Study on the Stability of Humanoid Robots with Respect to Foot Structure.”
Korea Robotics Society Annual Conference (KRoC) Future Robotic Scientist session 2017 (Best Student Paper Award)

RESEARCH EXPERIENCE

KAIST Advanced Machine Intelligence (AMI) Lab Daejeon, Republic of Korea
Research intern | Advisor: Prof. Tae-Hyun Oh Apr 2025–Feb 2026

- Built DarkQA [J01], an open-source benchmark for evaluating perceptual primitives under multi-level low-light conditions in embodied scenarios
- Developed a depth-based semantic perception module for night-time embodied task execution [D02]

KAIST Robust Intelligence & Robotics (RIRO) Lab Daejeon, Republic of Korea
Research intern | Advisor: Prof. Daehyung Park Dec 2023–Feb 2025

- Fine-tuned a semantic segmentation model for outdoor robot navigation with increased label space
- Integrated Behavior Trees with ROS-based navigation planner, enabling long-horizon task execution with robust recovery behavior; validated on Boston Dynamics Spot
- Developed an RViz plugin for waypoint navigation in CARLA simulation and real-robot navigation

SKILLS	Languages: English (Fluent) iBT TOEFL (MyBest Score): 109/120 (R: 29, L: 29, S: 26, W: 25), Chinese (Intermediate), German (Beginner), Korean (Native) Programming: Proficient in Python, C, C++, ROS; Familiar with X86-64 & MIPS Assembly, JAVA, Scala Tools: Git, Docker, Anaconda, CMake, MATLAB, Adobe XD, LaTeX		
HONORS AND AWARDS	IPIU 2026 Best Paper Award IPIU IPIU 2026 Best Paper Award (Honorable Mention) for a first-author paper		2026
	RiTA 2024 Best Student Paper Award RiTA Awarded to top 1 paper among all submissions to RiTA 2024 [article]		2024
	Youngpro Global Startup Pitch Competition Youngpro Special Award; served as team leader		2021
	KAIST App Service Start-up Competition KAIST Excellence award (6th place out of 20 finalist teams); served as team CEO		2021
	KRoC 2017 Best Student Paper Award Korea Robotics Society Awarded to top 1 out of 13 teams in Future Robotic Scientist session [article]		2017
PROJECTS	Knowledge graph-guided autoregressive test generation for diversity-based LLM prompt testing (CS453 Automated Software Testing) Feb 2025–Jun 2025 <ul style="list-style-type: none"> Proposed the project and independently designed a system for knowledge graph-guided, diversity-based prompt testing of Large Language Models (LLMs); implemented collaboratively with team members 		
	Finite State Machine-based manipulator system for teleoperation and trajectory control (EE405 Electronics Design Lab) Sep 2024–Dec 2024 <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 		
	Whole-body manipulation of quadrupedal mobile manipulator via imitation learning (CS477 Introduction to Intelligent Robotics) Feb 2024–Jun 2024 <ul style="list-style-type: none"> Developed a CVAE-based imitation learning system for 9-DoF mobile manipulator control extending the Mobile ALOHA framework, achieving a 60% average task success rate 		
STARTUP EXPERIENCE	tPilot Project Founder All-in-one travel guide service	Daejeon, Republic of Korea	Sep 2024–Dec 2024
	<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 		
	Connected Co-Founder & CEO Social media startup for offline relationships	Daejeon, Republic of Korea	2021–2022
	<ul style="list-style-type: none"> Led team to the KAIST App Service Startup Competition finals, placing 6th among 20 teams. Developed an social networking app emphasizing offline relationships through geometric data analysis 		

MISCELLANEOUS	Chongqing Liangjiang KAIST International Program Mentor	Aug 2020–Jun 2021
	KAIST FEEL (KAIST EE Conference Camp) Program director	Apr 2020–Dec 2021
	KAIST Electrical Engineering Student Council Executive Branch	Mar 2020–Dec 2021
	KAIST ISO (International Student Organization) Club	Mar 2019–Dec 2020