

Yunho Kim

Updated January 24, 2023

Email: awesomericky@kaist.ac.kr

Personal website: <https://awesomericky.github.io/>

GitHub: <https://github.com/awesomericky>

LinkedIn: <https://linkedin.com/in/awesomericky>

Citizenship: Republic of Korea

Research interests

Legged robotics, Machine learning, Perception-driven locomotion

Education

Korea Advanced Institute of Science and Technology

MS in Mechanical Engineering (Advisor: Jemin Hwangbo) 2022.09 – Current

Seoul National University

BA in Mechanical Engineering (GPA: 3.74/4.3) 2018.03 – 2022.02

Publications

Learning Forward Dynamics Model and Informed Trajectory Sampler for Safe Quadruped Navigation (RSS 2022)

Yunho Kim, Chanyoung Kim, Jemin Hwangbo.

Safety Guided Policy Optimization (IROS 2022)

Dohyeong Kim, Yunho Kim, Kyungjae Lee, Songhwai Oh.

Research experience

CORE Lab (Control, Optimization Research Lab)

Position: Undergraduate researcher 2020.04 – 2020.07

Advisor: Insoon Yang (Seoul National University)

Implemented path tracking and planning algorithm for autonomous RC car navigation using PID control and IT-MPC (Information-Theoretic Model Predictive Control). (Check the result [here](#))

RLLAB (Robot Learning Lab)

Position: Undergraduate researcher 2020.08 – 2021.03

Advisor: Songhwai Oh (Seoul National University)

Conducted research on language based human-robot interaction with the task of Multi-object Detection and Vision Language Navigation. (Check the result [here](#))

INROL (Interactive and Networked Robotics Lab)

Position: Undergraduate researcher 2021.03 – 2021.06

Advisor: Dongjun Lee (Seoul National University)

Conducted research on learning multiple gaits of quadruped robots using hierarchical reinforcement learning. (Check the result [here](#))

RAI LAB (Robotics and Artificial Intelligence Lab)

	Position: Student researcher Advisor: Jemin Hwangbo (KAIST) Conducted research on the safe navigation of quadruped robots in geometrically complex environments using model-based reinforcement learning. (Check the result here)	2021.06 – 2021.09, 2022.01 – 2022.-08
Industry experience	SAMSUNG C-LAB Position: Intern Developed Android application prototype for sensing data and informing user via Bluetooth communication.	2020.01 – 2020.02
Teaching experience	Teaching assistant (Seoul National University) Course: Core of Computing - Python (Advisor: Jehee Lee)	Spring 2021
Skills	Programming Python, C++ CAD modeling SOLIDWORKS, SketchUp Languages Korean (fluent), English (advanced)	
Other experience	Overseas volunteer work Participated in the overseas volunteer work in Vietnam Binh Dinh three times, thanks to SNUSR volunteer program. We had built rainwater purification system for the citizens and students. VESS club activity Participated in VESS (Volunteering Engineers and Scientists in SNU) club activity. We had studied about Appropriate Technology (AT) and done lots of projects to solve social problems in our life. President of 4th VESS club Worked as a president of 4th VESS club. Planned and ran club activity for one year with other executives.	2018.05 – 2019.08 2018.09 – 2020.02 2019.03 – 2020.02