

# Yunho Kim

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

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**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: 3.75/4.3) 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)**

