

Jeongyong Yang

M.S. candidate student | seiryu2238@kaist.ac.kr

Education

Mar. 2024 – Present **Korea Advanced Institute of Science and Technology (KAIST)**, Daejeon, South Korea

- M.S. Candidate in School of Electrical Engineering
- Advisor: Prof. SooJean Han

Mar. 2018 – Feb. 2024 **Hanyang University**, Seoul, South Korea

- B.S. in Automotive Engineering
 - B.S. in Convergence Technology for Advanced Vehicles (Dual Degree of CS)
- GPA: 4.24/4.5

Research Interests

- Vehicle Control and Decision Making
- Trajectory Planning

Publications

1. **J. Yang**, S. Jang, and S. Han, "SafeFlowMatcher: Safe and Fast Planning using Flow Matching with Control Barrier Functions," *arXiv preprint*, Oct. 2025.
2. **J. Yang**, M. Jeong, and S. Han, "RFF-Lifted Physics-Informed Koopman Network (RFF-PIKN)," in *Proc. KSAS*
3. **J. Yang**, K. Lee, and S. Han, "Heterogeneous Predictor-based Risk-Aware Planning with Conformal Prediction in Dense, Uncertain Environments," *arXiv preprint*, Jul. 2025.
4. **J. Yang**, H. Ju, and S. Han, "Curvature and Energy-based Trajectory Optimization in Unstructured Environments," in *Proc. Korean Robotics Conference (KRoC)*, Feb. 2025. (in Korean)

Work Experience

Jun. 2022~ Aug. 2022 **CONTROLWORKS: Summer Internship**, Seoul, South Korea

- K2 MCU Development – Engine Control Logic: Calculation of Fuel Quantity

Scholarships

Hanyang Brain (Academic Excellence) Scholarship, Hanyang University Fall 2022, Spring 2023

AE Academic Excellence Scholarship, Department of Automotive Engineering, Hanyang University

Spring 2022, Fall 2023

Diamond-7 Scholarship, Hanyang University

2018 ~ 2019

Skills

- Software Languages: C/C++ | Python | MATLAB/Simulink
- Simulation Programs: CarMaker
- CAD: CATIA