

Hayeon Oh

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Field of Interest

- Physical AI
- LLM Agent for Autonomous Driving
- Vision-Language-Action Alignment

Education

Hanyang University <i>M.S in Automotive Engineering</i> (Advisor : Kunsoo Huh)	<i>Mar. 2023 – Feb. 2025</i> <i>Seoul, South Korea</i>
Hanyang University <i>B.S in Electrical Engineering, Cum Laude</i>	<i>Mar. 2019 – Feb. 2023</i> <i>Ansan, South Korea</i>


Experience

Research Associate (Post-Master's Researcher) <i>ETRI (Electronics and Telecommunications Research Institute)</i> <ul style="list-style-type: none"> ◦ Research on incorporating counterfactual reasoning into an LLM agent. ◦ Research on leveraging reinforcement fine-tuning with path planning. 	<i>Daejeon, South Korea</i> <i>Feb. 2025 – Current</i>
Research Intern <i>ETRI (Electronics and Telecommunications Research Institute)</i> <ul style="list-style-type: none"> ◦ Developed action detection model identifying rear light for trajectory prediction. ◦ Developed semantic segmentation model for regional understanding. 	<i>Daejeon, South Korea</i> <i>Jan. 2023 – Feb. 2023</i>
Research Intern <i>ETRI (Electronics and Telecommunications Research Institute)</i> <ul style="list-style-type: none"> ◦ Developed a converter for simulation data compatible with SOTA models. 	<i>Daejeon, South Korea</i> <i>Jul. 2022 – Aug. 2022</i>

Publications

- “LaViPlan: Language-Guided Visual Path Planning with RLVR”
Hayeon Oh, *International Conference on Computer Vision (ICCV) 2025 Workshop on the Challenge of Out-of-Label Hazards in Autonomous Driving*, 2025.
- “Fine-Grained Weather Awareness with Vision-Language Models for Seamless Autonomous Driving in Real Time”
 Jinwoo Kim, **Hayeon Oh**, Youngmin Oh, Kyoungwan An, Donghwan Lee, *International Conference on Computer Vision (ICCV) 2025 Workshop on the Challenge of Out-of-Label Hazards in Autonomous Driving*, 2025.
- “SeSame: Simple, Easy 3D Object Detection with Point-Wise Semantics”
Hayeon Oh, Chanuk Yang, Kunsoo Huh, *Asian Conference on Computer Vision (ACCV)*, 2024.

Honor & Awards

Special Prize in the Autonomous Electric Vehicle Competition (link)  TS, KATECH, KASA	<i>Oct. 2022</i>
Hanyang Brain Scholarship Hanyang University	<i>2019S, 2019F, 2020S, 2022F</i>