Haeone Lee

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Research interest

I am interested in robot learning. I aim to develop a method that can extract behavioral rules from existing data efficiently and help the agent continuously self-improve. Relevant topics include imitation learning from various data sources and scalable reinforcement learning (RL) algorithms that can work in real robots.

Education

Korea Advanced Institute of Science and Technology. Feb 2025 – Present
MS in Artificial Intelligence Advisor: Kimin Lee

B.S. Degree Examination for Self-Education Aug 2020 – Nov 2021
B.S. in Computer Science.

GPA: 4.3/4.3
Grade distributed: 0.01∼3.00%
Calculated Score: 100/100

Research Experience

KAIST AI
Advisor: Kimin Lee March 2024 –

- Developed a robot data curation method based on influence functions [1].
- Worked on scalable RL algorithms applicable for VLA models and real robots [3].
- Worked on leveraging multi-view dataset efficiently in robot learning [4].

Working Experience

Config Intelligence
Research intern January 2025 –

- Developed Qwen3-VL based vision-language-action (VLA) model.
- Developed teleopeartion & inference framework for Franka Research3 and RB-Y1 humanoid robot.

Publications

[1] **Haeone Lee**, Taywon Min, Junsu Kim, Sinjae Kang, Fangchen Liu, Lerrel Pinto, and Kimin Lee. "Quality over Quantity: Demonstration Curation via Influence Functions for Data-Centric Robot Learning". ICRA 2026.

[2] Suchae Jeong, Jaehwi Song, **Haeone Lee**, Hanna Kim, Jian Kim, Dongjun Lee, Dong Kyu Shin, Changyeon Kim, Dongyoon Hahm, Woogyeol Jin, Juheon Choi, and Kimin Lee "Learning Multi-View Spatial Reasoning from Cross-View Relations". Under Review.

[3] Changyeon Kim, **Haeone Lee**, Yeonggyo Seo, Kimin Lee, and Yuke Zhu. "DEAS: DEtached value learning with Action Sequence for Scalable Offline RL". ICLR 2026.

[4] Taywon Min, **Haeone Lee**, Youngchan Kwon, and Kimin Lee. "Understanding Impact of Human Feedback via Influence Functions". ACL 2025 Main.

[5] Juyong Lee, Taywon Min, Minyong Ahn, Dongyoon Hahm, **Haeone Lee**, Changyeon Kim, and Kimin Lee. "Benchmarking Mobile Device Control Agents across Diverse Configurations." CoLLAs 2025.

Service

Conference Reviewer: ICLR 2025, ACL 2025, ICRA 2026

Skills

Programming languages: Python, C/C++

Frameworks: PyTorch, Ubuntu, Linux

Knowledge: Reinforcement learning, Robot learning, Computer vision, Machine learning, Deep learning

Language: Korean(native), English(highly proficient)