Daehee Lee

Curriculum Vitae

Ph.D. Student @ Sungkyunkwan University
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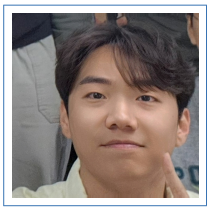
Google Scholar



Education

2022.09 – present **MS-PhD Combined, Computer Science and Engineering**, *SungKyunKwan University*, Suwon, South Korea.
Lifelong Learning Agent, Reinforcement Learning, Embodied Agent

2024.09 – 2025.02 **Visiting Scholar, Computer Science**, *Carnegie Mellon University*, Pittsburgh, PA, USA.
Deep Learning, Large Scale Multimedia Analysis, Natural Language Processing

2019.02 – 2022.08 **Bachelor of Engineering, Computer Science and Engineering**, *SungKyunKwan University*, Suwon, South Korea.

Publications

In Conference Proceedings

2025 Wonje Choi, Jinwoo Park, Sanghyun Ahn, **Daehee Lee**, and Honguk Woo. Nesyc: A neuro-symbolic continual learner for complex embodied tasks in open domains. In *The Thirteenth International Conference on Learning Representations (ICLR)*, 2025.

2024 **Daehee Lee**, Minjong Yoo, Woo Kyung Kim, Wonje Choi, and Honguk Woo. Incremental learning of retrievable skills for efficient continual task adaptation. In *The Thirty-eighth Annual Conference on Neural Information Processing Systems (NeurIPS)*, 2024.

2023 Sangwoo Shin, **Daehee Lee**, Minjong Yoo, Woo Kyung Kim, and Honguk Woo. One-shot imitation in a non-stationary environment via multi-modal skill. In *Proceedings of the 40th International Conference on Machine Learning (ICML)*, 2023.

Project Experience

SungKyunKwan University, CSI Agent Lab

2023.06 – present ***Policy Generalization via Multi-modal Skill Transfer***.
Developing a continual learning algorithm for skill-based agents, focusing on bidirectional knowledge transfer and multi-modal skill adaptation.

2023.05 – present ***Self-directed Multimodal Intelligence for Solving Unknown, Open-Domain Problems***.
Conducting research on continual imitation learning with unlearning. Developing a diffusion-based policy architecture for few-shot imitation learning.

2022.05 – 2024.03 ***Adaptive Personality for Intelligent Agents***.
Developing a multimodal semantic skill learning framework for a one-shot imitation learning algorithm in non-stationary environments.

2021.07 – 2022.12 ***Federated Reinforcement Learning for Fast Adaptation***.
Developing a federated reinforcement learning framework and learning scenarios. Focusing on multi-task reinforcement learning and meta-learning algorithms for task adaptation.

Advisor : **Dr. Honguk Woo**, *Associate Professor, Department of Computer Science & Engineering*, SunKyunKwan University (*Google Scholar*)

Carnegie Mellon University, Software and Societal Systems Department

2024.10 – 2025.02 ***Artificial Intelligence on the Edge with Robotics (AIER)***.
Project Manager for the design and development of a conversational robot cannon on embedded devices.

Grants & Fellowships

2022.09 – 2026.02 ***Graduate Student Excellence Scholarship*** Full Tuition Scholarship for Academic Excellence, SungKyunKwan University

2019.02 – 2022.08 ***Sungkyun Software Scholarship & Recommendation Scholarship & Student Success Scholarship*** Full Tuition Scholarship for Academic Excellence, SungKyunKwan University

Services

Reviewer ***CoLLAs 2025, NeurIPS 2025***