Daehee Lee

Ph.D. Student, Sungkyunkwan University

Computer Science and Engineering

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Continual Learning | Imitation Learning | Embodied Agent | Skill Memory | Multi-Agent Reinforcement Learning

RESEARCH INTEREST

Super-adaptive capabilities that enable sustainable lifelong learning in embodied and multi-agent systems.

EXPERIENCE

Sep. 2022 – Feb. 2028 — **CSI-Agent Group, Sungkyunkwan University** — Suwon, South Korea
Graduate Researcher / Team Lead
Advisor: Prof. Honguk Woo
Real-robot skill grounding, deployment, and evaluation using Franka Emika Research and UR7e manipulation platforms.

Sep. 2024 – Feb. 2025 — **Carnegie Mellon University** — Pittsburgh, PA, USA
Non-Degree Student, AI Intensive Program
Software and Societal Systems Department (S3D), School of Computer Science.
Team project: Conversational Robot Cannon System

EDUCATION

Sep. 2022 – Feb. 2028 — **Sungkyunkwan University** — Suwon, South Korea
M.S.-Ph.D. Combined Program
Department of Computer Science and Engineering.
Advisor: Prof. Honguk Woo

Sep. 2024 – Feb. 2025 — **Carnegie Mellon University** — Pittsburgh, PA, USA
Non-Degree Student, AI Intensive Program
Software and Societal Systems Department (S3D), School of Computer Science.
Program support: Institute of Information & Communications Technology Planning & Evaluation (IITP)

Feb. 2019 – Aug. 2022 — **Sungkyunkwan University** — Suwon, South Korea
B.E.
Department of Computer Science and Engineering.

PUBLICATIONS

Conference Proceedings

[C7] **Reconfiguring Procedural Knowledge for Compositional Robot Skill Adaptation**
Daehee Lee, Dongsu Lee, Sanghyun Ahn, Minjong Yoo, and Honguk Woo
Advances in Neural Information Processing Systems (NeurIPS), 2026.

[C6] **Efficient Skill Grounding via Code Refactoring with Small Language Models**
Sera Choi, Wonje Choi, Saehun Chun, Daehee Lee, Jooyoung Kim, Chaeun Lee, and Honguk Woo
International Conference on Machine Learning (ICML), 2026.

[C5] **Multi-agent Coordination via Flow Matching**
Dongsu Lee, Daehee Lee, and Amy Zhang
International Conference on Learning Representations (ICLR), 2026.

[C4] **Policy Compatible Skill Incremental Learning via Lazy Learning Interface**
Daehee Lee, Dongsu Lee, TaeYoon Kwack, Wonje Choi, and Honguk Woo
Advances in Neural Information Processing Systems (NeurIPS), 2025. **Spotlight**, Top 3.2%.

[C3] **NeSyC: A Neuro-symbolic Continual Learner for Complex Embodied Tasks in Open Domains**
Wonje Choi, Jinwoo Park, Sanghyun Ahn, Daehee Lee, and Honguk Woo
International Conference on Learning Representations (ICLR), 2025.

[C2] **Incremental Learning of Retrievable Skills for Efficient Continual Task Adaptation**
Daehee Lee, Minjong Yoo, Woo Kyung Kim, Wonje Choi, and Honguk Woo
Advances in Neural Information Processing Systems (NeurIPS), 2024.

[C1] **One-shot Imitation in a Non-Stationary Environment via Multi-Modal Skill**
Sangwoo Shin, Daehee Lee, Minjong Yoo, Woo Kyung Kim, and Honguk Woo
International Conference on Machine Learning (ICML), 2023.

Preprints

[P2] **A Recipe for Stable Offline Multi-agent Reinforcement Learning**
Dongsu Lee, Daehee Lee, and Amy Zhang
arXiv preprint, 2026.

[P1] **Unifying Agent Interaction and World Information for Multi-agent Coordination**
Dongsu Lee, Daehee Lee, Yaru Niu, Honguk Woo, Amy Zhang, and Ding Zhao
NeurIPS 2025 ARLET Workshop, **Oral Presentation**. arXiv preprint, 2025.

INVITED TALKS

Aug. 2026 **Skill Memory for Lifelong Embodied Agents**
Invited Talk • Sogang University • Seoul, South Korea

AWARDS AND SCHOLARSHIPS

Sep. 2022 – Feb. 2026 **Graduate Student Excellence Scholarship**
Full tuition scholarship for academic excellence, Sungkyunkwan University.

Dec. 2024 **Google East Asia Student Travel Grant**
NeurIPS 2024 travel grant, Google Asia Pacific Pte Ltd.

Feb. 2019 – Aug. 2022 **Sungkyun Software Scholarship**
Full tuition scholarships for academic excellence, Sungkyunkwan University.

ACADEMIC SERVICES

2025 – 2027 **Conference Reviewer**
CoLLAs (2025) NeurIPS (2025, 2026) ICLR (2026, 2027) ICML (2026) AAAI (2027)