

MACHINE LEARNING, ROBOTICS RESEARCHER

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Education

SNU (Seoul National University)

Seoul, Korea

Ph.D. in Mechanical & Aerospace Engineering

September. 2021 - Present

• Research topics: "Deep Reinforcement Learning, Robotics, Generative Model, Machine Learning."

SNU (Seoul National University)

Seoul, Korea

M.S. IN MECHANICAL & AEROSPACE ENGINEERING

September. 2019 - Aug. 2021

• Thesis topic: "Dual-arm Manipulation Using Hierarchical Reinforcement Learning."

SNU (Seoul National University)

Seoul, Korea

B.S. IN MECHANICAL & AEROSPACE ENGINEERING

Mar. 2013 - Aug. 2019

• Thesis topic: "Dynamic Obstacle Removal in ORB-SLAM2 via CNN-based Object Detection."

Publication

Jigang Kim, **Daesol Cho*** and H. Jin. Kim. (2023). Demonstration-free Autonomous Reinforcement Learning via Implicit and Bidirectional Curriculum, International Conference on Machine Learning (ICML).

Daesol Cho*, Seungjae Lee* and H. Jin. Kim. (2023). [Spotlight] Outcome-Directed Reinforcement Learning by Uncertainty & Temporal Distance-Aware Curriculum Goal Generation, International Conference on Learning Representations (ICLR).

Daesol Cho*, Dongseok Shim* and H. Jin. Kim. (2022). S2P: State-conditioned Image Synthesis for Data Augmentation in Offline Reinforcement Learning", Neural Information Processing Systems (NeurIPS).

Jigang Kim, J. hyeon Park, **Daesol Cho** and H. Jin. Kim. (2022). [presented in ICRA 2023] Automating Reinforcement Learning With Example-Based Resets, IEEE Robotics and Automation Letters (RA-L).

Daesol Cho, Jigang Kim and H. Jin. Kim. (2022). [presented in IROS 2022] Unsupervised Reinforcement Learning for Transferable Manipulation Skill Discovery, IEEE Robotics and Automation Letters (RA-L).

Honors & Awards & Scholarships _____

2023	Youlchon Al Young Researcher Fellowship
2022-2023	Brain Korea 21 Plus (BK21+) Ph.D Fellowship Scholarship
2022	Lecture & Research Scholarship
2019	Summa Cum Laude, Seoul National University
2017-2018	National Scholarship for Science and Engineering
2017-2018	System Technology Excellence Foundation (STX Foundation) Domestic Scholarship
2013-2014	National Scholarship for Academic Excellence

Experience

Deepest, SNU deep learning society

Seoul, Korea

RESEARCH GROUP PROJECT LEADER, MEMBER

September. 2021 - August. 2022

- Conduct an offline RL project.
- Attend Kaggle on Kore 2022 challenges (Top 11% in competition).

Applied Nano and Thermal Science Lab (ANTS)

Seoul, Korea

LABORATORY INTERNSHIP

January. 2018 - August. 2018

• Conduct experiments for electromagnetic shielding (EMI-shielding).

Projects _____

Transfer of Driving Dynamics Parameter between Car Models

Seoul, Korea

PROJECT LEADER April. 2022 - Present

Hyundai Motor Company

Transfer Learning for Multi-agent Systems

Seoul, Korea

MEMBER October. 2019 - October. 2021

Agency for Defense Development

BabyMind: Infant-Mimic Developmental Machine Learning

Seoul, Korea

Member April. 2019 - December. 2020

Korea Ministry of Science and ICT

RL Application of an A/C Unit via Domain Randomization

Seoul, Korea

MEMBER August. 2019 - November. 2020

LG Electronics

Extracurricular Activity

SNUOPEN Tennis Club in Seoul National University

Seoul, Korea

Member September. 2019 - Present

IMPACT Tennis Club in Seoul National University

Seoul, Korea

Member September. 2018 - August. 2019

Happy Move Volunteer Activity in Hyundai Motor Group

Chennai, India

MEMBER January. 2014 - February. 2014

SNU Habitat in Seoul National University

Seoul, Korea

Мемвек *Магсh. 2013 - February. 2015*

Teaching

2020-2021 Teaching Assistant at Seoul National University (Aerospace Engineering Experiment).

2019 Teaching Assistant at Seoul National University (Introductory Engineering Probability).

2019 Tutor at Seoul National University (Basic Calculus).

Skills

Programming Python, PyTorch, Tensorflow, Matlab, C/C++, LaTeX

Languages Korean, English