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1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea

## 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\_

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**

PROJECT LEADER

### **Transfer of Driving Dynamics Parameter between Car Models**

Seoul, Korea

April. 2022 - Present

Hyundai Motor Company

Daesol Cho · Curriculum Vitae APRIL 28, 2023

**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 March. 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