JAEKYEOM KIM

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RESEARCH INTERESTS

Deep reinforcement learning: discovery and abstraction of behaviors at scale and generalization of learned behaviors to new tasks or domains.

EDUCATION

Seoul National University

Mar. 2018 - Present

Integrated MS/PhD in Computer Science and Engineering (Expected graduation: 2023)

Vision & Learning Lab (Advisor: Prof. Gunhee Kim and Prof. Hyun Oh Song)

Korea Advanced Institute of Science and Technology

Bachelor of Science in Computer Science

Graduated summa cum laude

Feb. 2010 - Jun. 2017

GPA (Overall): 4.06/4.30 GPA (Major): 4.21/4.30

PUBLICATIONS

(*equal contribution)

Constrained GPI for Zero-Shot Transfer in Reinforcement Learning

Jackycom Kim, Seohong Park, Gunhee Kim

· NeurIPS 2022

Lipschitz-constrained Unsupervised Skill Discovery

Seohong Park, Jongwook Choi*, Jaekyeom Kim*, Honglak Lee, Gunhee Kim

· ICLR 2022

Time Discretization-Invariant Safe Action Repetition for Policy Gradient Methods

Seohong Park, Jackycom Kim, Gunhee Kim

· NeurIPS 2021

Unsupervised Skill Discovery with Bottleneck Option Learning

Jackycom Kim*, Seohong Park*, Gunhee Kim

· ICML 2021

Drop-Bottleneck: Learning Discrete Compressed Representation for Noise-Robust Exploration

Jaekyeom Kim, Minjung Kim, Dongyeon Woo, Gunhee Kim

· ICLR 2021

Model-Agnostic Boundary-Adversarial Sampling for Test-Time Generalization in Few-Shot Learning Jaekyeom Kim, Hyoungseok Kim, Gunhee Kim

• ECCV 2020 (Oral: $104/5025 \approx 2\%$)

EMI: Exploration with Mutual Information

Hyoungseok Kim*, Jackycom Kim*, Yeonwoo Jeong, Sergey Levine, Hyun Oh Song

· ICML 2019 (Long talk: $158/3424 \approx 4.6\%$)

HONORS & AWARDS

Youlchon AI Star Fellowship Youlchon Foundation	Jul.	2022
Naver PhD Fellowship $Naver$	Dec.	2021
Google PhD Fellowship Google	Sep.	2021
· Area: Machine Learning		
Samsung Humantech Paper Award Samsung Electronics	Feb.	2021
\cdot Silver Prize in Signal Processing, award for research work		
Qualcomm Innovation Fellowship Korea Qualcomm AI Research	Dec.	2020
· Award for research work		
On-Dream Outstanding Scholar Award Hyundai Motor Chung Mong-Koo Foundation	Dec.	2020
On-Dream Future Talent Graduate Scholarship Hyundai Motor Chung Mong-Koo Foundation	Jul. 2020 - Jul.	2021
\cdot Full-tuition and additional scholar ships for graduate study		
Kwanjeong Domestic Scholarship Kwanjeong Educational Foundation	Apr. 2018 - Mar.	2020
\cdot Full-tuition and additional scholar ships for 2 years		
Summa Cum Laude Honor Korea Advanced Institute of Science and Technology	Feb.	2018
National Presidential Science Scholarship Korea Student Aid Foundation	Feb. 2010 - Jun.	2017
\cdot Full-tuition and additional scholarships for undergraduate study		
KAIST Convergence AMP Scholarship Korea Advanced Institute of Science and Technology	Oct.	2016
· Merit-based scholarship awarded to 5 recipients		

ACADEMIC ACTIVITIES

Conference Reviewer

 \cdot ICML (2021, 2022, 2023), NeurIPS (2021, 2022), ICLR (2022, 2023)

Teaching Assistant at Seoul National University

- Probabilistic Graphical Models (M1522.001300), Spring, 2022

- · Statistical Foundations for A.I. and Machine Learning (M2480.000500), Fall, 2021
- · Theory and Lab of IoT, AI, and Big Data (M2177.004900), Spring, 2021
- · Probabilistic Graphical Models (M1522.001300), Spring, 2020
- · Introduction to Deep Learning (M2177.004300), Spring, 2019
- · Engineering Mathematics 2 (033.015), Fall, 2018
- · Introduction to Deep Learning (M2177.004300), Spring, 2018

WORK EXPERIENCE

ESTsoft, Seoul (Alternative Military Service)

Apr. 2013 - May 2016

Senior Software Engineer

· Developed the dual-engine web browser based on Chromium, a large-scale open source project that powers Google Chrome and more

Google, Seoul

Jun. 2012 - Sep. 2012

Software Engineering Intern

· Worked on processing raw text data to generate formalized entries and reconciling them with existing entries, as part of the Knowledge Graph project