JAEKYEOM KIM

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RESEARCH INTERESTS

- · Better robustness and adaptability to new data or tasks, largely in deep reinforcement learning (RL)
- · Representation learning and information-theoretic approaches in deep RL

EDUCATION

Seoul National University

Graduated summa cum laude

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

Feb. 2010 - Jun. 2017 GPA (Overall): 4.06/4.30

Bachelor of Science in Computer Science

GPA (Major): 4.21/4.30

PUBLICATIONS

(*equal contribution)

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, **Jackyeom 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 **Jackycom 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*, Jaekyeom Kim*, Yeonwoo Jeong, Sergey Levine, Hyun Oh Song

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

HONORS & AWARDS

Naver PhD Fellowship $Naver$	Dec. 2021
Google PhD Fellowship $Google$	Sep. 2021
· Area: Machine Learning	
Samsung Humantech Paper Award Samsung Electronics	Feb. 2021
· Silver Prize in Signal Processing, award for research work	
Qualcomm Innovation Fellowship Korea Qualcomm AI Research	Dec. 2020
· Award for research work	
Kwanjeong Domestic Scholarship Kwanjeong Educational Foundation	Apr. 2018 - Mar. 2020
\cdot Full-tuition and additional scholarships 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
\cdot Merit-based scholarship awarded to 5 recipients	
Code Sprint 2015 SK Planet	Jul. 2015
 R2 - 3rd Place: Made predictions on customers' future VOD pure R1 - Special Award: Wrote algorithms for Robocode agents Only competitor who won prizes in both of the competitions 	chases given their past purchase lists
ITCSC-INC 2012 Winter School Chinese University of Hong Kong	Jan. 2012

ACADEMIC ACTIVITIES

Conference Reviewer

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

 \cdot One of 2 Korean and 48 other Asian students chosen and invited

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