

JAEKYEOM KIM

<https://jaekyeom.github.io> ◇ CV (PDF) ◇ jaekyeom@snu.ac.kr ◇ (+82) 10-8949-1531

RESEARCH INTERESTS

- Better robustness to new inputs or domains, largely in reinforcement learning (RL)
- Representation learning and Information-theoretic approaches in RL

EDUCATION

Seoul National University

Mar. 2018 - Present

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

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

Korea Advanced Institute of Science and Technology

Feb. 2010 - Jun. 2017

Bachelor of Science in Computer Science

GPA (Overall): 4.06/4.30

Graduated *summa cum laude*

GPA (Major): 4.21/4.30

Incheon Science High School

Mar. 2008 - Feb. 2010

PUBLICATIONS

Unsupervised Skill Discovery with Bottleneck Option Learning

Jaekyeom Kim*, Seohong Park*, Gunhee Kim

(*equal contribution)

- **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, Hyungseok Kim, Gunhee Kim

- **ECCV 2020 (Oral: 104/5025 \approx 2%)**

EMI: Exploration with Mutual Information

Hyungseok Kim*, **Jaekyeom Kim***, Yeonwoo Jeong, Sergey Levine, Hyun Oh Song

(*equal contribution)

- **ICML 2019 (Long talk: 158/3424 \approx 4.6%)**

HONORS & AWARDS

Google PhD Fellowship

Sep. 2021

Google

- Machine Learning

Samsung Humantech Paper Award

Feb. 2021

Samsung Electronics

- Silver Prize in Signal Processing, one-time award for research work

Qualcomm Innovation Fellowship Korea

Dec. 2020

Qualcomm AI Research

- One-time award for research work

Kwanjeong Domestic Scholarship

Apr. 2018 - Mar. 2020

Kwanjeong Educational Foundation

- Full-tuition and additional scholarships for 2 years

Summa Cum Laude Honor

Feb. 2018

Korea Advanced Institute of Science and Technology

National Presidential Science Scholarship

Feb. 2010 - Jun. 2017

Korea Student Aid Foundation

- Full-tuition and additional scholarships for undergraduate study

KAIST Convergence AMP Scholarship

Oct. 2016

Korea Advanced Institute of Science and Technology

- Merit-based scholarship awarded to 5 recipients

Code Sprint 2015

Jul. 2015

SK Planet

- **R2 - 3rd Place:** Made predictions on customers' future VOD purchases given their past purchase lists
- **R1 - Special Award:** Wrote algorithms for Robocode agents
- Only competitor who won prizes in both of the competitions

ITCSC-INC 2012 Winter School

Jan. 2012

Chinese University of Hong Kong

- One of 2 Korean and 48 other Asian students chosen and invited

ACADEMIC ACTIVITIES

Conference Reviewer

- ICML (2021), NeurIPS (2021), ICLR (2022)

Teaching Assistant at Seoul National University

- 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