

# JAEKYEOM KIM

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## RESEARCH INTERESTS

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- Better adaptation to new inputs or domains, largely in reinforcement learning
- Information-theoretic approaches and analyses

## EDUCATION

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<b>Seoul National University</b> Integrated MS/PhD in Computer Science and Engineering (Expected graduation: Feb 2023) Vision & Learning Lab (Advisor: Prof. Gunhee Kim and Prof. Hyun Oh Song)	<i>Mar. 2018 - Present</i>
<b>Korea Advanced Institute of Science and Technology</b> Bachelor of Science in Computer Science Graduated <i>summa cum laude</i>	<i>Feb. 2010 - Jun. 2017</i> GPA (Overall): 4.06/4.30 GPA (Major): 4.21/4.30
<b>Incheon Science High School</b>	<i>Mar. 2008 - Feb. 2010</i>

## PUBLICATIONS

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- 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

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- Samsung Humantech Paper Award**  
*Samsung Electronics*  
*Feb. 2021*
- Silver Prize in Signal Processing, one-time award for research work
- Qualcomm Innovation Fellowship Korea**  
*Qualcomm AI Research*  
*Dec. 2020*
- 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**

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**Conference Reviewer**

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

**Teaching Assistant at Seoul National University**

- 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**

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**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