

# Kwanyoung Park

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🔗 <https://github.com/kwanyoungpark>

## EDUCATION

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### Seoul National University

B.S. in Computer Science & Engineering

B.S. in Mathematical Sciences (Minor)

\* Leave of absence for military service: July 2021 - Jan 2023

Mar '19 - Present

GPA: 3.97 / 4.3

### Stanford University

Visiting student

Jun '23 - Aug '23

GPA: 4.0 / 4.0

### Gyeonggi Science High School

High school for gifted students in science and mathematics

Mar '16 - Feb '19

## RESEARCH INTERESTS

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- Offline reinforcement learning
- Unsupervised reinforcement learning
- Robot learning

## PUBLICATIONS (\* denotes equal contribution.)

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1. **Kwanyoung Park**, Youngwoon Lee  
*Model-based Offline Reinforcement Learning with Lower Expectile Q-Learning*  
Preprint, 2024 (submitted to **ICLR 2025**)
2. Junik Bae, **Kwanyoung Park**, Youngwoon Lee  
*TLDR: Unsupervised Goal-Conditioned RL via Temporal Distance-Aware Representations*  
Conference on Robot Learning (**CoRL**), **2024**
3. **Kwanyoung Park\***, Hyunseok Oh\*, Youngki Lee  
*VECA: A New Benchmark and Toolkit for General Cognitive Development*  
AAAI Conference on Artificial Intelligence (**AAAI**), **2022**  
**(Oral presentation, Acceptance Rate: 384/9,251 = 4.15%)**
4. Junseok Park, **Kwanyoung Park**, Hyunseok Oh, Ganghun Lee, Minsu Lee, Youngki Lee, Byoung-Tak Zhang  
*Toddler-Guidance Learning: Impacts of Critical Period on Multimodal AI Agents*  
ACM International Conference on Multimodal Interaction (**ICMI**), **2021**  
**(Oral presentation)**
5. **Kwanyoung Park**, Junseok Park, Hyunseok Oh, Byoung-Tak Zhang, Youngki Lee  
*Learning Task-agnostic Representation via Toddler-inspired Learning*  
**NeurIPS 2020 Workshop on BabyMind**, **2020**

## EXPERIENCE

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### Yonsei RL Lab

Jan '24 - Present

- *Undergraduate Research Intern* (Advisor: [Youngwoon Lee](#))

- Researching on scaling up model-based reinforcement learning algorithms to robotic tasks.
- Researched on a model-based offline RL method that enables reliable long simulated rollouts (15 steps) by applying lower-expectile regression to  $\lambda$ -returns, improving long-term decision-making [1].
- Researched on a goal-conditioned unsupervised RL algorithm that utilizes temporal distances [2].

### SNU Human-Centered Computer Systems Lab

Feb '23 - Dec '23

- *Undergraduate Research Intern* (Advisor: [Youngki Lee](#))

- Researched on a NeRF model architecture (with Gaussian Splatting) that can reduce network consumption for on-device applications.

### Ministry of National Defense

Jul '21 - Jan '23

- *Research Engineer (Military Service)*

- Worked as main developer of an NLP project
- Trained a BERT-based model for Korean language and fine-tuned it for sentence generation.

### SNU Human-Centered Computer Systems Lab

Jun '19 - Jun '21

- *Undergraduate Research Intern* (Advisor: [Youngki Lee](#))

- Developed VECA, which is the first benchmark to assess the overall cognitive development of an AI agent, including a toolkit to generate diverse and distinct cognitive tasks [3].
- Researched the impact of guidance (e.g. offline trajectory, dense rewards) during reinforcement learning and its performance on transfer learning [4].
- Developed a representation learning algorithm based on the agents interaction using VECA [5].

## SCHOLARSHIPS

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### Presidential Science Scholarship

Mar '19 - Present

- [Korea Student Aid Foundation \(KOSAF\)](#)
- Full tuition, living expenses support for undergraduate studies.

### Gyeonggi-do Special Scholarship (Science Technology)

Mar '16 - Feb '19

- Gyeonggi-do
- Full-ride scholarship for 3 years.

## AWARDS

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2023 | **Special Award**, MAICON 2023 (Military AI Competition)

2022 | **Special Award**, MAICON 2022 (Military AI Competition)

2018 | **Honorable Mention**, IMMC (International Mathematical Modeling Challenge)

2018 | **Bronze Prize**, Samsung Humantech Paper Award (Advisor: Hyunju Ju)  
*Modeling a Remora-Inspired Sucker Structure for Ship Flood Prevention Pads*

2015 | **1st place**, KOI (Korea Olympiad in Informatics)

## SKILLS

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### Programming Language

- C, C++, Python (Pytorch, Tensorflow, Jax), C# (Unity), Java

### Machine Learning

- Reinforcement learning, Vision, 3D geometry (NeRF), NLP

### Languages

- Korean: Native
- English: Proficient
  - TOEFL: 109/120
  - GRE: 163/170 (Verbal), 169/170 (Quant), 4.5/6.0 (Writing)
- Japanese: Proficient
  - JLPT N1: 168/180

## SERVICES

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### Reviewer

- Conferences: ICLR 2025
- Workshops: WCBM@CoRL 2024

## TEACHING

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### Teaching Assistant

- AAI4160 Reinforcement Learning, Spring 2024