Kwanyoung Park

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https://github.com/kwanyoungpark

EDUCATION

University of California, Berkeley Aug '25 - Present
Ph.D. in Electrical Engineering and Computer Science
Berkeley Artificial Intelligence Research (BAIR) lab
Advisor: Sergey Levine and Pieter Abbeel

Seoul National University Mar '19 - Aug '25
B.S. in Computer Science & Engineering *Summa Cum Laude*
B.S. in Mathematical Sciences (Minor)
* Leave of absence for military service: July 2021 - Jan 2023

Stanford University Jun '23 - Aug '23
Visiting student

Gyeonggi Science High School Mar '16 - Feb '19
High school for gifted students in science and mathematics

RESEARCH INTERESTS

- Offline reinforcement learning
- Model-based reinforcement learning
- Unsupervised reinforcement learning
- Robot learning

PUBLICATIONS (* denotes equal contribution.)

1. **Kwanyoung Park**, Seohong Park, Youngwoon Lee, Sergey Levine
Scalable Offline Model-Based RL with Action Chunks
Preprint, 2025

2. **Kwanyoung Park**, Youngwoon Lee
Model-based Offline Reinforcement Learning with Lower Expectile Q-Learning
International Conference on Learning Representations **(ICLR), 2025**

3. Junik Bae, **Kwanyoung Park**, Youngwoon Lee
TLDR: Unsupervised Goal-Conditioned RL via Temporal Distance-Aware Representations
Conference on Robot Learning **(CoRL), 2024**

4. **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%)

5. 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)

6. **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

Berkeley Artificial Intelligence Research (BAIR) Aug '25 - Present
- *PhD Student* (Advisor: Sergey Levine, Pieter Abbeel)
  - Researched on scaling model-based offline RL method to long-horizon tasks, by enabling extremely long (100 steps) model-generated rollouts with action chunking [1].
  - Researching on meta-RL approach for model-based RL, where the agent can find their own planning strategy through interaction.

Yonsei RL Lab Jan '24 - Aug '25
- *Undergraduate Research Intern* (Advisor: Youngwoon Lee)
  - Researched on a model-based offline RL method that enables reliable long simulated rollouts (15 steps) by applying lower-expectile regression to λ-returns, improving long-term decision-making [2].
  - Participated in research on a goal-conditioned unsupervised RL algorithm that utilizes temporal distances [3].

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 [4].
  - Researched the impact of guidance (e.g. offline trajectory, dense rewards) during reinforcement learning and its performance on transfer learning [5].
  - Developed a representation learning algorithm based on the agents interaction using VECA [6].

SCHOLARSHIPS

KFAS Overseas PhD Scholarship Sep '25 - Present
- Korea Foundation for Advanced Studies (KFAS)
- Stipend support during the doctoral studies.

Berkeley Fellowship Sep '25 - Present
- UC Berkeley
- Stipend support for the first semester of doctoral studies.

Presidential Science Scholarship Mar '19 - Aug' 25
- 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

AWARDS

2025 | **Summa Cum Laude**, Seoul National University

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

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
  - GRE: 163/170 (Verbal), 169/170 (Quant), 4.5/6.0 (Writing)
- Japanese: Proficient
  - JLPT N1: 168/180

SERVICES

Reviewer
- Conferences: ICLR 2025, NeurIPS 2026, ICLR 2026
- Workshops: WCBM @ CoRL 2024, World Models @ ICLR 2025

TEACHING

Teaching Assistant
- AAI4160 Reinforcement Learning, Spring 2024