

Kwanyoung Park

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EDUCATION

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

PUBLICATIONS AND PREPRINTS (* denotes equal contribution.)

1. **Kwanyoung Park**, Youngwoon Lee
Tackling Long-Horizon Tasks with Model-based Offline Reinforcement Learning
Preprint, 2024 (submitted to **NeurIPS, 2024**)
2. Junik Bae, **Kwanyoung Park**, Youngwoon Lee
Unsupervised Goal-Conditioned RL via Temporal Distance-Aware Representations
Preprint, 2024 (submitted to **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

SCHOLARSHIPS

Presidential Science Scholarship

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

Mar '19 - Present

Gyeonggi-do Special Scholarship (Science Technology)

- Gyeonggi-do
- Full-ride scholarship

Mar '16 - Feb '19

AWARDS

- 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)

EXPERIENCE

- Yonsei RL Lab** Jan '24 - Present
- *Undergraduate Research Intern* (Advisor: [Youngwoon Lee](#))
- Researching on offline model-based reinforcement learning algorithms that can tackle long-horizon tasks [1].
 - Participated in research 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].

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)