Kwanyoung Park

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Education

Seoul National University Mar '19 - Present
B.S. in Computer Science & Engineering, B.S. in Mathematics (Minor) GPA: 3.83 / 4.0
Leave of absence for military service: July 2021 - Jan 2023

Stanford University Jun '23 - Aug '23
Visiting student GPA: 4.0 / 4.0

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

Experience

Yonsei RL Lab - *Undergraduate Research Intern* Jan '24 - Present
- Researching on offline model-based reinforcement learning algorithms, especially focusing on exploiting shared world models for multiple tasks.

SNU Human-Centered Computer Systems Lab - *Undergraduate Research Intern* Feb '23 - Dec '23
- Researched a NeRF model architecture (based on Gaussian Splatting) that can reduce network consumption while being executable in mobile devices.

Ministry of National Defense - *Research Engineer (Military Service)* Jul '21 - Jan '23
- Worked as main developer of an NLP project
- Trained a BERT-based model for a specific domain of Korean language and fine-tuned it for various tasks.

SNU Human-Centered Computer Systems Lab - *Undergraduate Research Intern* Jun '19 - Jun '21
- 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.
- Developed a representation learning algorithm based on the agents interaction using VECA.
- Researched the impact of guidance (e.g. offline trajectory, dense rewards) during reinforcement learning and its performance on transfer learning.

Publications

1. **Kwanyoung Park***, Hyunseok Oh*, Youngki Lee
VECA: A New Benchmark and Toolkit for General Cognitive Development
Accepted in **AAAI, 2022 (Oral presentation)**

2. 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
Accepted in **ICMI, 2021 (Oral presentation)**

3. **Kwanyoung Park**, Junseok Park, Hyunseok Oh, Byoung-Tak Zhang, Youngki Lee
Learning Task-agnostic Representation via Toddler-inspired Learning
Accepted in **NeurIPS Workshop, 2020**

Scholarships

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 - Dec '18
- Gyeonggi-do
- Full-ride scholarship

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)

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

SKILLS

- **Programming Languages**: C, C++, Python (Pytorch, Tensorflow), C# (Unity), Java
- **Machine Learning**: Vision, 3D geometry (NeRF), Reinforcement Learning, NLP
- **Languages**: Korean (Native)
  English (Proficient, GRE: 163/170 (Verbal), 169/170 (Quant), 4.5 (Writing))
  Japanese (Proficient, JLPT N1: 167/180)