

# Kwanyoung Park

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## EDUCATION

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<b>Seoul National University</b> B.S. in Computer Science & Engineering, B.S. in Mathematics (Minor) Leave of absence for military service: July 2021 - Jan 2023	Mar '19 - Present GPA: 3.83 / 4.0
<b>Stanford University</b> Visiting student	Jun '23 - Aug '23 GPA: 4.0 / 4.0
<b>Gyeonggi Science High School</b> High school for gifted students in science and mathematics	Mar '16 - Feb '19

## EXPERIENCE

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<b>Yonsei RL Lab - Undergraduate Research Intern</b> <ul style="list-style-type: none"><li>Researching on offline model-based reinforcement learning algorithms, especially focusing on exploiting shared world models for multiple tasks.</li></ul>	Jan '24 - Present
<b>SNU Human-Centered Computer Systems Lab - Undergraduate Research Intern</b> <ul style="list-style-type: none"><li>Researched a NeRF model architecture (based on Gaussian Splatting) that can reduce network consumption while being executable in mobile devices.</li></ul>	Feb '23 - Dec '23
<b>Ministry of National Defense - Research Engineer (Military Service)</b> <ul style="list-style-type: none"><li>Worked as main developer of an NLP project</li><li>Trained a BERT-based model for a specific domain of Korean language and fine-tuned it for various tasks.</li></ul>	Jul '21 - Jan '23
<b>SNU Human-Centered Computer Systems Lab - Undergraduate Research Intern</b> <ul style="list-style-type: none"><li>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.</li><li>Developed a representation learning algorithm based on the agents interaction using VECA.</li><li>Researched the impact of guidance (e.g. offline trajectory, dense rewards) during reinforcement learning and its performance on transfer learning.</li></ul>	Jun '19 - Jun '21

## PUBLICATIONS

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

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<b>Presidential Science Scholarship</b> <ul style="list-style-type: none"><li>Korea Student Aid Foundation (KOSAF)</li><li>Full tuition, living expenses support for undergraduate studies.</li></ul>	Mar '19 - Present
<b>Gyeonggi-do Special Scholarship (Science Technology)</b> <ul style="list-style-type: none"><li>Gyeonggi-do</li><li>Full-ride scholarship</li></ul>	Mar '16 - Dec '18

## 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

## SKILLS

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- **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), 4.5/6.0 (Writing))
  - Japanese (Proficient, JLPT N1: 167/180)