

SEUNGPIIL LEE

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Personal Statement

Passionate undergraduate student studying artificial intelligence. Interested in Brain-Inspired AI, Natural Language Processing and Reinforcement Learning. Also, maintaining keen interest in interdisciplinary subjects such as Cognitive Science and Science, Technology and Society(STS).

EDUCATION

Gwangju Institute of Science and Technology(GIST)

Undergraduate

Major in Electrical Engineering and Computer Science

Minor in Mathematics

Minor in Literature

March 2018 - Present

Overall GPA: 3.63/4.50

UC Berkeley

Berkeley Summer Session Program

June 2019 - August 2019

Overall GPA: 4.00/4.00

SKILLS

Computer Languages

C, C++, Java, JavaScript, Python

Software & Tools

LaTeX, Spring, Spring Boot

Language

Korean(Native Language), English(Intermediate)

EXPERIENCE

DataScience Lab in GIST

September 2023 - Present

Undergraduate Internship

- Tried to solve Abstraction and Reasoning Corpus (ARC) benchmark using World Model and Meta Reinforcement Learning

Development Team in Korea Navy

January 2022 - September 2023

- Developed App and Web service for Korean Navy, mainly as back-end developer

BioComputing Lab in GIST

June 2020 - January 2021

Undergraduate Internship

- Tried to develop new Spiking Neural Network method with synthetic gradient

AWARD & SCHOLARSHIP

Korean Government Scholarships, GIST College

March 2018 - present

- Scholarship awarded to students studying in GIST

Scholarship for Summer Session Abroad

June 2019 - August 2019

- Scholarship awarded to students studying abroad during a summer session

Navy AI Competition

June 2023 - August 2023

- Awarded drone object detecting competition hosted by Korean Navy

K-StartUp finals

March 2023 - November 2023

- Advanced to the finals of Korean largest start-up contest, 'K-StartUp', as ML researcher and back-end developer

ACADEMIC ACTIVITIES

Publications

- Seungpil Lee, Jihwan Lee, Sundong Kim, "Evaluating Prior Knowledge of ARC Using World Models" **Korea Software Congress, 2023.**

Projects

- **Software Engineering and Project:** Made a anonymous community system, which censors toxic comments automatically
- **Artificial Intelligence:** Developed a model to identify the actions carried out by a person given a set of observations(acceleration and gyro on x, y, z axis each with 2.56 second window) of itself and the surrounding environment

EXTRA-CURRICULAR

AGIST

August 2020 - January 2021

Deep Learning Study Group

- Listened to presentations about various machine learning algorithms including explainable AI and Brain-inspired AI
- Prepared presentations of Spiking Neural Network(SNN) with Spike-Timing-Dependent Plasticity(STDP) learning