

# DONGHYEON SHIN

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## Personal Statement

Passionate graduate student studying artificial intelligence. Interested in Natural Language Processing and Reinforcement Learning. I am focusing on research towards Artificial General Intelligence, with a primary emphasis on the most prominent Large Language Models and Skill-based Reinforcement Learning.

## EDUCATION

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**Gwangju Institute of Science and Technology(GIST)**

*March 2018 - February 2024*

Undergraduate

Overall GPA: 3.71/4.50

Major in Electrical Engineering and Computer Science

Minor in Mathematics

**UC Berkeley**

*June 2019 - August 2019*

Berkeley Summer Session Program

Overall GPA: 4.00/4.00

**Gwangju Institute of Science and Technology(GIST)**

*March 2018 - Ongoing*

Master Student

Overall GPA: 4.08/4.50

Major in Artificial Intelligence

## ACADEMIC ACTIVITIES

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### Publications

- Seungpil Lee\*, Woochang Sim\*, **Donghyeon Shin\***, Sanha Hwang, Wongyu Seo, Jiwon Park, Seokki Lee, Sejin Kim, and Sundong Kim, *Reasoning Abilities of Large Language Models: In-Depth Analysis on the Abstraction and Reasoning Corpus*, **ACM TIST** (2024)
- **Donghyeon Shin\***, Seungpil Lee\*, Klea Lena Kovačec, and Sundong Kim, *From Generation to Selection: Findings of converting Analogical Problem-Solving into Multiple-Choice Questions*, **EMNLP Findings** (2024)
- **Donghyeon Shin**, Seungpil Lee, Klea Lena Kovačec, and Sundong Kim, *Regulation Using Large Language Models to Generate Synthetic Data for Evaluating Analogical Ability*, **IJCAI Workshop** (2024)
- **Donghyeon Shin**, Sanha Hwang, Seokki Lee, Yunho Kim, Seungpil Lee, and Sundong Kim, *MC-LARC Benchmark to Measure LLM Reasoning Capability*, **Korea Software Congress** (2023)
- Jaehyun Park, Jagyun Im, Youngdo Lee, **Donghyeon Shin**, Sejin Kim, and Sundong Kim, *Abstraction and Reasoning Challenge with Decision Transformer*, **Korea Computer Congress** (2023)
- Jinseong Son, **Donghyeon Shin**, and Chi-Ok Hwang, *Walk-on-Hemispheres First-Passage Algorithm*, **Scientific Reports** (2023)

## SKILLS

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**Computer Languages**

C, C++, Python

**Software & Tools & Framework**

LaTeX, Figma, PyTorch, JAX

**Language**

Korean(Native Language), English(Intermediate)

## FUNDING & SCHOLARSHIP

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### **Korean Government Scholarships, GIST College**

March 2024 - Present

- Scholarship awarded to graduate students studying in GIST

### **National Research Foundation of Korea Funding, NRF**

July 2024 - Present

- Funding offered to eligible master's students for conducting research projects

### **Korean Government Scholarships, GIST College**

March 2018 - February 2024

- Scholarship awarded to undergraduate students studying in GIST

### **Scholarship for Summer Session Abroad**

June 2019 - August 2019

- Scholarship awarded to students studying abroad during a summer session

## EXPERIENCE

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### **DataScience Lab in GIST**

March 2024 - Present

*Master Student*

- Proposed a new benchmark called Multi-Choice Language ARC (MC-LARC)
- Researched the reasoning ability of LLMs

### **DataScience Lab in GIST**

March 2023 - February 2024

*Undergraduate Internship*

- Tried to solve Abstraction and Reasoning Corpus (ARC) benchmark using Skill-based Reinforcement Learning