DONGHYEON SHIN

(+82) 10 7736 8525 ⋄ shindong97411@gmail.com
123, Cheomdangwagi-ro, Buk-gu, Gwangju
Republic of Korea, 61005

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

Gwangju Institute of Science and Technology(GIST) *March 2024 - Ongoing*
Master Student Overall GPA: 4.08/4.50
Major in Artificial Intelligence

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

ACADEMIC ACTIVITIES

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** (2025)

· **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

Computer Languages	C, C++, Python
Software & Tools & Framework	LaTeX, Figma, PyTorch, JAX
Language	Korean(Native Language), English(Intermediate)

FUNDING & SCHOLARSHIP

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 2024 - Present

· Scholarship awarded to graduate students studying in GIST

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

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