
EDUCATION

University of Michigan

Aug 2024 - Present

Ph.D. in Computer Science and Engineering (Advisor: Lu Wang)

Seoul National University

Mar 2020 - Feb 2024

B.S. in Computer Science and Engineering

GPA: 4.18/4.3 (cumulative), 4.17/4.3 (major)

Summa cum laude, rank: 1st in the department

Seoul Science High School

Mar 2017 - Feb 2020

The school for gifted students in mathematics and science, teaching college-level math and science

GPA: 4.18/4.3

PUBLICATIONS

MET: Theory-Grounded and Culture-Aware Multilingual Moral Reasoning

- Developed a new evaluation dataset for culturally-adapted moral decision-making, addressing the limitations of direct translation.
- Curated theoretical grounds for moral reasoning with a domain expert.
- Proposed a prompting and self-distillation method for adaptive, theory-grounded reasoning.

Ayoung Lee, Ryan Sungmo Kwon, Yunxiang Zhang, Yuxuan Liu, Peter Railton, Lu Wang

COLM 2026 [paper]

LiveOIBench: Can Large Language Models Outperform Human Contestants in Informatics Olympiads?

- Implemented self-debugging baselines.

Kaijian Zou, Aaron Xiong, Yunxiang Zhang, Xinliang Frederick Zhang, Yueqi Ren, Jirong Yang, Ayoung Lee, Shitanshu Bhushan, Lu Wang

ICML 2026 [paper]

Logit Arithmetic Elicits Long Reasoning Capabilities Without Training

- Ran supervised fine-tuning experiments, with and without LoRA, for distillation baselines.

Yunxiang Zhang, Muhammad Khalifa, Lechen Zhang, Xin Liu, Ayoung Lee, Xinliang Frederick Zhang, Farima Fatahi Bayat, Lu Wang

Findings of ACL 2026 [paper]

CLASH: Evaluating Language Models on Judging High-Stakes Dilemmas from Multiple Perspectives

- Assessed the ability of language models to respond to dilemmas based on character descriptions as perspectives.
- Analyzed reasoning chains and identified new failure modes in the value-understanding domain.
- Converted a non-verifiable dilemma task into a verifiable format.

Ayoung Lee, Ryan Sungmo Kwon, Peter Railton, Lu Wang

ICLR 2026 [paper]

On Consistency Training for Language-Based Image Editing Interface

- Generated training dataset using stable diffusion and YOLOv7 to enforce greater consistency in object-level image edits.

Younghwon Lee, Ayoung Lee*, Yeonjoon Jung, Seung-won Hwang (* denotes equal contribution)*

IJCNLP-AACL 2023, Second Workshop on Natural Language Interfaces (Oral) [paper] [code]

HONORS AND AWARDS

Best Presentation Award, NLP @ Michigan Day	Mar 2025
Kwanjeong Educational Foundation Scholarship	Aug 2024 - Present
Outstanding Student Commendation from the Alumni Association	Feb 2024
Excellent Bachelor's Thesis Presentation Award	Feb 2024
SNU Tomorrow's Engineers Membership	Mar 2022 - Aug 2022
Outstanding Tutor Award	Aug 2021
Presidential Science Scholarship	Mar 2020 - Feb 2024
Winter School of the Korean Physics Olympiad	Jan 2018 - Jan 2018

WORK EXPERIENCE

Proximal <i>Research Intern (Host: Justus Mattern)</i> • Working on rubric- and test-case-based methods to improve coding agents	May 2026 - Present <i>San Francisco, United States</i>
NAVER Cloud HealthCare AI <i>Research Intern</i> • Contributed to the curation of an EMR note retrieval dataset using entity linking algorithms	Mar 2024 - Jun 2024 <i>Seongnam, South Korea</i>
Language and Data Intelligence Lab <i>Undergraduate Research Intern (Advisor: Prof. Seung-won Hwang)</i> • Participated in improving language-based image editing interface using cycle consistency • Published in the IJCNLP-AAACL workshop as a co-first author	Mar 2023 - Feb 2024 <i>Seoul, South Korea</i>
DeepMetrics <i>Machine Learning Engineering Intern (Advisor: Prof. Hyun Oh Song)</i> • Participated in medical data preprocessing & developed algorithms for autonomous ventilator manipulation	Jun 2022 - Jan 2023 <i>Seoul, South Korea</i>
Samsung Device Solutions Memory <i>Software Intern</i> • Participated in semiconductor wafer anomaly detection using machine learning algorithms	Jul 2021 - Aug 2021 <i>Hwaseong, South Korea</i>

TALKS

Injecting Math Reasoning Abilities in Language Models <i>@ Deepest, Seoul National University</i>	Jun 2024
Study Abroad Presentation for Students <i>@ Seoul Science High School</i>	May 2024

TEACHING

(M1522.000700) Logic Design, Seoul National University <i>Teaching Assistant (Instructor: Jihong Kim)</i>	Sep 2021 - Dec 2021 <i>Seoul, South Korea</i>
(034.005) Foundation of Physics 1, Seoul National University <i>Peer Tutor</i>	Mar 2021 - Aug 2021 <i>Seoul, South Korea</i>
(M1522.000700) Logic Design, Seoul National University <i>Tutor</i>	Mar 2021 - Aug 2021 <i>Seoul, South Korea</i>

SKILLS

Programming

Python, Java (proficient), C, C++, TypeScript (intermediate),
PyTorch (proficient), React, Next.js, Django, Tensorflow (intermediate),
Git (proficient)

Communication

Korean (native), English (fluent, TOEFL 115/120 with R 29 L 30 W 27 S 29)