Ann Arbor, MI
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Ayoung Lee

Website:
aylee2008.github.io

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

Work Experience

NAVER Cloud HealthCare AI **Mar 2024 - Jun 2024**
Research Intern *Seongnam, South Korea*
- Contributed to the curation of an EMR note retrieval dataset using entity linking algorithms

Language and Data Intelligence Lab **Mar 2023 - Feb 2024**
Undergraduate Research Intern (Advisor: Prof. Seung-won Hwang) *Seoul, South Korea*
- Participated in improving language-based image editing interface using cycle consistency
- Published in the IJCNLP-AACL workshop as a co-first author

DeepMetrics **Jun 2022 - Jan 2023**
Machine Learning Engineering Intern (Advisor: Prof. Hyun Oh Song) *Seoul, South Korea*
- Participated in medical data preprocessing & developed algorithms for autonomous ventilator manipulation

Samsung Device Solutions Memory **Jul 2021 - Aug 2021**
Software Intern *Hwaseong, South Korea*
- Participated in semiconductor wafer anomaly detection using machine learning algorithms

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**
Honor Society of Seoul National University College of Engineering

Outstanding Tutor Award **Aug 2021**
Award bestowed upon tutors demonstrating outstanding achievements and exemplary dedication in the peer tutoring program

Presidential Science Scholarship **Mar 2020 - Feb 2024**
Full tuition plus living expenses support for undergraduate students majoring in science and technology

Volunteer Service Silver Certificate **Dec 2019**
Certificate awarded for over 500 hours of volunteer service

Winter School of the Korean Physics Olympiad **Jan 2018 - Jan 2018**
Program for International Physics Olympiad (IPhO) candidates sponsored by the Korean Physical Society

Projects

WaffleStudio Toy Project **Dec 2022 - Feb 2023**
Web & App Development Project hosted by Seoul National University
- Developed a sharable calendar web service using Next.js and Django
- Secured the third position among all the competing participants
- frontend, backend

K-Startup Maker Project **Jul 2020 - Dec 2020**
Maker Project hosted by the Korean Government
- Awarded 5,000$ in funding
- Developed a software for "Sensorless Robot Navigation via External Camera Monitoring" as vision team leader
- Used U-Net for driving area detection and DOPE (Deep Object Pose Estimation) for robot position detection
- code

International Student Car Competition 2020 **Apr 2020 - Aug 2020**
Electric Car Competition for Students at an International Level, Autonomous Car Category
- Developed a comprehensive autonomous driving structure
- Implemented real-time parking lot detection by modifying YOLOv3's structure and loss function and accurate lane detection using LaneNet
- code

Publications

CLASH: Evaluating Language Models on Judging High-Stakes Dilemmas from Multiple Perspectives
Ayoung Lee, Ryan Sungmo Kwon, Peter Railton, Lu Wang
Preprint [paper]

On Consistency Training for Language-Based Image Editing Interface
Youngwon Lee, Ayoung Lee*, Yeonjoon Jung, Seung-won Hwang (* denotes equal contribution)*
IJCNLP-AACL 2023, Second Workshop on Natural Language Interfaces (Oral) [paper] [code]

Talks

Injecting Math Reasoning Abilities in Language Models **Jun 2024**
@ Deepest, Seoul National University

Study Abroad Presentation for Students **May 2024**
@ Seoul Science High School

Teaching

(M1522.000700) Logic Design, Seoul National University **Sep 2021 - Dec 2021**
Teaching Assistant (Instructor: Jihong Kim) *Seoul, South Korea*

(034.005) Foundation of Physics 1, Seoul National University **Mar 2021 - Aug 2021**
Peer Tutor *Seoul, South Korea*
(M1522.000700) Logic Design, Seoul National University **Mar 2021 - Aug 2021**
Tutor *Seoul, South Korea*

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)