

Minju Hong

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RESEARCH INTERESTS

Deep Learning Theory : Large Language Models, Graph Neural Networks

My interests lie in the intersection of mathematics and data sciences. I am interested in deep learning theory, recently understanding the working mechanisms of large language models. I am also interested in applications of graphs, such as GNNs.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) M.S. in Electrical Engineering Advisor: Hyewon Chung GPA of 3.70/4.3	<i>Mar. 2024 - Present</i> Daejeon, Korea
Korea Advanced Institute of Science and Technology (KAIST) B.S. in Mathematical Sciences & Electrical Engineering (Double Major)	<i>Mar. 2019 - Feb. 2024</i> Daejeon, Korea
Technical University of Munich Exchange Student in Mathematics Selected Courses: CIT4230004 Statistical Foundations of Learning, MA4502 Combinatorial Optimization	<i>Apr. 2023 - Sep. 2023</i> Munich, Germany

PUBLICATIONS

(P: Preprint, C: Conference&Journal, W: Workshop&Demos, *: Equal contribution, †: Equal senior role)

[C1] [To be added](#)
Minju Hong
Arxiv Preprint.

RESEARCH EXPERIENCE

KAIST Inference and Information for Data Science Lab <i>Graduate Student</i> , Advised by Dr. Hyewon Chung. Research on explaining the order sensitivity of in-context learning in large language models. (Co-advised by Dr. Chulhee Yun)	<i>Mar. 2024 - Present</i> Daejeon, Korea
TUM Theoretical Foundations of Artificial Intelligence Group <i>Undergraduate Researcher</i> , Advised by Dr. Debarghya Ghoshdastidar. Research on misinformation mitigation and successful blocker selection algorithms.	<i>Apr. 2023 - Sep. 2023</i> Munich, Germany
MAS467 Introduction to Mathematical Biology <i>Course Term Project</i> , Advised by Dr. Jaekyung Kim. Shedding Light on Combined Multiple Transcriptional Repression Mechanisms with Cell Cycle Dynamics.	<i>Sep. 2023 - Dec. 2023</i> Daejeon, Korea
KAIST Inference and Information for Data Science Lab <i>Undergraduate Researcher</i> , Advised by Dr. Hyewon Chung. Research on random graph matching algorithms.	<i>Mar. 2021 - Dec. 2022</i> Daejeon, Korea

HONORS AND AWARDS

Doo-Myeong Undergraduate Scholarship Awarded to one student from the Department of Mathematics, Class of 2023 A merit-based scholarship granted by the Miwon Group.	<i>Spring 2020</i>
National Science and Engineering Undergraduate Scholarship Merit-based scholarship awarded by Korea Student Aid Foundation.	<i>Spring 2019</i>

Leadership Mileage Certificate, KAIST

2019

Honor for top 3% among 3,600+ students with top achievements in leadership activities including volunteering and campus activities.

TEACHING EXPERIENCE

Probability and Probabilistic Processes (EE210)

Spring 2025

Teaching Assistant at KAIST (Instructor: Dr. Hyewon Chung)

SERVICES

Academic Services

- Reviewer: -

Outreach and Leadership

- **Student Representative Committee of the School of Electrical Engineering** Aug. 2024 - Feb. 2025
Organized talks and social events for 400+ members in the KAIST EE graduate community.
- **Student Council Representative of the Department of Mathematical Sciences** Mar 2021 - Feb. 2023
Designed and managed open labs and mentoring sessions for 100+ KAIST Mathematical Sciences undergraduates.

INVITED TALKS

To be added

SKILLS

Languages: English (*Highly proficient*), Korean (*Native*)
TOEFL 117/120 (R30/L30/S30/W27)

Programming Languages: Python, MATLAB

EXTRACURRICULAR ACTIVITIES

Concertmaster in KAIST Orchestra

Jan. 2020 - Dec. 2021

Led the 80+ orchestra members in enhancing its musicality, designing and managing the chamber music program and relay-playing challenge event during Covid.

KAIST International Challengers for the Integration of Science, Technology, and Society

Sep. 2019 - Feb. 2021

Planned and executed social events and KAIST Open tournament as an event committee chair.

KAIST World-Friends ICT Volunteers Tanzania

Jul. 2019 - Aug. 2019

Organized workshops on ICT technology at universities and high schools, and mentored students at Arusha, Tanzania.

REFERENCES

Hyewon Chung, Associate Professor at KAIST

✉ Email: hwchung@kaist.ac.kr

Chulhee Yun, Assistant Professor at KAIST

✉ Email: chulhee.yun@kaist.ac.kr