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EDUCATION

ETH Zurich

Doctor of Science

May. 2025 - Present

- Major: Medical AI
- Advisor: [Michael Moor](#)

Korea University

Master of Science

Sep. 2023 - Feb. 2025
Early Completion

- Major: Computer Science and Engineering
- GPA: 4.44/4.5 (Merit-based Scholarship)
- Advisor: [Jaewoo Kang](#)

Korea University

Bachelor of Science, Bachelor of Engineering

Mar. 2016 - Aug. 2023

- Double Major: Health and Environmental Science, Artificial Intelligence
- Minor: Computer Science and Engineering
- GPA: 4.0/4.5

PUBLICATIONS

[8] Med-PRM: Medical Reasoning Models with Stepwise, Guideline-verified Process Rewards

Jaehoon Yun*, [Jiwoong Sohn](#)*, Jungwoo Park*, Hyunjae Kim, Xiangru Tang, Yanjun Shao, Yonghoe Koo, Minhyeok Ko, Qingyu Chen, Mark Gerstein, Michael Moor, Jaewoo Kang
[EMNLP 2025, Main Track](#)

[7] DMIS Lab at MedHopQA-2025: Ensemble Multi-Retrieval Methodologies with Reasoning Language Model Decision

Jongmyung Jung*, Hyeongsoon Hwang*, Yein Park*, Minju Song, Jaehoon Yoon, Hyeon Hwang, Sanghoon Lee, [Jiwoong Sohn](#), Jaewoo Kang
[IJCAI 2025, Biocreative IX](#)

[6] DMIS Lab at ArchEHR-QA 2025: Evidence-Grounded Answer Generation for EHR-based QA via a Multi-Agent Framework

Hyeon Hwang*, Hyeongsoon Hwang*, Jongmyung Jung, Jaehoon Yun, Minju Song, Yein Park, Dain Kim, Taewhoo Lee, [Jiwoong Sohn](#), Chanwoong Yoon, Sihyeon Park, Jiwoo Lee, Heechul Yang, Jaewoo Kang
[ACL 2025, BioNLP](#)

[5] MedAgentsBench: Benchmarking Thinking Models and Agent Frameworks for Complex Medical Reasoning

Xiangru Tang*, Daniel Shao*, [Jiwoong Sohn](#)*, Jiapeng Chen, Jiayi Zhang, Jinyu Xiang, Fang Wu, Yilun Zhao, Chenglin Wu, Wenqi Shi, Arman Cohan, Mark Gerstein
[arXiv:2503.07459 \(2025\)](#)

[4] Rationale-Guided Retrieval Augmented Generation for Medical Question Answering

[Jiwoong Sohn](#), Yein Park, Chanwoong Yoon, Sihyun Park, Mujeen Sung, Hyunjae Kim, Jaewoo Kang
[NAACL 2025, Main Track](#) (Oral)

[3] Small Language Models Learn Enhanced Reasoning Skills from Medical Textbooks

Hyunjae Kim, Hyeon Hwang, Jiwoo Lee, Sihyeon Park, Dain Kim, Taewhoo Lee, Chanwoong Yoon, [Jiwoong Sohn](#), Donghee Cho, Jaewoo Kang
[NPJ Digital Medicine](#)

[2] Improving Medical Reasoning through Retrieval and Self-Reflection with Retrieval-Augmented Large Language Models

Minbyul Jeong, [Jiwoong Sohn](#), Mujeen Sung, Jaewoo Kang
[ISMB 2024](#), [Bioinformatics 2024](#) (Oral)

[1] KU AIGEN ICL EDI@BC8 Track 3: Advancing Phenotype Named Entity Recognition and Normalization for Dysmorphology Physical Examination Reports

Hajung Kim, Chanhwi Kim, [Jiwoong Sohn](#), Tim Beck, Marek Rei, Sunkyu Kim, T. Ian Simpson, Joram M. Posma, Antoine Lain, Mujeen Sung, Jaewoo Kang
[AMIA 2023](#), [BioCreative VIII](#)

INVITED TALKS

[6th SFCNS Congress 2025](#) | Swiss Federation of Clinical Neuro-Societies

Oct. 2025

Invited Talk

[Krauthammer Lab](#) | University of Zurich & University Hospital Zurich

Jul. 2025

Invited Talk

RESEARCH EXPERIENCE

ETH Zurich, ETH AI Center | Medical AI Lab [↗](#)

May. 2025 - Present

Doctoral Researcher (Advisor: [Prof. Dr. Michael Moor](#))

Yale University | Gerstein Lab [↗](#)

Aug. 2024 - Apr. 2025

Research Assistant (Advisor: [Mark Gerstein](#), Mentor: [Xiangru Tang](#))

Yale University | Qingyu Chen's Lab [↗](#)

Dec. 2024 - Apr. 2025

Research Assistant (Advisor: [Qingyu Chen](#), Mentor: [Hyunjae Kim](#))

Korea University | Data Mining and Information Systems Laboratory [↗](#)

Mar. 2023 - Apr. 2025

Research Assistant (Advisor: [Jaewoo Kang](#))

HONORS AND AWARDS

[\[IJCAI 2025 BioCreative IX Track 1\]](#) MedHopQA

Aug 2025

1st Prize

Integrated Bachelor's and Master's Scholarship (50% Tuition)

Sep. 2023 - Feb. 2025

Awarded based on GPA of 4.0 or above in both Bachelor's and Master's degrees

Early Completion

Sep. 2023 - Feb. 2025

Awarded based on GPA of 4.0 or above in both Bachelor's and Master's degrees

[\[ACL 2024 BioNLP Workshop\]](#) Shared Task on Clinical Text generation

May 2024

Top Performing Teams

[LG Electronics] iPBL Competition

Feb. 2024

2nd Prize, 5,000 USD (Monetary Award and Prize)

[\[AMIA 2023 Biocreative VIII Track 3\]](#) Genetic Phenotype Extraction and Normalization from Dysmorphology Physical Examination Entries

Sep. 2023

3rd Prize

Semester High Honors

Fall 2020, Fall 2019

SDGs Innovation Arduino-based Technology Competition

Dec. 2020

2nd Prize

TEACHING EXPERIENCE

Multimodal Medical AI (262-0201-00L)

Fall 2025

Teaching Assistant

SW Programming Basics (GECT002)

Spring 2024

Teaching Assistant

Machine Learning (COSE362)

Fall 2023

Teaching Assistant

Advanced Data Science for Finance (DFE620)

Fall 2023

Teaching Assistant

Python Programming for Everybody (COSE156)

Fall 2020

Teaching Assistant

Private Academies and Tutoring

2016 - 2023

Math Instructor

Physics Instructor

Chemistry Instructor

TECHNICAL SKILLS

Programming: Python, C, Matlab, Verilog

Toolkits: PyTorch, Hugging Face, VLLM, Unsloth, Scikit-Learn, NumPy, Pandas, Faiss, Milvus

Other: \LaTeX , Blender, Arduino

Certificates:

- Certification of Advanced Data Analytics Semi-Professional (2022)
- AI Certificate for Everyone (AICE) - Associate (2022)

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Korea University | Buddy Assistants (KUBA)

Aug. 2022 - Dec. 2023

Group Leader

KT | AIVLE School AI Developer Track

Jul. 2022 - Jan. 2023

Korea University | Korea University Rowing Team

Jul. 2020 - Jan. 2021

Korea University | Disease Study Society

Mar. 2019 - Dec. 2019

Treasurer, Academic Member

Republic of Korea Air Force | Compulsory Military Service

Apr. 2017 - Apr. 2019

Honorary Discharge as Staff Sergeant

ACADEMIC SERVICE

ACL 2025 SRW

- Reviewer

LANGUAGE

Korean (Native)

English (C2)

- TOEFL: 115 (MyBest®)
- TOEIC: 985
- TOEIC Speaking: 200

German (A1)