

MINGYU KIM

✉ kimmin01@yonsei.ac.kr 📠 Kimmin-01 📄 Mingyu Kim
Graduate Student @ Yonsei University

EDUCATION

Yonsei University, Korea

B.S. in the Department of Applied Statistics

Mar. 2020 – Feb. 2025

- GPA: 4.25/4.3 (Overall), 4.27/4.3 (Major) (graduated with highest honor)

RESEARCH INTERESTS

Diffusion Large Language Models

Representation Learning in DLLMs

Causal Machine Learning

Pre-trained PFNs for Causal Effect Estimation

Mechanistic Interpretability

Conformal Inference in LLMs

EXPERIENCE

Statistical Consultation Researcher

Aug. 2025 – Feb. 2026

Institute of Data Science, Dept. of Statistics and Data Science, Yonsei Univ.

- Counselee's Major: New Testament, Environmental Finance, etc.

Undergraduate Research Assistant - Advisor: Kyungwoo Song

Jul. 2024 – Feb. 2025

Machine Learning and Artificial Intelligence Lab, Dept. of Statistics and Data Science, Yonsei Univ.

- Paper Reviewed about LLM Reasoning, Causal Inference, and Sharpness Aware Minimization

PUBLICATIONS & PREPRINTS

Peer-Reviewed Papers

- [1] Gyeongdeok Seo, Jaeyoon Shim, Mingyu Kim, Hoyoon Byun, Yonghan Jung*, Kyungwoo Song*, **Dissecting Causal Mechanism Shifts vis FANS: Function And Noise Separation**, Proceedings of the 43rd International Conference on Machine Learning, 2026.
- [2] Gyeongdeok Seo*, Hyejin Joo*, Kyungwoo Song, Mingyu Kim, Eunju Jang, Eusuk Kim, Jaehoon Ko, Jinseo Lee, Joonyoung Song, Junwon Seo, Junyong Choi, Kitae Kwon, Seungsoo Lee, Wanbeom Park, Wonsuk Choi, Yaejee Baek, Yongkyun Kim, Hyewon Jeong, Jaehun Jung, Jacob Lee, **Static and Dynamic Scoring Systems for Post-acute Sequelae of SARS-CoV-2 in a Korean Cohort**, International journal of infectious diseases (IJID), 2026.

* denotes equal contribution.

TEACHING ASSISTANT

Deep Learning (STA3140) - Professor : Jaewoo Park

Student Tutor, Yonsei University

Mar. 2024 – Jul. 2024

SW Programming (YCS1002) - Professor : Jaekyung Kim

Course Tutor, Yonsei University

Sep. 2021 – Dec. 2021

AWARDS & SCHOLARSHIPS

Guwon Scholarship

Awarded 2 out of 300+ department students, Living expenses support

Mar. 2024 – Feb. 2025

Mar. 2022 – Aug. 2022

Academic Award, Yonsei University

Top 1% out of 120+ students

PROJECT

Estimation and Quantification of long COVID in Korean Cohort <i>funded by Ministry of Food and Drug Safety, Korea</i>	<i>Mar. 2025 – Jan. 2026</i>
English-specified Educational Chatbot Development under CEFR <i>funded by Edutem Inc., Korea</i>	<i>Apr. 2025 - Jun. 2025</i>
Mitigation of Translationese between English-Korean with Synthetic Data <i>YAICON 6th Project (1st Prize)</i>	<i>Mar. 2025 - Jun. 2025</i>
Detecting Unfair Judging in Figure Skating via Causal Detection and Time-Series Analysis <i>DSL EDA Project</i> [Video] 🔗	<i>Jan. 2025 - Feb. 2025</i>
Multi-Stage Transfer Learning Approach for Personality Classification using MLM <i>YAICON 5th Project</i>	<i>Oct. 2024 - Dec. 2024</i>
Development of Dog-Length Estimation Framework with 3D Depth Estimation <i>funded by Petnow Inc., Korea</i>	<i>Sep. 2024 - Dec. 2024</i>
Missing Children Aging Prediction via FADING & GOAE <i>DSL Modeling Project</i> [Code] 🔗 [Video] 🔗	<i>Aug. 2024 - Sep. 2024</i>
Foundation Proposal for Midnight Bus Route in Seoul <i>DSL EDA Project</i> [Video] 🔗	<i>Jul. 2024 - Aug. 2024</i>
Solving Trolley Problem via Reinforcement Learning <i>STA3145(Reinforcement Learning) Course Project</i>	<i>May. 2024 - Jun. 2024</i>
Derivation of Dangerous Areas for Children Car Accident in Osan City <i>funded by COMPAS and Osan City, Korea</i>	<i>Dec. 2020 – Jan. 2021</i>

EXTRACURRICULAR ACTIVITIES

Yonsei Artificial Intelligence 14th Member ◦ Paper Reading and YAICON (AI Project Hackathon)	<i>Jul. 2024 – Jun. 2025</i>
Yonsei Data Science Lab 12th Member and Head of Academic Team ◦ Data Science Sessions, Paper Reading, and EDA / Modeling / Industrial Project	<i>Jul. 2024 – May. 2025</i>

CERTIFICATIONS

Advanced Data Analytics Semi-Professional (ADsP)	<i>Aug. 2021</i>
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SKILLS

Computer Languages <i>R (Expert), Python and DL Libraries (Expert), Java (Intermediate)</i>
Languages <i>Korean (Native), English (Fluent), Japanese (Middle)</i>
Hobbies <i>Watching Baseball, Listening Music</i>

ADDITIONAL INFORMATION

Military Service <i>Served and Discharged as Sergeant</i>	<i>Aug. 2022 – Feb. 2024</i>
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