

Jooho Kim

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Education

Seoul National University <i>MS in Statistics</i>	Seoul, South Korea Mar. 2024 – Feb. 2026
Korea University <i>BE in Food and Resource Economics, Double major in Statistics</i> <i>Military Service, 2020 – 2021</i>	Seoul, South Korea Mar. 2018 – Feb. 2024
The University of Texas at Austin <i>Exchange Program, Economics</i>	Texas, United States Aug. 2022 – Dec. 2022

Research Interests

Missing Data, Survival Analysis, Causal Inference, Uncertainty Quantification

Preprints

Kim, J. and Shin, Y. E. (2025). “Scalable and Efficient Multiple Imputation for Case-Cohort Studies via Influence Function-Based Supersampling.” arXiv:2511.14692. [\[paper\]](#) [\[software\]](#)
Korean Statistical Society Graduate Student Paper Award (Winter Conference, 2025).

Research Experience

Prediction Model Lab, Seoul National University <i>Graduate Researcher (Advisor: Dr. Yei Eun Shin)</i>	Seoul, South Korea Jun. 2024 – Present
<ul style="list-style-type: none">○ Led as the primary graduate researcher on a project funded by the National Research Foundation of Korea: “<i>Multiple Imputation for Missing Covariates due to Epidemiological Sampling Designs</i>”.○ Proposed an influence function-based supersampling approach that imputes only a subset (e.g., 3%) of the missing covariates while preserving efficiency and unbiasedness.○ Devised weight calibration equations that integrate distinct sampling designs for a unified analysis.○ Applied the proposed method to the NIH–AARP Diet and Health Study to assess expensive biomarkers associated with pancreatic cancer risk using the Cox proportional hazards model.	Austin, United States Oct. 2022 – Dec. 2022

Urban Informatics Lab, The University of Texas at Austin

Undergraduate Research Assistant (Connected through Dr. Arya Farahi)

Austin, United States

Oct. 2022 – Dec. 2022

- Aggregated and cleaned geotagged electric vehicle (EV)-related tweets across the U.S. using regular expressions and bot probability scores.
- Conducted hotspot analysis to identify regions with significant EV-related public sentiment.

Contributed Presentations

Scalable and Efficient Multiple Imputation for Case-Cohort Studies via Influence Function-Based Supersampling Korean Statistical Society, Seoul, Korea.	Dec. 2025
Multiple Imputation for Incomplete Survival Data with Missing Covariates: Toward Valid Causal Inference The 2nd Symposium on Causal Inference, Seoul, Korea (English).	Jun. 2025

Honors and Awards

Graduate Student Paper Award	Dec. 2025
<i>Awarded by the Korean Statistical Society (KSS) for a graduate student paper presentation.</i>	
Fellowship for Fundamental Academic Fields	May 2024; Feb. 2025
<i>Awarded by Seoul National University for academic excellence and research potential.</i>	
Graduate Research Fellowship in Science and Engineering	Sep. 2024 – Aug. 2025
<i>Awarded by the National Research Foundation of Korea through a competitive selection process.</i>	
Special Scholarship	Sep. 2022; Mar. 2023
<i>Awarded by Korea University for academic excellence.</i>	
Semester High Honors	Sep. 2018; Mar. 2022; Mar. 2023
<i>Recognized by Korea University for academic excellence.</i>	
Agricultural Economics Alumni Scholarship	Mar. 2022
<i>Awarded by Korea University, Department of Food and Resource Economics for academic excellence.</i>	

Teaching Assistantship

Survival Data Analysis and Lab	Fall 2025
<i>Advanced Undergraduate Course</i>	
○ Led hands-on lab sessions on survival analysis and graded assignments and exams.	
Selected Topics Seminar	Spring 2025
<i>Introductory Undergraduate Course</i>	
○ Organized weekly discussion sessions and advised on data analysis projects.	
Mathematical Statistics 2	Fall 2024
<i>Core Undergraduate Course</i>	
○ Held office hours, graded assignments and exams, and prepared solution sets.	
Statistics Lab	Spring 2024
<i>Introductory Undergraduate Course</i>	
○ Evaluated Python programming assignments and exams and held office hours.	

Employment

Hankuk University of Foreign Studies – Insight Camp	Jan. 2019 – Feb. 2019
<i>Academic Mentor</i>	
○ Provided residential academic mentoring and taught math and English classes in a 4-week program.	

- Created problem-solving exercises and offered individualized tutoring.

Projects

Survey Design and Analysis for the SNU Panel of Youth (SNUPY)	Oct. 2024; Dec. 2025
○ Constructed stratified cross-sectional and longitudinal sampling weights using the R <code>survey</code> package.	
○ Advised on missing data imputation and weight calibration.	
Modeling Risk Factors for Mortality and Hospitalization	Sep. 2025
○ Analyzed clinical risk factors for mortality and hospital stay using GLMM and multiple imputation, addressing repeated events and missing data.	
Bitcoin Chart Pattern Image Recognition and Price Prediction	May 2022 – Jul. 2022
<i>GitHub Repository</i>	
○ Implemented Monte Carlo Dropout in the N-BEATS time-series neural network to quantify and visualize predictive uncertainty.	

- Augmented chart image data using probability distributions, resulting in a 10% increase in accuracy.

Optimizing Pricing Strategies for a Low-Demand Food Product May 2022 – Jun. 2022

- Designed an online survey and conducted a conjoint analysis to identify consumer preferences.
- Developed a Python algorithm to estimate the profit-maximizing bundle price for the food product.

Data Visualization of Job Openings in Korea Nov. 2021 – Jan. 2022

[GitHub Repository](#) (In Korean)

- Extracted and preprocessed 36,000 job postings and 11,000 resumes by identifying HTML patterns.

Skills & Languages

Software R, Python, LaTeX, SAS, ArcGIS, Stata, SPSS

Languages Fluent in both English and Korean