

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>	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, Statistical Uncertainty Quantification in AI

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. [\[paper\]](#) [\[software\]](#)

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 Cohort Sampling Designs</i>”.○ Proposed an influence function-based supersampling approach to impute only a subset (e.g., 3%) of the missing covariates while preserving efficiency and unbiasedness.○ Devised weight calibration equations that reconcile heterogeneous sampling weights for a unified Cox regression 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

Presentation

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

Honors and Awards

Fellowship for Fundamental Academic Fields Awarded by Seoul National University for academic excellence and research potential	2024, 2025
Graduate Research Fellowship in Science and Engineering Awarded by the National Research Foundation of Korea through a competitive selection process	2024 – 2025

Special Scholarship <i>Awarded by Korea University for academic excellence</i>	Fall 2022, Spring 2023
Semester High Honors <i>Recognized by Korea University for academic excellence</i>	Fall 2018, Spring 2022, Spring 2023
Agricultural Economics Alumni Scholarship <i>Awarded by Korea University, Department of Food and Resource Economics for academic excellence</i>	Spring 2022

Teaching Assistantship

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

Employment

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

Projects

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.	
Weight Design Project for the Longitudinal Survey Panel	Oct. 2024
○ Constructed stratified sampling weights using the R <code>survey</code> package and advised on missing data handling in the SNU student survey.	
Bitcoin Chart Pattern Image Recognition and Price Prediction Project GitHub Repository	May 2022 – Jul. 2022
○ 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 GitHub Repository (In Korean)	Nov. 2021 – Jan. 2022
○ 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