

# Jooho Kim

jooho991122 (at) gmail (dot) com [Personal Website](#) [GitHub](#)

## Education

<b>Seoul National University</b> <i>MS in Statistics</i>	Seoul, South Korea Mar. 2024 – Feb. 2026
<b>Korea University</b> <i>BE in Food and Resource Economics, Double major in Statistics</i>	Seoul, South Korea Mar. 2018 – Feb. 2024
<b>The University of Texas at Austin</b> <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

<b>Prediction Model Lab, Seoul National University</b> <i>Graduate Researcher (Advisor: Dr. Yei Eun Shin)</i>	Seoul, South Korea Jun. 2024 – Present
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<b>Urban Informatics Lab, The University of Texas at Austin</b>	Austin, United States
<i>Undergraduate Research Assistant (Connected through Dr. Arya Farahi)</i>	Oct. 2022 – Dec. 2022

## Presentation

Scalable and Efficient Multiple Imputation for Case-Cohort Studies via  
Influence Function-Based Supersampling Dec. 2025  
Korean Statistical Society, Seoul, Korea (Oral Presentation).

**Multiple Imputation for Incomplete Survival Data with Missing Covariates: Toward Valid Causal Inference** Jun. 2025  
The 2nd Symposium on Causal Inference, Seoul, Korea (Oral Presentation, English).

### Honors and Awards

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

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

## Teaching Assistantship

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

## Projects

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<b>Modeling Risk Factors for Mortality and Hospitalization</b>	Sep. 2025
○ Analyzed clinical risk factors for mortality and hospital stay using GLMM and multiple imputation, addressing repeated events and missing data.	
<b>Weight Design Project for the Longitudinal Survey Panel</b>	Oct. 2024
○ Constructed stratified sampling weights using the R <code>survey</code> package and advised on missing data handling in the SNU student survey.	
<b>Bitcoin Chart Pattern Image Recognition and Price Prediction Project</b>	May 2022 – Jul. 2022
<a href="#">GitHub Repository</a>	
○ 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.	
<b>Optimizing Pricing Strategies for a Low-Demand Food Product</b>	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.	
<b>Data Visualization of Job Openings in Korea</b>	Nov. 2021 – Jan. 2022
<a href="#">GitHub Repository</a> (In Korean)	
○ Extracted and preprocessed 36,000 job postings and 11,000 resumes by identifying HTML patterns.	

## Skills & Languages

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<b>Software</b> R, Python, LaTeX, SAS, ArcGIS, Stata, SPSS
<b>Languages</b> Fluent in both English and Korean