

Sojin Kim

Mobile: +82) 010-5163-0031

E-mail: sojinkkk@ewha.ac.kr; sojineous@gmail.com

Education

Ph.D. in Statistics

Mar 2022 - Present

Ewha Womans University, Seoul, South Korea (Advisor: Jongwoo Song)

- Scholarship: Received scholarship for 1 semester (Spring 2022)
- Expected graduation in Feb 2025

Master of Science in Statistics

Mar 2020 – Feb 2022

Ewha Womans University, Seoul, South Korea (Advisor: Jongwoo Song)

Bachelor of Business Administration, Double Major in Statistics

Mar 2014 – Aug 2018

Ewha Womans University, Seoul, South Korea

Research Experience

Data Mining Research Lab in Ewha

Sep 2020 - Present

Graduate Research Assistant

Advisor: Jongwoo Song

- Developed an algorithm for Cost-Sensitive Learning for imbalanced data classification
- Developed a classification model for tabular data
- Applied machine learning methods and Monte Carlo methods in option price prediction
- Applied RNN for movie rate prediction using text data
- Applied Neural Network (TGNNet) for spatio-temporal data
- Participated in developing a semiparametric regression model for a survival analysis

Institute for Software Research | Carnegie Mellon University, Pittsburgh, U.S.

Aug 2022 - Feb 2023

Visiting Student

- Coursework: Introduction to Deep Learning, Large Scale Multimedia Analysis, Machine Learning and Game Theory, Natural Language Processing
- Developed a motion transfer algorithm using 3d mesh (Simplpix, Simplify-X)
- Developed an algorithm for de-blurring stereo images (DAVANet, DeblurNet)

Division of Media | Ewha Womans University, Seoul, South Korea

Apr 2023 - Feb 2024

Research Assistant

- Character classification in children's animation using object detection (Yolov8, Faster R-CNN)
- Object detection in Korean dramas (Yolov8)

Work Experience

Lotte Mart | Seoul, South Korea

Aug 2018 – Feb 2020

Associate, Big Data team

- Analyzed sales and customer data for marketing

Publications

Sojin Kim and Jongwoo Song. (In preparation). TabClassNet: A New Classification Method for Tabular Data Using Convolutional Neural Network

Sojin Kim and Jongwoo Song. (accepted). Analysis of Imbalanced Data using Cost-Sensitive Learning. Communications in Statistics - Theory and Methods.

Sojin Kim, Jimin Kim and Jongwoo Song. (2024). Option Pricing and Profitability: A Comprehensive Examination of Machine Learning, Black-Scholes, and Monte Carlo Method. Communications for Statistical Applications and Methods.

Seongjoo Song, Sulah Kwon, Siyoung Lee, **Sojin Kim** and Jongwoo Song. (submitted). Semiparametric regression model for survival data. Computational Statistics & Data Analysis.

Sojin Kim and Jongwoo Song. (2022). Semantic Analysis via Application of Deep Learning using Naver Movie Review Data. The Korean journal of applied statistics.

Additional Information

- Certificates: Big-Data Analysis Engineer, ADsP, Computer Specialist in Spreadsheet & Database Level-1
- Languages: Korean, English (TOEIC 945), Japanese (JLPT N3)