

KyungHee KIM

Statistics | Data Analyst

+ (82) 10-4127-4281 @ kkh97122647@gmail.com

SUNGKYUNKWAN UNIVERSITY Research Institute of Applied Statistics Da-san Economic Hall, 53, 32417 Myeongnyun-dong 3ga, Jongno-gu, Seoul

FORMATION

- 2021.02-Present **Research Institute of Applied Statistics, Sungkyunkwan University**, a statistical researcher.
- 2021.02-Present **A Master degree at Sungkyunkwan University**, Department of Statistics. GPA : 4.17/4.5
- 2016.02-2021.02 **Bachelor's Degree at Duksung Women's University**, Major in Statistics, GPA : 3.97/4.5 Minor in Computer Science, GPA : 4.3/4.5. GPA : 4.01/4.5 (94.1/100), *Magna Cum Laude*

RESEARCH

- Present**
April. 2022 | **Applying differential privacy to various data., SIMON WO PROF,**
> Differential privacy is applied to data in various forms such as images and time series.
Differential Privacy image time-series
- Present**
Jan. 2022 | **Outlier detection and Online learning for commercial drones(DJI)., NATIONAL SECURITY RESEARCH INSTITUTE, SIMON WO PROF,**
> We devise anomaly detection scenarios for small drones and develop and analyze (online) anomaly detection techniques.
Drone DJI PX4 Anomaly detection GPS anomaly
- May. 2022**
Dec. 2021 | **Outlier detection for multivariate long memory processes, CHANGRYONG BAEK PROF,**
> This paper studies the outlier detection method for multivariate long memory time series. We propose outlier detection methods based on the VHAR structure.
outlier detection multivariate long memory process VHAR robust regression
- Mar. 2022** | **Time series outlier detection and DTW clustering of the inflow and departure of Seoul Citizen Card users., RESEARCH INSTITUTE OF APPLIED STATISTICS,**
Cite:Kim Kyung-hee. (2022). Time Series Outliers Detection and DTW Clustering on the inflow and departure of Seoul Citizen Card users. The Statistical Review, 22(0), 63-76.
> Find clusters according to user types and analyzed based on different outliers results at the time of the event.
Seoul Citizens Card ARMA Model Abnormal Detection DTW Clustering
- Jun. 2020** | **Analysis of Monthly Passport Issues in Korea with Seasonal ARIMA Model, UNDERGRADUATE,**
> Considered a seasonal ARIMA model to predict the amount of passport issues in the future.
Time series R

TEACHING AND MENTORING

- Apr. 2022.** | **AI | AI Basics and Utilization , SKKU,**
- Feb. 2022.** |
> Machine Learning, Deep Learning (linear regression, RNN, CNN, etc.)
> How to use colab (python)
python
- Jan. 2022.** | **Tutor of Statistical Programming winter lecture, RESEARCH INSTITUTE OF APPLIED STATISTICS,**
Basis of R and Big data analysis.
R
- Jul. 2021.** | **Tutor of Statistical Programming summer lecture, RESEARCH INSTITUTE OF APPLIED STATISTICS,**
Basis of R and Big data analysis.
R

Dec. 2018 | Tutor of Statistical Programming R, DUKSUNG WOMEN'S UNIVERSITY,
Assisted the contents of the R programming lecture.

R

HONORS AND AWARDS

- Aug. 25, 2021.** Top award in the Weather Big Data Contest. (Predict the occurrence of landslides).
 - > Hosted by Korea Forest Service. Minister of Environment Award.
 - > Predicting landslides in Gyeongsang Province.

- Nov. 27, 2020.** A gold prize in Creative Idea Contest in IT/Design Division.
 - > Hosted by Duksung Women's university.
 - > Suggestions to reduce resource consumption.

- Nov. 26, 2020.** Participation Award in College of Science and Technology Academic Conference.
 - > Hosted by Duksung Women's university.
 - > Suggestions for movie box office success factors.

- May 30, 2017.** Excellence Award in Smart life ICT Convergence Idea APP Contest.
 - > Hosted by Seoul, Seoul Business Agency.
 - > Suggestions for ideas and applications related to shared spaces of universities.