

Yujin Park

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Education

Ph.D. in Statistics

Mar 2020 – Aug 2024

Ewha Womans University, Seoul, South Korea (Advisor: Jae Keun Yoo)

- Scholarship: Received scholarship for 3 semesters (Spring 2020, Fall 2020, Spring 2023)
- Expected graduation in August 2024

B.S. in Health Education and Management/ Statistics

Mar 2017 – Feb 2020

Ewha Womans University, Seoul, South Korea

Research Experience

Dimension Reduction Research Group in Ewha

Sep 2020 - Aug 2024

Graduate Research Assistant

Advisor: Jae Keun Yoo

- Developed a mixed Sufficient Dimension Reduction Methods
- Studied on the utilization of unstructured economic data using noise filtering and Sufficient Dimension Reduction (by Bank of Korea)
- Conducted the statistical survey and evaluated for the 2021 Ewha core competence assessment

Transportation Systems Innovation Lab | University of Windsor, Windsor, Canada Jul 2022 - Jan 2023

Visiting Research Student

Advisor: Chris Lee

- Analyzed the driving trajectories and biometric signals of human drivers

Department of Pediatrics | Seoul National University Hospital, Seoul, South Korea Apr 2020 - Dec 2020

Research Assistant

PI: Jung Min Ko

- Investigated and collected information on medical records (registrants) for special cases diagnosed and registered by each medical institution
- Pre-processed the metadata of administrative data in 2019 and calculated basic statistics
- Established quality management strategies for each basic element of national approval statistics

Publications

Minjee Kim*, **Yujin Park***, Kyongwon Kim, and Jae Keun Yoo. (2025). Nonlinear functional sufficient dimension reduction via principal fitted components. *Statistics and Computing*. (*: Co-first Author)

Yujin Park, Kyongwon Kim, and Jae Keun Yoo. (2025). On sufficient dimension reduction methods based on a graphical model with non-concave penalty. *Statistics and Computing*.

Jae Keun Yoo*, **Yujin Park*** and Beomseok Seo. (2024). Using noise filtering and sufficient dimension reduction method on unstructured economic data. *The Korean Journal of Applied Statistics*. (*: Co-first Author)

Yujin Park, Kyongwon Kim, and Jae Keun Yoo. (2022). On cross-distance selection algorithm for hybrid sufficient dimension reduction. *Computational Statistics & Data Analysis*.

Yujin Park, Yoonhee Choi, Kyongwon Kim, and Jae Keun Yoo. (2022). Machine learning approach for study on subway passenger flow. *Scientific Reports*.

Extra Curricular Activities

Member

2017

HEWA('Happy Ewha Without Alcohol') club

- Supported by the Ministry of Health and Welfare and the Korea Public Health Association
- Aiming to achieve a healthy drinking culture on campus and develop rules and regulations which prevent alcohol-induced harm

Awards

Best Thesis Award (Ewha Womans University)

2024

Graduate Student Paper Presentation Paper Award (The Korean Statistical Society)

2023

Encouragement Award

Competition Award (NH Investment & Securities)

2021

Participation Award in customer clustering