

# Hyunsung Kim

PH.D. STUDENT IN STATISTICS

The Research Center for Data Science, 310 Centennial Hall, Chung-Ang University, Seoul, South Korea

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## Education

### Chung-Ang University

PH.D. STUDENT IN STATISTICS

- Advisor : Dr. Yaeji Lim

Seoul, South Korea

Mar. 2021 - Present

### Chung-Ang University

M.A. IN STATISTICS

- Advisor : Dr. Yaeji Lim
- Thesis : Bootstrap aggregated classification for sparse functional data.
- GPA : 4.40/4.50

Seoul, South Korea

Mar. 2019 - Feb. 2021

### Chung-Ang University

B.A. IN APPLIED STATISTICS

- GPA : 4.05/4.50 (Cum Laude)

Seoul, South Korea

Mar. 2013 - Feb. 2019

## Research Interests

- Functional data analysis
- High-dimensional data analysis

## Publications

1. **Kim, H.**, Lim, Y., & Park, Y. (2021+). Robust principal component analysis and its applications for partially observed functional data. *In preparation*.
2. **Kim, H.**, & Lim, Y. (2021+). Robust Principal component analysis for functional snippets. *In preparation*.
3. Park, E., **Kim, H.**, Lim, Y., Lee, W., & Lee, S. (2021+). Effect of chronic disease management led by small financial incentives to old patients on medication adherence and health outcome in busy primary care clinics in South Korea. *In preparation*. (**Co-first author**)
4. Park, J-Y., Choe, Y-J., Lim, Y., & **Kim, H.** (2021+) Association between the incidence of type 1 diabetes mellitus and tuberculosis or Bacillus Calmette-Guérin immunization in children and adolescents: data from the International Diabetes Federation and World Health Organization. *Submitted*.
5. **Kim, H.**, & Lim, Y. (2021+). Bootstrap aggregated classification for sparse functional data. *Journal of Applied Statistics*, In press.
6. **Kim, H.**, Li, X., & Lim, Y. (2021). Robust group independent component analysis. *The Korean Journal of Applied Statistics*, **34**(2), 135–147.

## Software Developments

### R PACKAGES

#### robfpca

ROBUST COVARIANCE ESTIMATION AND PRINCIPAL COMPONENT ANALYSIS FOR FUNCTIONAL SNIPPETS

<https://github.com/statKim/robfpca>

2021

#### rmd2report

RMARKDOWN TEMPLATE FOR REPORTS OR ASSIGNMENTS.

<https://github.com/statKim/rmd2report>

rmd2report

2021

## Presentation

### Bernoulli-IMS 10th World Congress in Probability and Statistics

Seoul, South Korea

PRESENTER FOR <ROBUST COVARIANCE ESTIMATION FOR PARTIALLY OBSERVED FUNCTIONAL DATA>

Jul. 2021

## Grants

### CAU Graduate Research Scholarship (Ph.D. course)

Seoul, South Korea

THE GRADUATE SCHOOL OF CHUNG-ANG UNIVERSITY

Mar. 2021 - Present

- Funding amount: Full-tuition

### CAU Graduate Research Scholarship (M.S. course)

Seoul, South Korea

THE GRADUATE SCHOOL OF CHUNG-ANG UNIVERSITY

Mar. 2019 - Feb. 2021

- Funding amount: Full-tuition

### Scholarship for Academic Excellence

Seoul, South Korea

CHUNG-ANG UNIVERSITY

Mar. 2014, Mar. 2018, Sep. 2018

- Funding amount: 65% tuition, Sep. 2018 (학년수석)
- Funding amount: 65% tuition, Mar. 2018 (학년수석)
- Funding amount: 35% tuition, Mar. 2014

### Scholarship for Human Resource Developments

Seoul, South Korea

NONGHYUP FOUNDATION

Mar. 2013 - Feb. 2019

- Funding amount: ₩ 24,000,000

## Honors & Awards

### Da Vinci SW Hackathon

Seoul, South Korea

DA VINCI SOFTWARE EDUCATION INSTITUTE, CHUNG-ANG UNIVERSITY

Nov. 2018

- 1st Place

## Projects

### 경기도 고혈압·당뇨병 등록관리사업 효과평가 분석

Seoul, Korea

경기도 공공보건의료지원단

Jul. 2019 - Feb. 2020

### 빅데이터 기반 서비스부품 수요예측 강화

Seoul, Korea

부품운영팀, 현대모비스

Feb. 2019 - Sep. 2019

## Teaching Experience

### TEACHING ASSISTANT

### Introduction to Statistical Learning

Seoul, South Korea

DEPARTMENT OF APPLIED STATISTICS, CHUNG-ANG UNIVERSITY

Sep. 2019 - Dec. 2019

## Computer Skills

**Programming** R, Python, C/C++, SQL, SAS, LaTeX  
**Version Control** Git