

# JINWOO CHO

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Website: <https://kevinjwcho.github.io>

## EDUCATION

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### University of Pittsburgh, PA, US

Ph.D. in Statistics (Adviser: Dr.Kehui Chen)

Aug 2020 - Present

### Sungkyunkwan University, Seoul, South Korea

Master of Science in Statistics (Adviser: Dr.Eun Ryung Lee)

Sep 2016 - Aug 2018

Bachelor of Economics, Statistics

Mar 2010 - Aug 2016

## TEACHING

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### Instructor

Summer 2022, 2023

*University of Pittsburgh*

- STAT 1000: Applied Statistical Methods. Introduction of Statistics for undergraduates (6 weeks).

### Teaching Assistant

*University of Pittsburgh*

- Fall 2023: STAT 2711(Probability Theory I), STAT 2261(Survival analysis), STAT 1341(Sports analytics)
- Spring 2023: STAT 2641(Asymptotic statistics), STAT 1100
- Fall 2022: STAT 1000(Applied Statistical Methods)
- Spring 2021: STAT 1100(Statistics and Probability for Business Management)
- Fall 2021: STAT 1201(Applied Nonparametric Statistics)

## EMPLOYMENT

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### Research Associate (Full Time)

Jul 2019 - Jul 2020

*Seoul National University College of Medicine*

- Worked in Dr.Yun-chul Hong's research institute.
- Managed EDC project and elderly cohort data.
- Analyzed microbiome, EWAS, GWAS, and time-series data.
- Forecasted medical workforce demand and supply.
- Developed healthcare system algorithms.

### Teaching and Research Assistant (Part time)

Jul 2017 - Jun 2019

*The Department of Information Statistics, Korean National Open University*

- A method of quality control using R.

### Model Developer (Part time)

May 2018 - Sep 2018

*Begas, Inc. Seoul, South Korea*

- Shinhan Investment Corporation project.
- Stock markets index prediction using functional data analysis and R.

### Research Assistant (Full time)

Sep 2017 - Aug 2018

*Research Institute of Applied Statistics, Sungkyunkwan University*

- Statistical consulting.
- R and SAS programming teaching.

### **Intern (Full time)**

Jan 2017 - Feb 2017

*SAS Korea*

- Text mining solution in a banking system.
- ALM(Asset Liability Management) solution for a banking system.

## **HONERS AND AWARDS**

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### **Andrew Mellon Predoctoral Fellowships**

Feb 2024

*The Dietrich School of Arts & Sciences, University of Pittsburgh*

- Awarded a one-year fellowship (2024-2025 academic year).

### **Arts and Sciences Fellowships**

Aug 2020

*The Dietrich School of Arts & Sciences, University of Pittsburgh*

- Awarded a one-year fellowship.

### **Graduate academic paper presentation award, 2nd place**

May 2018

*The Korean Statistical Society*

- Presentation : Penalized Local Linear Quantile Regression for Varying Coefficient Models.

### **SAS Student Ambassador**

Apr 2017/ Apr 2018

*SAS Global Forum*

*Orlando, FL / Denver, CO*

- Presentation : Construction of a Disease Network and a Prediction Model for Dementia Using Health Insurance Claim Data in Korea.
- Poster : Analysis of Profitability-Bank Systems in South Korea Using SAS Base.

### **The 14th SAS Analytics Championship in Korea, 2nd place**

Sep 2016

- Topic: Analyze and Construct a Network of Diseases in which Koreans are interested.

### **Academic Scholarship**

*Sungkyunkwan University*

- Simsan scholarship for graduate students Spring 2018, Fall 2017
- Academic excellence scholarship for undergraduate students Spring 2016, Fall 2015

## **PUBLICATIONS**

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- Choi, Y. J., **Cho, J.**, Hong, Y. C., . . . , Lim, Y. H. (2023). DNA methylation is associated with prenatal exposure to sulfur dioxide and childhood attention-deficit hyperactivity disorder symptoms. *Scientific Reports*, 13, 1, 3501.
- Lee, E. R., **Cho, J.**, & Park, S. (2022). Penalized kernel quantile regression for varying coefficient models. *Journal of Statistical Planning and Inference*, 217, 8-23.
- Lee, K. S., Kim, K. N., Ahn, Y. D., Choi, Y. J., **Cho, J.**, Jang, Y., ... & Hong, Y. C. (2021). Prenatal and postnatal exposures to four metals mixture and IQ in 6-year-old children: A prospective cohort study in South Korea. *Environment International*, 157, 106798.

- Lee, K. S., Choi, Y. J., **Cho, J.**, Lee, H., Lee, H., Park, S. J., ... & Hong, Y. C. (2021). Environmental and Genetic Risk Factors of Congenital Anomalies: an Umbrella Review of Systematic Reviews and Meta-Analyses. *Journal of Korean Medical Science*, 36(28).
- Lee, K. S., Kim, J. I., Choi, Y. J., **Cho, J.**, Lim, Y. H., Kim, B. N., ... & Hong, Y. C. (2021). Association Between Sleep Duration and Intelligence Quotient in 6-Year-Old Children. *International Journal of Behavioral Medicine*, 1-12.
- Choi, Y. J., Park, M. J., Park, S. J., Hong, D., Lee, S., Lee, K. S., **Cho, J.**, ... & Lee, J. K. (2021). Types of COVID-19 clusters and their relationship with social distancing in the Seoul metropolitan area, South Korea. *International Journal of Infectious Diseases*, 106, 363-369.
- Lee, K. S., Kim, B. N., **Cho, J.**, Jang, Y. Y., Choi, Y. J., Lee, W. S., ... & Hong, Y. C. (2021). Associations between surrounding residential greenness and intelligence quotient in 6-year-old children. *Science of the Total Environment*, 759, 143561.
- Lee, K. S., Choi, Y. J., **Cho, J. W.**, Moon, S. J., Lim, Y. H., Kim, J. I., ... & Hong, Y. C. (2021). Childrens Greenness Exposure and IQ-Associated DNA Methylation: A Prospective Cohort Study. *International journal of environmental research and public health*, 18(14), 7429.
- Choi, Y., Lee, K., Hong, Y., **Cho, J.** et al. (2020). Effect of prenatal bisphenol A exposure on child's obesity through epigenetic influence on insulin-like growth factor 2 receptor (IGF2R) gene. *Environment International*, 143, 105929
- Lee, E. R., **Cho, J.**, & Yu, K. (2019). A systematic review on model selection in high-dimensional regression. *Journal of the Korean Statistical Society*, 48(1), 1-12.
- **Cho, J.** et al. (2019). Robust Anomaly Detection in Cyber Physical System using Kullback-Leibler Divergence in Error Distributions. *The 5th Mining and Learning from Time Series Workshop*.

## PRESENTATION AND POSTER

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**Keystone State Statistics Symposium**  
*Penn State University*

Oct 2023

- Poster : Dynamic prediction for survival outcomes with intensively observed longitudinal predictors

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	R, Python, MATLAB, $\text{\LaTeX}$ , SAS
<b>Language</b>	Korean (Native), English (Fluent).