

# LEE, NAMHWA - CV

◇ nlee098@ucr.edu (Updated Feb, 2025)

## EDUCATION

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### **Ph.D. Candidate in Statistics, University of California, Riverside**

Advisor: Shujie Ma (Professor of University of California, Riverside)

*Fall 2020 - Present*

GPA : 4.0/4.0

### **M.S., Statistics, Sungkyunkwan University (SKKU)**

*Seoul, Republic of Korea*

Thesis: Semiparametric Scale Mixtures of Skew Normal Distribution

*Mar. 2018 - Feb. 2020*

Advisor: Byungtae Seo (Professor of Sungkyunkwan University)

GPA : 4.38/4.5

### **B.E., Statistics, Sungkyunkwan University (SKKU)**

*Seoul, Republic of Korea*

GPA : 4.09/4.5, Major GPA : 4.2/4.5

*Mar.2013 - Feb.2018*

## RESEARCH INTEREST

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My primary research interest lies in causal inference, with a focus on applying these methodologies to real-world challenges in healthcare, policy, and education. I am particularly interested in developing robust statistical methods for causal inference, especially in the context of addressing unmeasured confounders in observational data. Additionally, I am keen to explore social disparities using causal mediation analysis and dynamic treatment regimes. I am also eager to expand my research by incorporating more flexible statistical modeling approaches, including mixture modeling, machine learning and nonparametric or semiparametric statistical techniques.

## RESEARCH EXPERIENCE

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### **- Lee, N, Seo, B. (2020) Semiparametric Scale Mixtures of Skew Normal Distribution**

(Written in Korean, Master's thesis in SKKU)

### **- Lee, N., Hu, G., Ma, S. A Joint Modeling Approach to Treatment Effects Estimation with Unmeasured Confounders in Clustered Data** (Preprints, JSM Health Policy Statistics Section Student Paper Competition Award)

### **- Park, S., Lee, N., & Quintana. R. Causal Decomposition Analysis with Time-Varying Mediators: Designing Individualized Interventions to Reduce Social Disparities** (*Sociological Methods & Research*)

### **- Park, S., Lee, N., & Atit, K. (2023, November 3). Examining the Role of Undergraduate Calculus in the Persistence of Underrepresented Students in the STEM Pipeline.** <https://doi.org/10.31219/osf.io/kh9m5> (In Revision, *Journal for Research in Mathematics Education*)

## RESEARCH ASSISTANT

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**Research Assistant at Research Institute of Applied Statistics,**  
Sungkyunkwan University, Seoul, Republic of Korea.

*Mar. 2018 - Feb. 2020*

### **Graduate Student Researcher**

*Sep. 2022 - Mar. 2023*

School of Education at the University of California, Riverside.

## TEACHING ASSISTANT

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### University of California, Riverside

- STAT 004: Elements of Data Science *Summer 2022*
- STAT 008: Statistics For Business *Fall 2021 & Spring 2024*
- STAT 010: Introduction to Statistics *Summer 2022, Spring & Fall 2023, ...*
- STAT 011: Introduction to Statistics *Winter & Spring 2022*
- STAT 146: Statistical Forecasting Techniques *Fall 2021 & Winter 2024*
- STAT 170: Regression Analysis *Fall 2023 & 2024*
- STAT 171: General Statistical Models *Winter 2025*
- STAT 183: Statistical Consulting *Spring 2023 & 2024*
- STAT 200: Foundational Methods for Business Analytics *Fall 2024*

### Sungkyunkwan University (SKKU)

- Mathematics for Statistics *Spring. 2018*
- Introduction to Statistical Computing *Fall. 2018*
- Introduction to Matrix Algebra *Spring. 2019*
- Introduction to Regression Analysis *Fall. 2019*
- Introduction to Sampling Theory *Fall. 2019*
- R Programming & SAS Programming *Feb. 2018 & Aug. 2018*

## HONORS AND AWARDS

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### Sungkyunkwan University (SKKU)

- Graduate Merit Scholarship *Sep. 2017 - Feb. 2020*
- First Prize at 3rd Statistic Conference for Undergraduate Students *Feb. 2017*
- SimSan Scholarship *Fall 2018, Spring 2019*
- Graduate Merit Scholarship *Sep. 2017 - Feb. 2020*

### University of California, Riverside

- Outstanding Statistical Consultation Awards and Recognition *2022*
- Morris J. Garber Award *2023*
- Graduate Student Travel Award (up to \$1000) *2024*
- Graduate Student Association Conference Travel Grants (up to \$600) *2024*
- Outstanding Teaching Assistant Award *2023-2024 Academic year*
- Dissertation Completion Fellowship Award (\$10,000 stipend/quarter) *Spring & Summer 2025*

### Health Policy Statistics Section (HPSS) Student Paper Competition Award *2025*

- Title: *A Joint Modeling Approach to Treatment Effects Estimation with Unmeasured Confounders in Clustered Data*
- Opportunity to present a special topic contributed session at JSM 2025 and \$800 prize

## TALK

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### Graduate Student Seminar

- Treatment Effects Estimation with Unmeasured Confounding Variables *Dec.7 2023*

### Joint Statistical Meeting (JSM)

- Session: “Methodological Advancements in Causal Inference and Measurement for Mental Health Applications”.
- Treatment Effects Estimation with Unmeasured Confounding Variables *8/5/2024*

## PROGRAMMING SKILLS

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Proficient in R and SAS for statistical programming. LATEX

## LEADERSHIP & OTHER ACTIVITIES

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### Statistical Mentoring in Application, Research, and Technology Program *Spring 2024*

- Mentor undergraduate students on statistical analysis and research.
- Project topic: Statistical Learning and Data Mining using R.

### Statistical Analysis Team for Undergraduates *Spring 2016 - Summer 2017*

- Served as the team leader and president of the club.
- Led the analysis of longitudinal data using (generalized) linear mixed effect models.
- Projects included “Predicting Rio Olympic Rankings” & “Inference and Prediction of Salaries of Korean Baseball Players”.