

# SEONG JIN LEE

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## EDUCATION

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<b>University of North Carolina - Chapel Hill</b> <i>Ph.D in Statistics and Operations Research</i> Advisor: Prof. Yufeng Liu, Will Wei Sun	August 2021 - Present
<b>Seoul National University</b> <i>B.S in Statistics, Summa cum laude</i> - Leave of Absence due to Alternative Military Services	Mar 2014 - Feb 2021 Aug 2016 - Aug 2018
<b>Seoul Science High School</b>	Mar 2011 - Feb 2014

## AREAS OF INTERESTS

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Statistical Learning, Dynamic Assortment, Missing Data Analysis, Online Advertising, Data Privacy

## RELATED EXPERIENCE

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<b>Software Engineer Intern</b> <i>Moloco, Seattle Office</i> - Worked on statistical formulation the RTB ecosystem in Bidder/Applied Science team. - Implemented iterative methods for optimal bidding price formulation. - Advisor : <i>Dr. Bumsik Kim</i>	May 2022 - Aug 2022
<b>Research Assistant</b> <i>Multivariate Statistics Laboratory, SNU</i> - Methods on High Dimensional Regression with Missing Data - Advisor : <i>Prof. Johan Lim</i>	Mar 2021 - Aug 2021
<b>Undergraduate Research Internship Program</b> <i>Multivariate Statistics Laboratory, SNU</i> - Gave a Presentation in a seminar on Differential Privacy. - Working on applying thresholding to the <i>Wishart Mechanism</i> for tighter utility bound. - Advisor : <i>Prof. Johan Lim</i>	Jul 2020 - Feb 2021
<b>Statistical Analysis Research Assistant</b> <i>Joongmin Foundation</i> - Statistical Analysis of survey on the COVID-19 from 30 cities worldwide. - Advisor : <i>Prof. Sang-Jin Han</i> - Funded by <i>The National Research Foundation of Korea</i>	Jun 2020 - Dec 2020
<b>Operations and Data Science Intern</b> <i>Moloco, Seoul Office</i> - Built a machine learning model that predicts mobile user's age and gender. - Worked on optimizing bidding strategies for running ad campaigns. - Advisor : <i>Dr. Duk-Soon Oh</i>	Dec 2018 - Jun 2019

## SCHOLARSHIPS AND AWARDS

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<b>Cambanis-Hoeffding-Nicholson Award</b> <i>Department of Statistics and Operations Research, UNC</i> - In recognition of superior academic eprformance in the first-year doctoral program	Dec 2022
<b>Presidential Science Scholarship</b> <i>Korean Student Aid Foundation</i>	2014 - 2019
<b>Dean's List</b> <i>College of Natural Sciences, SNU</i>	Fall 2015, Fall 2018, Fall 2019
<b>Silver Medal, Korean Mathematical Olympiad</b> <i>Korean Mathematical Society</i>	2012

## PROJECTS

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<b>Class Project, <i>Advanced Statistical Computing</i></b> Reproduction of <i>Statistical inference for the population landscape via moment-adjusted stochastic gradients (2019)</i> with Julia - Advisor : Prof. Joong-Ho Won	Fall 2020
<b>Class Project, <i>Deep Learning: Statistical Perspective</i></b> <i>Modification of Cycle-GAN Using Weight</i> - Advisor : Prof. Myunghee Cho Paik	Fall 2019
<b>Class Project, <i>Data Mining Methods and Lab</i></b> <i>Genetic Association Study of Classifying Osteoarthritis with Anseong- Ansan Cohort Study Data</i> - Advisor : Prof. Taesung Park	Fall 2019
<b>Individual Project, <i>Moloco</i></b> <i>Prediction Model of Mobile User's Demographic Information</i> - Advisor : Dr. Duk-soon Oh	Spring 2019
<b>High School Thesis, <i>Seoul Science High School</i></b> <i>Application of Epidemic Models on Trends of Internet</i> - Advisor : Dr. Mann Ho Kim	2013

## TEACHING EXPERIENCE

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<b>Teaching Assistant</b> <i>University of North Carolina</i> - STOR 455, Methods of Data Analysis	Spring 2022
<b>Lab Instructor</b> <i>University of North Carolina</i> - STOR 120, Foundations of Statistics and Data Science	Fall 2022

## PROGRAMMING SKILLS

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<b>Proficient</b>	R, Python, Julia, SQL, $\text{\LaTeX}$
<b>Familiar</b>	C/C++, MATLAB

## LANGUAGE

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**Korean**      Mother tongue  
**English**      Fluent,  
                 - TOEFL: Reading 30/30, Listening 30/30, Speaking 28/30, Writing 26/30  
                 - GRE : Verbal 157/170, Writing 4.0/6.0  
                 - Resided in Torrance, CA, USA on 2005 - 2006

## **EXTRA-CURRICULAR**

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**Volunteer Mentoring** Dec 2014 - Jan 2015

*Dream Camp, Dream Consultant*

- Mentored students about their career at Shinpyeong High School.

**Social Service Agent, Alternative Military Service** Sep 2016 - Aug 2018

*Seoul Immigration Office, Investigation Division*

- Supported immigration officers in the investigation process including English translation.