

# JIYOUNG PARK

Last Update: June 1, 2023  
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## EDUCATION

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- Ph.D. in Statistics, Texas A&M University** 2021.08 - Present
- Advisor: Dr. Anirban Bhattacharya
- Bachelor of Science and Arts, Seoul National University (SNU)** 2013.03 - 2020.08
- Major: Statistics (College of Natural Science), Economics (College of Social Science)
  - Minor: Computer Science and Engineering (College of Engineering)
  - Graduation with honors (Summa cum laude)
  - GPA (Overall, Major / Maximum): 3.96, 4.09 / 4.3

## RESEARCH INTEREST

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Optimal Transport Theory  
Geometric & Topological Approaches in Statistics and Machine Learning  
Asymptotic & Approximation Theory  
Optimizations

## PUBLICATIONS

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- **Jiyoung Park**, Ian Pelakh, Stephan Wojtowytsch (2023). Minimum norm interpolation by shallow networks: Explicit regularization and implicit bias (Submitted).

## TEACHING

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- Teaching Assistant** Texas A&M University
- Stat 445/645: Applied Biostatistics and Data Analysis Fall 2022
  - Stat 642: Methods of Stat II Spring 2022
  - Stat 652: Stat In Research II Fall 2021

## PROFESSIONAL EXPERIENCES

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### Research Experiences

- NSF Math Sciences Graduate Internship (*Intern*) 2023.05.22 - 2023.07.28
- Hosting Facility: National Institute of Standards and Technology (Gaithersburg )
  - Supervisor: Dr. Gunay Dogan
  - Topic: Scientific Image Processing
- KC Machine Learning Lab, South Korea (*Research Resident*) 2019.05 - 2021.02
- Advisor: Dr. Chan Y. Park
  - Researches on Machine Learning
    - The Representation Learning in a Reinforcement Learning
    - Graph Neural Network
- Biostatistics Lab, SNU (*Undergrad Intern*) 2019.03 - 2019.08

- Advisor: Dr. Myunghee Cho Paik
- Anomaly Detection in a Network Flow
  - Applying the autoencoder based anomaly detection algorithm
  - Charged in data preprocessing

Time Series and Predictive Analytics Lab, SNU (*Undergrad Intern*) 2018.12 - 2019.02

- Advisor: Dr. Sangyeol Lee
- Prediction of Air Pollution Using RNN
  - Fitted an RNN model to predict air pollution levels
  - Compared the performance with a SARIMA model

Spatial Statistics Lab, SNU (*Undergrad Intern*) 2017.12 - 2018.02

- Advisor: Dr. Chae Young Lim
- Bayesian Disease Mapping to Korea Schizophrenia data
  - Tested a significance of spatial correlations for the incidence rates of Schizophrenia in South Korea
  - Fitted a bayesian hierarchical regression model on incidence rates

### Work Experience

NAVER WEBTOON Corp., Korea (*Software Engineer Intern*) 2018.07 - 2018.08

- Implemented HBase APIs for log-Data preprocessing

## HONORS & SCHOLARSHIPS

Summa Cum Laude, Seoul National University 2020.08

Samsung Convergence Software Course (SCSC) 2017.09 - 2020.08

- Jointly Certified by Seoul National University and Samsung Electronics.

Bank of Korea Monetary Policy Challenge 2017.08

- 2nd Place in Regional Qualifier & 4th Place in National Finals

Merit-based Scholarships, Seoul National University 2014.03 - 2014.06, 2016.09 - 2020.02

- Scholarship Awarded Based on GPA

Youndang Scholarship, Youndang Scholarship Foundation 2017.03 - 2020.02

Jeonju Scholarship, Jeonju Human Resources Development Foundation 2016.09 - 2016.12

Work-Study Scholarship, Seoul National University 2016.09 - 2018.08

## TECHNICAL SKILLS

**Programming Languages** Python, R, C, Java, Assembly Language (x86-64)

**Software & Frameworks** Pytorch, Rcpp, Linux, L<sup>A</sup>T<sub>E</sub>X, Git, SQL, HBase

## EXTRACURRICULAR ACTIVITIES

**SNU Financial and Economic Research Seminar (SFERS)** 2016.09 - 2017.12

- Analysis of the Labor Market Equilibrium Under Foreign Labor Influx  
(*Team Director*) 2017.09 - 2017.12
- Analysis on Relation Between Decentralization and Economical Growth  
(*Deputy Team Director*) 2017.03 - 2017.06
- Analysis and Policy Proposal for Inequality of Income in Korea Using  
Gini-Coefficient Decomposition of Source of Income  
(*Team Member*) 2016.09 - 2016.12

<b>Republic of Korea Auxiliary Police</b>	2014.09 - 2016.06
Joong-bu Security Patrol, Seoul Metropolitan Police Agency	
- Discharged as a Sugyeong (Equivalent to a Sergeant in Republic of Korea Army)	
<b>Volunteering</b>	
- Cooking Class Assistant for Students with Disabilities	2019.03 - 2019.06
- Teaching Volunteer for Multicultural Students	2014.03 - 2014.06
<b>SNU Festival Planning Organization</b>	
- PR Team: Team Member (13.08-14.01), Leader (14.01-14.06)	2013.08 - 2014.06

#### **ADDITIONAL INFORMATION**

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<b>Date of Birth</b>	1994.04.22
<b>Citizenship</b>	Republic of Korea
<b>Mandatory Military Service</b>	Completed
<b>Language</b>	Korean (Native), English (Fluent)