

# JIYOUNG PARK

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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

## PUBLICATIONS

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### In Progress

- **Jiyoung Park**, Ian Pelakh, Stephan Wojtowytsch (2023?). Implicit Bias and Explicit Regularization: A Case Study in Optimization Using Known Minimum Norm Interpolants.

## 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

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 ( <i>Undergrad Intern</i> )	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 ( <i>Undergrad Intern</i> )	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	
<b>Work Experience</b>	
NAVER WEBTOON Corp., Korea ( <i>Software Engineer Intern</i> )	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

<b>Programming Languages</b>	Python, R, C, Java, Assembly Language (x86-64)
<b>Software &amp; Frameworks</b>	Pytorch, Repp, Linux, L <sup>A</sup> T <sub>E</sub> X, Git, SQL, HBase

## EXTRACURRICULAR ACTIVITIES

<b>SNU Financial and Economic Research Seminar (SFERS)</b>	2016.09 - 2017.12
- Analysis of the Labor Market Equilibrium Under Foreign Labor Influx ( <i>Team Director</i> )	2017.09 - 2017.12
- Analysis on Relation Between Decentralization and Economical Growth ( <i>Deputy Team Director</i> )	2017.03 - 2017.06
- Analysis and Policy Proposal for Inequality of Income in Korea Using Gini-Coefficient Decomposition of Source of Income ( <i>Team Member</i> )	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)	

**Volunteering**

- Cooking Class Assistant for Students with Disabilities 2019.03 - 2019.06
- Teaching Volunteer for Multicultural Students 2014.03 - 2014.06

**SNU Festival Planning Organization**

- 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)