

JIYOUNG PARK

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EDUCATION

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

Optimal Transport, Approximation Theory, Optimization Theory, Learning Theory, Variational Inference.

PUBLICATIONS

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

TEACHING

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

Research Experiences

NSF Math Sciences Graduate Internship. 2023.05.22 - 2023.07.28

- Hosting Facility: National Institute of Standards and Technology, Gaithersburg.
- Supervisor: Dr. Gunay Dogan.
- Topic: Geometric Uncertainty Quantification in Image Segmentation (Work in Progress).

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^AT_EX, 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

Republic of Korea Auxiliary Police	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

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