JIYOUNG PARK

Last Update: October 22, 2024
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EDUCATION

Ph.D. in Statistics, Texas A&M University 2021.08 - Present

- Advisor: Dr. Anirban Bhattacharya.
- Thesis: Statistical methods beyond Euclidean space: Alexandrov spaces and Wasserstein space.

Master in Mathematics, Texas A&M University 2023.08 - Present

- Advisor: Dr. Jonathan W. Siegel.
- Thesis: Approximation and Generalization of Shallow Neural Networks.

Bachelor of Science and Arts, Seoul National University (SNU) 2013.03 - 2020.08

- **Major**: Statistics, Economics. **Minor**: Computer Science and Engineering.
- Graduation with honors (Summa cum laude).
- GPA (Overall, Major / Maximum): 3.96, 4.09 / 4.3

RESEARCH INTEREST

- Statistics: Statistical Optimal Transport, Variational Inference, Sampling, Non-Euclidean Statistics.
- Machine Learning: Approximation Theory, Optimization, Statistical Learning Theory, Generalization of Neural Network.

PUBLICATIONS

Published & Accepted Articles

- **Jiyoung Park**, Ian Pelakh, Stephan Wojtowytsch (2023). "Minimum norm interpolation by perceptra: Explicit regularization and implicit bias". *NeurIPS 2023*. [Link]

Preprints

- **Jiyoung Park**, Günay Doğan (2024). "Probabilistic U-Net with Kendall Shape Spaces for Geometry-Aware Segmentations of Images". [Arxiv]

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. Günay Doğan.
- Topic: Geometric shape analysis.

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 (A blog post).

Work Experience

Naver Webtoon Corp., South Korea *(Software Engineer Intern).* 2018.07 - 2018.08

- Implemented HBase APIs for log-Data preprocessing.

TEACHING

Teaching Assistant Texas A&M University

- Stat 633: Advanced Bayesian Modeling and Computation (Graduate) Fall 2024
- Stat 438: Bayesian Statistics (Undergrad) Spring 2024
- Stat 445/645: Applied Biostatistics and Data Analysis (Graduate) Fall 2022
- Stat 642: Methods of Stat II (Graduate) Spring 2022
- Stat 652: Stat In Research II (Graduate) Fall 2021

INVITED TALKS & SEMINARS

Princeton Machine Learning Theory Summer School (Poster Presentation). [Link] 2024.08
Optimal Transport Through the Midwest. [Link] 2024.07
Summer School on Optimal Transport and Applications. [Link] 2024.06
NeurIPS 2023 (Poster Presentation) 2023.12

AWARDS & HONORS

NeurIPS 2023 Scholar Award. 2023.12
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, LaTeX, Git, SQL, HBase.

ADDITIONAL INFORMATION

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