

JIYOUNG PARK

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E-Mail: wldydd15510@tamu.edu

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EDUCATION

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

- Advisor: Anirban Bhattacharya.

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

- Advisor: Jonathan W. Siegel.

- Thesis(tentative): Convergence in Barron Space and Implicit Bias.

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

Statistical Learning Theory, Deep Learning Theory, Approximation Theory, Optimization, Non-Euclidean Statistics, Optimal Transport.

PUBLICATIONS

($\cdot^{\alpha,\beta}$ denotes equal contribution, alphabetically ordered authorship)

Published & Accepted Articles

- **Jiyoung Park**, Abhishek Roy, Jonathan W. Siegel, Anirban Bhattacharya (2025). “Acceleration via silver step-size on Riemannian manifolds with applications to Wasserstein space”. *NeurIPS 2025*. [Arxiv]
- Jakwang Kim $^{\alpha,\beta}$, **Jiyoung Park** $^{\alpha,\beta}$, Anirban Bhattacharya. “Robust Estimation in metric spaces: Achieving Exponential Concentration with a Fréchet Median”. *AISTATS 2025*. [Paper], [Slides], [Codes].
- **Jiyoung Park**, Ian Pelakh, Stephan Wojtowytsch. “Minimum norm interpolation by perceptrs: Explicit regularization and implicit bias”. *NeurIPS 2023*. [Paper], [Slides].

Preprints

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

Works in progress

- **Jiyoung Park**, Jonathan W. Siegel, Stephan Wojtowytsch (2025). “Tighter and general convergence analyses for two-layer neural networks”. [In preparation]

WORK EXPERIENCES

NSF Math Sciences Graduate Internship.	2023.05.22 - 2023.07.28
<ul style="list-style-type: none">- Hosting Facility: National Institute of Standards and Technology, Gaithersburg.- Supervisor: Dr. Günay Doğan.- Research Topic: Geometric shape analysis.	
KC Machine Learning Lab, South Korea (<i>Research Resident</i>).	2019.05 - 2021.02
<ul style="list-style-type: none">- Supervisor: Dr. Chan Y. Park.- Research Topic: Graph Neural Network and GraphDB [Technical blog post].	
Naver Webtoon Corp., South Korea (<i>Software Engineer Intern</i>).	2018.07 - 2018.08
<ul style="list-style-type: none">- Implemented HBase APIs for log data preprocessing.	

TEACHING

Teaching Assistant	Texas A&M University
- Stat 633: Advanced Bayesian Modeling and Computation (Graduate)	Fall 2025
- Stat 689: Special topics in Statistics-Advanced Bayes (Graduate)	Spring 2025
- 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

AISTATS 2025 (<i>Poster Presentation</i>).	2025.05
Princeton Machine Learning Theory Summer School (<i>Poster Presentation</i>). [Info]	2024.08
Optimal Transport Through the Midwest (<i>Student Participant</i>). [Info]	2024.07
Summer School on Optimal Transport and Applications (<i>Student Participant</i>). [Info]	2024.06
NeurIPS 2023 (<i>Poster Presentation</i>).	2023.12

SERVICE

Reviewer
NeurIPS 2025.

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
Merit-based Scholarships, Seoul National University.	2014.03 - 2014.06, 2016.09 - 2020.02
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 ^A T _E X, Git, SQL, HBase.

ADDITIONAL INFORMATION

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

LIST OF REFERENCES

Anirban Bhattacharya

Professor

Department of Statistics, Texas A&M University

Email: anirbanb@stat.tamu.edu

Jonathan W. Siegel

Assistant Professor

Department of Mathematics, Texas A&M University

Email: jwsiegel@tamu.edu

Stephan Wojtowytsch

Assistant Professor

Department of Mathematics, University of Pittsburgh

Email: s.woj@pitt.edu