JIYOUNG PARK

Last Update: November 4, 2025
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EDUCATION

Ph.D. in Statistics, Texas A&M University 2021.08 - 2026.08 (expected)

- Advisor: Anirban Bhattacharya.
- Thesis (tentative): Statistical methods on non-Euclidean spaces.

Master in Mathematics, Texas A&M University 2023.08 - 2025.12 (expected)

- Advisor: Jonathan W. Siegel.
- Thesis: Statistical Analyses and minimum norm interpolation for Two-Layer Neural Networks.
- GPA: 4.0 / 4.0

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

- **Major**: Statistics, Economics (double). **Minor**: Computer Science and Engineering.
- Graduation with honors (Summa cum laude).
- Completed mandatory military service: 2014.09 - 2016.06.
- 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, Information Theory.

PUBLICATIONS

(∗ 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*. [Paper], [Codes].
- Jakwang Kim*, **Jiyoung Park***, Anirban Bhattacharya (2025). "Robust Estimation in metric spaces: Achieving Exponential Concentration with a Fréchet Median". *AISTATS 2025*. [Paper], [Slides], [Codes].
- **Jiyoung Park**, Ian Pelakh, Stephan Wojtowytsch (2023). "Minimum norm interpolation by perceptra: Explicit regularization and implicit bias". *NeurIPS 2023*. [Paper], [Slides].

Preprints

- **Jiyoung Park***, Jaewook J. Suh*, Bofan Wang, Anirban Bhattacharya, Shiqian Ma (2025). "Adaptive gradient descent on Riemannian manifolds and its applications to Gaussian variational inference". *Submitted to ICLR 2026*. [Link]
- **Jiyoung Park**, Günay Doğan (2024). "Probabilistic U-Net with Kendall Shape Spaces for Geometry-Aware Segmentations of Images". [Arxiv]

Work in progress

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

WORK EXPERIENCES

NSF Math Sciences Graduate Internship (MSGI). 2023.05.22 - 2023.07.28

- Hosting Facility: National Institute of Standards and Technology, Gaithersburg.
- Supervisor: Dr. Günay Doğan.
- Research Topic: Geometric shape analysis.

KC Machine Learning Lab, South Korea *(Research Resident).* 2019.05 - 2021.02

- Supervisor: Dr. Chan Y. Park.
- Research Topic: Graph Neural Network and GraphDB [Technical blog post].

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 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

Princeton Machine Learning Theory Summer School (*Poster Presentation*). [Info] 2024.08
Optimal Transport Through the Midwest (*Student Participant*). [Info] 2024.07
Summer School on Optimal Transport and Applications (*Student Participant*). [Info] 2024.06
Inaugural CAMDA Conference (*Poster Presentation).* [Info] 2023.05

SERVICE

Reviewer
ICLR 2026, NeurIPS 2025 (Awarded top reviewer).

AWARDS & HONORS

NeurIPS 2025 Top Reviewer Award. 2025.10
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
Work-Study Scholarship, Seoul National University. 2016.09 - 2018.08
Jeonju Scholarship, Jeonju Human Resources Development Foundation. 2016.09 - 2016.12

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 (Republic of Korea Auxiliary Police)
Language	Korean (Native), English (Fluent)

LIST OF REFERENCES

Anirban Bhattacharya
Professor and Patricia R. Smith and Dr. William B. Smith Faculty Fellow for Statistics
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