

# JIYOUNG PARK

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## EDUCATION

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

- Advisor: Anirban Bhattacharya.
- Tentative Thesis Topic: Statistical methods on non-Euclidean spaces.

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

- Advisor: Jonathan W. Siegel.
- Tentative Thesis Topic: Convergence analyses for two-layer 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

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

## PUBLICATIONS

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( $\cdot^{\alpha,\beta}$  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). “Sharp and general convergence analyses for two-layer neural networks”. [In preparation]

## WORK EXPERIENCES

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

## TEACHING

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<b>Teaching Assistant</b>	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

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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

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**Reviewer**  
NeurIPS 2025.

## AWARDS & HONORS

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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

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

## 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)

## LIST OF REFERENCES

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### **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