

# JIYOUNG PARK

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## EDUCATION

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

- Advisor: Anirban Bhattacharya.
- Thesis (tentative): Statistical and computational methods for nonlinear spaces.

**Master in Mathematics, Texas A&M University** (dual degree) 2023.08 - 2025.12

- 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

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

## PUBLICATIONS

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

## WORK EXPERIENCES

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- 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

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- 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

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- Short Course and Workshop on Scientific Machine Learning and Applications [Info] 2025.12
- Talk title: Stepsize-Based Accelerated and Adaptive Gradient Descent on Riemannian Manifolds and Wasserstein Space.
- 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

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

## AWARDS & HONORS

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- 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

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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.

## EXTRACURRICULAR ACTIVITIES

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<b>SNU Financial and Economic Research Seminar (SFERS).</b>	2016.09 - 2017.12
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<b>Republic of Korea Auxiliary Police</b>	2014.09 - 2016.06
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Joong-bu Security Patrol, Seoul Metropolitan Police Agency.

- Discharged as a Sugyeong (Equivalent to a Sergeant in Republic of Korea Army).

### Volunteering

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|---|-------------------|
| - Cooking Class Assistant for Students with Disabilities. | 2019.03 - 2019.06 |
| - Teaching Volunteer for Multicultural Students.          | 2014.03 - 2014.06 |

## 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 (Republic of Korea Auxiliary Police)
<b>Language</b>	Korean (Native), English (Fluent)

## LIST OF REFERENCES

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### 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

### Abhishek Roy

Assistant Professor  
Department of Statistics, Texas A&M University  
Email: abhishekroy@tamu.edu

### Alan Dabney (on my teaching ability)

Professor and Associate Head for Teaching Excellence  
Department of Statistics, Texas A&M University  
Email: adabney@tamu.edu