

# JIYUN PARK

[jiyunp@stanford.edu](mailto:jiyunp@stanford.edu)

[jiyunpk.github.io](https://jiyunpk.github.io)

## EDUCATION

---

<b>Stanford University</b> Ph.D. Candidate in Mathematics (Advisor: Amir Dembo)	Sep. 2022 - present
<b>Seoul National University</b> B.S. in Mathematics	Mar. 2018 - Feb. 2022

## RESEARCH INTERESTS

---

Discrete probability theory, large deviations, random walks, random graphs

## PREPRINTS

---

3. **Capacity of the range of random walk: Moderate deviations in dimensions 4 and 5** (with Arka Adhikari)  
[arXiv: 2507.05585](https://arxiv.org/abs/2507.05585) July 2025
2. **Upper tails of subgraph counts in directed random graphs**  
[arXiv: 2405.01980](https://arxiv.org/abs/2405.01980) May 2024
1. **Size of exceptional sets in weakly mixing systems** (with Kangrae Park)  
[arXiv: 2301.09786](https://arxiv.org/abs/2301.09786) Jan. 2023

## INVITED TALKS

---

<b>Tokyo Probability Seminar</b>	Jan. 24, 2026
<b>University of Maryland Probability Seminar</b>	Oct. 15, 2025
<b>Probability Workshop in Korea 2025</b>	Jan. 22, 2025

## SELECTED HONORS AND AWARDS

---

<b>Simons Dissertation Fellowship in Mathematics</b> , Simons Foundation	2025 - present
<b>Robert Osserman Teaching Award</b> , Stanford University	2025
<b>KFAS Overseas Ph.D. Scholarship</b> , Korea Foundation for Advanced Studies	2022 - present
<b>Korea Presidential Science Scholarship</b> , Korea Student Aid Foundation	2018 - 2021

## TEACHING EXPERIENCE

---

### Teaching Assistant, Stanford University

MATH 61DM: Modern Mathematics: Discrete Methods	Fall 2025
MATH 51: Linear Algebra, Multivariable Calculus, and Modern Applications	Spring 2025
MATH 51: Linear Algebra, Multivariable Calculus, and Modern Applications	Spring 2024

### Course Assistant, Stanford University

MATH 56: Proofs and Modern Mathematics	Fall 2024
MATH 104: Applied Matrix Theory	Winter 2024
MATH 51: Linear Algebra, Multivariable Calculus, and Modern Applications	Summer 2023
MATH 158 (CME 298): Probability and Stochastic Differential Equations for Applications	Spring 2023
MATH 19: Calculus	Fall 2022

### Tutor, Seoul National University

Basic Calculus I & II	2019, 2019, 2020, 2021
-----------------------	------------------------

## SERVICE AND OUTREACH

---

### Organizer

Student Probability Seminar	Fall 2024 - Spring 2025
-----------------------------	-------------------------

### Research Mentor

Stanford Directed Reading Program	Fall 2024, Winter 2024, Spring 2025
Stanford Undergraduate Research Institute in Mathematics	Summer 2024

### Stanford Women in Math Mentoring Program

Chair	Fall 2025 - present
Board Member	Fall 2024 - present
Mentor	Fall 2022 - present