YOUNGHUN JO

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RESEARCH INTERESTS

Probability Theory

EDUCATION

Massachusetts Institute of Technology (MIT) Sep 2025 – Present
Ph.D. in Mathematics

Seoul National University (SNU) Mar 2019 – Feb 2025
B.S. in Mathematics
Leave for Mandatory Military Service, Mar 2021 – Sep 2022

Seoul Science High School Feb 2016 – Feb 2019

PUBLICATIONS

[1] **Jo, Y.**, The Eyring–Kramers law for the extinction time of the contact process on stars, *Electronic Journal of Probability*. (2025) (arXiv) (journal)

SELECTED TALKS*

2024 KMS Annual Meeting (abstract) (slides) Oct 2024
The Eyring–Kramers Law for Extinction Time of Contact Process on Stars

13th Cornell Probability Summer School (slides) Jul 2024
Metastability of Contact Processes

KIAS Analysis, PDE & Probability Seminar (abstract) (slides) Jun 2024
The Eyring–Kramers Law for Extinction Time of Contact Process on Stars

*A full list of the talks and materials can be found here: starrysky422.github.io/talks

SELECTED HONORS & AWARDS

1st Award, Undergraduate Independent Research, SNU Faculty of Liberal Education Fall 2023
Metastability of Contact Processes [1]

The National Scholarship for Science and Engineering, Korea Student Aid Foundation 2019 – 2024

TEACHING EXPERIENCE

Teaching Assistant*, *Calculus Practice I* Spring 2024
Seoul National University
*Delivered a two-hour lecture each week, designed four quizzes, and held regular office hours.

Lecturer, *Introduction to Category Theory* (notes) Winter 2023
Winter Mentoring in College of Natural Sciences, SNU College of Natural Sciences

Lecturer, *Introduction to Mathematical Analysis (with practice) I* (notes) Winter 2022
Major Tutoring School in College of Natural Sciences, SNU College of Natural Sciences

Attended Conferences & Workshops

Probability Workshop in Korea 2026, Jeonju, Korea	Jan 2026
24th Northeast Probability Seminar, CUNY, USA	Nov 2025
Universality, Nonlinearity, and Integrability: in honor of Percy Deift, KIAS, Korea	May 2025
Probability Workshop in Korea 2025, Jeongseon, Korea	Jan 2025
Workshop on Probability and Mathematical Physics in Gimhae 2024, Gimhae, Korea	Dec 2024
The 17th HU-SNU Symposium on Mathematics, Seoul National University, Korea	Nov 2024
2024 KMS Annual Meeting, Sungkyunkwan University, Korea	Oct 2024
2nd China-Japan-Korea Joint Probability Workshop, Jeju, Korea	Oct 2024
13th Cornell Probability Summer School, Cornell University, USA	Jul 2024 – Aug 2024
Workshop on Combinatorics and Probability, KIAS, Korea	Jun 2024
2024 Algebra Camp, Yangpyeong, Korea	Feb 2024
Probability Workshop in Korea 2024, Sokcho, Korea	Jan 2024
Probability Winter School in Korea 2023, Jeongseon, Korea	Dec 2023
KMS Special Conference with 2022 Fields Medalists, Seoul National University, Korea	Oct 2023
3rd International Undergraduate Mathematics Summer School, Seoul National University, Korea	Aug 2023
Random Structures & Algorithms 2023, Carnegie Mellon University, Korea	Jun 2023

Last updated on January 6, 2026