Seoyeon Yang

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Department of Mathematics
Princeton University
Citizenship : Republic of Korea
Date of Birth : March 5, 1998
Updated June 9, 2024

FIELDS OF INTEREST

Probability theory, with a focus on percolation models, phase transition phenomena, and mixing times.

EDUCATION

Princeton University   Sep. 2022 – present
– Ph.D in Mathematics, in progress.

Seoul National University (SNU)   Mar. 2017 – Feb. 2022
– B.S. in Mathematics, *Summa Cumme Laude*

RESEARCH EXPERIENCE

2. **Cut-off and dynamical phase transition for the general multi-component Ising model**, *Journal of Statistical Physics* 190(151) (2023)
   – Available at doi

1. **Relaxation dynamics of SIR-flocks with random epidemic states** (with Seung-Yeal Ha and Hansol Park), *Commun. Pure Appl. Anal.* 21(11): 3887-3918 (2022)
   – Available at https://www.aimsciences.org

HONORS & AWARDS

Simon Marais Mathematics Competition, pair prize, 1st place, 2nd place	2019, 2021
8th Romanian Master in Mathematics, Silver Medal (Top silver)	2016
University Students' Contest of Mathematics, Korean Mathematical Society (Gold, Silver Prize)	2019, 2020
China Girls' Mathematical Olympiad, Gold Medal	2014
Final Korea Mathematics Olympiad, Excellence Award	2015

SCHOLARSHIPS

ILJU foundation, ILJU academy and culture foundation	2022–2026
Presidential Science Scholarship, Korea Student Aid Foundation	2017–2021
Scholarship for the Distinguished Undergraduates, Korea Foundation for Advanced Studies	2018–2021
Hansung Nobel Scholarship, Hansung Scholarship Foundation	2015–2016

TALKS

- KIAS Analysis, PDE & Probability Seminar, Korea Institute for Advanced Studies
  - *Conjecture on the sharp phase transition for the interchange process on $\mathbb{Z}^d$*   Jan. 10, 2023
  - *Cutoff and Dynamical Phase Transition for the General Multi-component Ising Model*   Jul. 14, 2022

REFEREE SERVICE

- Electronic Communications in Probability (ECP)   2022

TEACHING EXPERIENCE

- SNU undergraduate mentoring for *Introduction to Analysis I*   2021
- Korean Mathematical Olympiad Summer/Winter Program Teaching Assistant
  2017, 2018 Summer, 2017, 2018 2019 Winter