HYOJEONG SON

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EDUCATION

University of Washington, Seattle

Sep. 2021 - Present

Ph.D. in Mathematics

Advisor: Christopher Hoffman

Washington University in St. Louis

Sep. 2019 - May 2021

A.M. in Mathematics

Stony Brook University

Feb. 2015 - Dec. 2018

B.S. in Mathematics, Applied Mathematics and Statistics, Minor in Computer Science

RESEARCH INTERESTS

Discrete Probability

PUBLICATIONS

- [1] Brown, M., Hoffman, C., and Son, H., Activated Random Walks on Z with Critical Particle Density (2024+)
- [2] Hough, R., and Son, H., Cut-off for Sandpiles on Tiling Graphs, Annals of Probability, 49 (2), pp. 671–731. [arXiv:1902.04174] (2021)
- [3] Hough, R., and Son, H., The Spectrum of the Abelian Sandpile Model, Mathematics of Computation, 90(327), pp. 441–469. [arXiv:1905.07015] (2020)

AWARDS AND HONORS

• Finalist for the Departmental Teaching Award
Selected as a finalist for the Departmental Teaching Award at the University of Washington.

• Birnbaum Fellowship

Awarded a \$2,000 fellowship by the University of Washington Mathematics Department.

• Summer Math Scholarship

2018

Received a scholarship covering two semesters, given annually to one student in the Mathematics Department at Stony Brook University.

- Undergraduate Recognition Award for Academic Excellence 2018
 Campus-wide award recognizing academic accomplishments that extend beyond classroom experience at Stony Brook.
- Director of the IT Promotion Center Award

 Awarded to the top three students who presented work at the World IT Show in COEX,
 South Korea.
- Academic Excellence Scholarships 2015–2017

 Awarded a merit-based scholarship covering three years of tuition at Stony Brook University.

TEACHING EXPERIENCE

University of Washington, Seattle (Teaching Assistant)

- Math 111 (Algebra): Fall 2022
- Math 125 (Calculus II): Fall 2021, Winter 2022, Fall 2023
- Math 126 (Calculus III): Spring 2022, Summer 2022
- Math 207 (Differential Equations): Winter 2023, Spring 2023
- Math 394 (Probability I): Winter 2024, Fall 2024
- Math 395 (Probability II): Spring 2024