

# HYOJEONG SON

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## EDUCATION

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**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

## PUBLICATIONS

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- [1] Madeline Brown, Christopher Hoffman, and Hyojeong Son  
*Activated Random Walks on  $\mathbb{Z}$  with Critical Particle Density* (2024+)
- [2] Robert Hough and Hyojeong Son  
*Cut-off for Sandpiles on Tiling Graphs*  
Annals of Probability, 49(2), pp. 671–731 (2021)
- [3] Robert Hough and Hyojeong Son  
*The Spectrum of the Abelian Sandpile Model*  
Mathematics of Computation, 90(327), pp. 441–469 (2020)

## AWARDS AND HONORS

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- **Lisa Tanzi and Charles Egerton Endowed Graduate Fellowship** **2024**  
Awarded by the University of Washington Department of Mathematics.
- **Summer Math Scholarship** **2018**  
Awarded by the Stony Brook University Mathematics Department; covered two semesters of tuition.
- **Undergraduate Recognition Award for Academic Excellence** **2018**  
Awarded by Stony Brook University; university-wide recognition for outstanding academic accomplishments.
- **Director of the IT Promotion Center Award** **2017**  
Awarded to the top three student presenters at the World IT Show in South Korea.
- **Academic Excellence Scholarships** **2015–2017**  
Awarded by Stony Brook University; merit-based scholarship covering three years of tuition.

## TEACHING EXPERIENCE

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**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, Winter 2025

### **Mentorship and Project Involvement**

- **Washington Experimental Mathematics Lab** *Spring 2024*  
Mentored undergraduates on projects involving voting data, map analysis, and ecological inference in the Yakima Valley area.
- **Graduate Student-Led Reading Program, WashU** *Spring 2020*  
Organized and led a reading group for math undergraduates, focusing on sandpiles.