

ROHIN W. GILMAN

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EDUCATION

Ph.D. in Applied Mathematics <i>University of Washington, Seattle, WA</i>	June 2027 (Expected)
M.S. in Applied Mathematics <i>University of Washington, Seattle, WA</i>	June 2024
B.S. in Mathematics and B.S. in Computer Science <i>Louisiana State University, Baton Rouge, LA</i>	May 2022

EMPLOYMENT

Graduate Teaching Assistant <i>University of Washington, Department of Applied Mathematics</i>	September 2022 - Present
Graduate Student Instructor <i>University of Washington, Department of Applied Mathematics</i>	June 2024 - August 2024
Supplemental Instruction Observation Leader <i>Louisiana State University, Center for Academic Success</i>	January 2022 - May 2022
Supplemental Instruction Peer Mentor <i>Louisiana State University, Center for Academic Success</i>	May 2020 - December 2021
Supplemental Instruction Leader <i>Louisiana State University, Center for Academic Success</i>	August 2019 - May 2020
Undergraduate Research Assistant <i>Louisiana State University, Department of Mathematics</i>	August 2018 - May 2021

HONORS AND AWARDS

University Medal <i>Louisiana State University</i>	May 2022
Astronaut Scholarship <i>Astronaut Scholarship Foundation</i>	June 2021
Goldwater Scholarship <i>Barry Goldwater Scholarship & Excellence in Education Foundation</i>	March 2021
Pasquale Porcelli Undergraduate Scholarship <i>Louisiana State University Department of Mathematics</i>	March 2021
Peg and Tom Madden Undergraduate Research Fellowship <i>Louisiana State University Department of Mathematics</i>	May 2020
Demarcus D. Smith Scholarship <i>Louisiana State University Department of Mathematics</i>	April 2019
Demarcus D. Smith Scholarship <i>Louisiana State University Department of Mathematics</i>	December 2018

RESEARCH

- Spatial Structure in Colorectal Cancer Evolution** **June 2023 - Present**
Advisor: Ivana Bozic, UW Department of Applied Mathematics
Simulated colorectal cancer evolution model including spatial information for individual cells and analyzed simulated data to study early development of colorectal cancer.
- Modeling DNA Packing Using Elastic Rods** **March 2021 - January 2022**
Advisor: Shawn Walker, LSU Department of Mathematics
Modeled and simulated elastic curves under extreme confinement using differential equations, optimization, and numerical analysis.
- University of Chicago Mathematics REU: Bond Percolation** **June 2020 - August 2020**
Advisors: Peter Morfe, Peter May, University of Chicago Department of Mathematics
Wrote a survey paper about bond percolation on the integer lattice, a simplified model for the potential for water to diffuse in a porous material, that covered the subcritical phase, supercritical phase, physically motivated conjectures about the critical point, and rigorous results that are known for critical percolation on a binary tree.
- Lie-Trotter Type Product Formulas for Nonlinear ODEs** **August 2018 - August 2021**
Advisor: Frank Neubrander, LSU Department of Mathematics
Demonstrated how Koopman's global linearization can be used to extend product formulas to approximate solutions to non-linear differential equations and computed the rate of convergence of these approximations.
Presented: Apr. 9, 2019 at the LSU Discover Day (Poster); Baton Rouge, LA
Presented: Oct. 19, 2019 at the TX-LA Undergraduate Math Conference (Oral, Poster); College Station, TX
Presented: Apr. 28, 2020 at the LSU Discover Day (Online); Baton Rouge, LA
Presented: Aug. 14, 2021 at the Astronaut Scholar Technical Conference (Oral); Orlando, FL

TEACHING

- AMATH 351 - Introduction to Differential Equations and Applications** **Summer 2024**

SERVICE

- Diversity, Equity, Inclusion, Accessibility, and Justice (DEIAJ) Committee** **March 2023 - Present**
University of Washington, Department of Applied Mathematics
- Writing and Critical Thinking Instructor with Minds Matter Seattle** **August 2023 - May 2024**
- Research Mentor with Baton Rouge Youth Coalition** **August 2021 - May 2022**
- Undergraduate Research Ambassador** **January 2019 - May 2022**
Louisiana State University, Discover Undergraduate Research
- Volunteer Instructor with Louisiana Math Circle** **August 2018 - April 2019**

MEMBERSHIPS

- American Mathematical Society (AMS)** **January 2024 - Present**
- Society of Industrial and Applied Mathematics (SIAM)** **January 2023 - Present**