ROHIN W. GILMAN

rwgilman@uw.edu | 225-368-7048

EDUCATION

Ph.D. in Applied Mathematics — **June 2027 (Expected)**
University of Washington, Seattle, WA

M.S. in Applied Mathematics — **June 2024**
University of Washington, Seattle, WA

B.S. in Mathematics and B.S. in Computer Science — **May 2022**
Louisiana State University, Baton Rouge, LA

EMPLOYMENT

Graduate Teaching Assistant — **September 2022 - Present**
University of Washington, Department of Applied Mathematics

Graduate Student Instructor — **June 2024 - August 2024**
University of Washington, Department of Applied Mathematics

Supplemental Instruction Observation Leader — **January 2022 - May 2022**
Louisiana State University, Center for Academic Success

Supplemental Instruction Peer Mentor — **May 2020 - December 2021**
Louisiana State University, Center for Academic Success

Supplemental Instruction Leader — **August 2019 - May 2020**
Louisiana State University, Center for Academic Success

Undergraduate Research Assistant — **August 2018 - May 2021**
Louisiana State University, Department of Mathematics

HONORS AND AWARDS

O'Malley Fellowship — **March 2025**
University of Washington Department of Applied Mathematics

University Medal — **May 2022**
Louisiana State University

Astronaut Scholarship — **June 2021**
Astronaut Scholarship Foundation

Goldwater Scholarship — **March 2021**
Barry Goldwater Scholarship & Excellence in Education Foundation

Pasquale Porcelli Undergraduate Scholarship — **March 2021**
Louisiana State University Department of Mathematics

Peg and Tom Madden Undergraduate Research Fellowship — **May 2020**
Louisiana State University Department of Mathematics

Demarcus D. Smith Scholarship — **April 2019**
Louisiana State University Department of Mathematics

Demarcus D. Smith Scholarship — **December 2018**
Louisiana State University Department of Mathematics

RESEARCH

Spatial Structure in Colorectal Cancer Evolution **June 2023 - Present**
Advisor: Ivana Bozic, UW Department of Applid Mathematics

Simulated colorectal cancer evolution model including spatial information for individual cells and analyzed simulated data to study early development of colorectal cancer.

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**