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

University of Washington, Department of Applied Mathematics

Graduate Teaching Assistant	September 2025 - March 2025
	September 2023 - June 2024
	September 2022 - June 2023
Graduate Student Instructor	June 2024 - August 2024
Graduate Research Assistant	June 2023 - September 2023

Louisiana State University, Center for Academic Success

Supplemental Instruction Observation Leader	January 2022 - May 2022
Supplemental Instruction Peer Mentor	May 2020 - December 2021
Supplemental Instruction Leader	August 2019 - May 2020

Louisiana State University, Department of Mathematics

Undergraduate Research Assistant	August 2018 - May 2021

TEACHING

University of Washington, Instructor

AMATH 351: Introduction to Differential Equations and Applications	Summer 2025
AMATH 351: Introduction to Differential Equations and Applications	Summer 2024

University of Washington, Teaching Assistant

AMATH 482: Computational Methods for Data Analysis	Winter 2025
AMATH 422/522: Computational Modeling of Biological Systems	Fall 2024
AMATH 352: Applied Linear Algebra and Numerical Analysis	Spring 2024
AMATH 383: Introduction to Continuous Mathematical Modeling	Winter 2024
AMATH 401/501: Vector Calculus and Complex Variables	Fall 2023
AMATH 352: Applied Linear Algebra and Numerical Analysis	Spring 2023
MATH 124: Calculus with Analytic Geometry I	Winter 2023
MATH 124: Calculus with Analytic Geometry I	Fall 2022

RESEARCH

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

Studied the early evolution of colorectal cancer using a stochastic branching process model that tracks the sizes of inidividual clones of various genotypes to study the accumulation of drivers in normal colon tissue.

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

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.

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

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

MEMBERSHIPS

American Mathematical Society (AMS)   January 2024 - Present

Society of Industrial and Applied Mathematics (SIAM)   January 2023 - Present