Ryan Sullivan

+1 (401) 282 9512 | sullivanryan15@gmail.com

Graduate proficient in pure and applied math seeking opportunities in quantitative finance (May '24)

EDUCATION

University of Rhode Island, PhD in Pure Mathematics | Rhode Island, USA
University of Rhode Island, MS in Pure Mathematics | Rhode Island, USA
University of Rhode Island, BS in Pure Mathematics | Rhode Island, USA
Cranston High School West, | Rhode Island, USA

June 2022
GPA: ?? / 4.0

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Aug 2020
June 2017

Research Area: Difference Equations | Dynamical Systems | Mathematical Biology

Courses: Probability + Stochastic Calculus | Optimization | Numerical Analysis | Dynamical Systems | PDE | Combinatorics

EXPERIENCE

University of Rhode Island, Graduate Teaching Assistant

Aug 2020 - May 2024

- Sole instructor for one class per semester. Assisted other instructors and professors by tutoring and grading.
- Classes taught: Pre-Calculus, Applied Calculus I, Calculus II

University of Rhode Island, Undergraduate Teaching Assistant

September 2018 - Aug 2020

- Assisted instructors with large lectures, grading, and tutoring
- Graded/Tutored: Probability and Statistics, Linear Algebra, Intro. to Math Rigor, Multi-Variable Calculus

Castle Hill Inn, Room Service

June 2019 - March 2020

- Transported multiple course meals from the restaurant to beach cottages around the property
- Maintained a hospitable environment for guests by setting up welcoming amenities

Carmax, Sales Associate

May 2018 - May 2019

- Guided customers through the process of buying a used car and/or selling their current vehicle
- Completed rigorous 6 week Carmax sales training

PUBLICATIONS _

Dynamics of Third Order Beverton Holt Difference Equation

Submitte

• Investigated dynamics of third order difference equation and proved a general result for all 3rd order equations

Convergent Solutions to Non-Autonomous Difference Equations

Submitted

• Found conditions for when non-autonomous difference equations inherit behavior from their limit models.

Local Stability Implies Global Stability of 2nd Order Rational Maps

To Appear

• Discovered a heuristic method for solving difference equations and applied results to open problems

TALKS

AMS Conference Dynamics of Non-autonomous Pielou Equation and Ricker's Map Brown University, Rhode Island	April 2024
URI Diff Eq. Seminar Convergent Solutions to Non-Autonomous Difference Equations University of Rhode Island	March 2024
AMS Conference Dynamics of Third Order Beverton Holt Difference Equation University of Buffalo, New York	Sept 2023
URI Diff. Eq. Seminar Dynamics of Non-Autonomous Pielou Equation and Ricker's Map University of Rhode Island	Oct 2023
URI Diff. Eq. Seminar Dynamics of Third Order Beverton Holt Difference Equation University of Rhode Island	Feb 2023
URI Diff. Eq. Seminar Periodic Forced Rational Difference Equations University of Rhode Island	Oct 2022

SKILLS_

Coding: Proficient: Mathematica, LaTeX | Good With: R, Matlab, Excel, HTML | Experience With: Python, Java Personal: Communication | Public Speaking | Critical Thinking | Problem Solving | Creativity | Organization

ORGANIZATIONS

Graduate Assistants United	Fall 2020-Spring 2024	Graduate Student Association	Fall 2020-Spring 2024
The Xtet (Jazz Band)	2021-Current	URI Jazz Combos	Fall 2017-Spring 2021
URI Orchestra	Fall 2017-Spring 2020	URI Marching Band	Fall 2017-Spring 2019
URI Big Band	Fall 2017-Spring 2022	URI Alpine Racing Team	Fall 2017-Spring 2020
Pi Mu Epsilon Honors Society	Fall 2018-Spring 2020		

Projects