


Eleanor S. Waiss

CONTACT INFORMATION

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 eleanorwaiss.github.io

EDUCATION & EXAMINATIONS

Butler University, Indianapolis, IN USA May 2025
B.S., Mathematics and Actuarial Science
Cum laude with Highest Distinction
Minor in Computer Science

Society of Actuaries

Exam P/Probability July 2022
Exam FM/Financial Mathematics February 2023

RESEARCH INTERESTS

Complex Dynamics, Number Theory, and Computer Science

AWARDS AND HONORS

National Finalist, Barry Goldwater Fellowship
Amos Carpenter Memorial Award, *Butler University* Robert O. Whitesell Endowed
Scholar in Mathematics, *Butler University*

PAPERS

(submitted to journal)

Geometric Limits of Sums of Iterated and Fixed Polynomials
with A. Kapiamba and S. Kaschner

(in progress)

Optimal Frequency Algorithm for Sums of Consecutive Primes
with J. Sorenson

INVITED PRESENTATIONS

A Limited History of Complex Dynamics
Department of Mathematics Colloquium Series, Butler University, 12 April 2024

Developing Intentional Practices and Cultivating an Inclusive Environment for Trans,
Non-Binary, and Genderqueer Students (with D. Beh, et al.)
Inclusive Pedagogy Workshop, Butler University, 24 March 2023

CONTRIBUTED LECTURES AND POSTERS

(planned) Algorithms to Write Integers as Sums of Consecutive Primes
INTEGERS 2025, Athens, GA USA, May 2025

An Atlas of Differential Topology: From Fundamentals to Stokes
URC 2025, Butler University, 11 April 2025

A Gleeful Algorithm: Enumerating Sums of Consecutive Primes
URC 2025, Butler University, 11 April 2025
BIGEAST Research Poster Symposium, New York City, NY USA, 15 March 2025
(poster)

Geometric Limits of Julia Sets of Sums of Iterates and Powers of Polynomials
Joint Mathematics Meetings, San Francisco, CA USA, 6 January 2024
Dynamical Systems and their Applications, Miami, OH USA, 29 September 2023

Dabbling in Dobble!: An Exploration of Monomatching Games (poster)
Indiana MAA Fall Sectional Meeting, Terra Haute, IN USA, 22 October 2022

EXPERIENCE

Student Researcher
 May 2024–August 2024

Department of Computer Science
 Butler University, Indianapolis IN

Summer research funded by internal grant. Worked with Dr. Jon Sorenson on computational number theory and theoretical computer science.

Mathematics Tutor
 August 2022–Present

Department of Mathematical Science,
 Butler University, Indianapolis IN

Elevated student success through developing understanding, improving communication, and overcoming anxiety towards mathematics. Classes supported include single- and multivariate-calculus, linear algebra, elementary statistics, and discrete mathematics. Supported drop-in lab hours, private tutor requests, and course-wide final exam reviews.

Actuarial Intern
 May 2023–August 2023

OneAmerica Financial Partners, Inc.
 Indianapolis IN

Intern with individual life pricing team. Projects include rate setting for indexed products, creation of a rate update memo to be distributed monthly to general agents, database creation for annual financial planning, and decrement model sensitivity/competitiveness analysis for term life products.

COURSES TUTORED **Butler University:**

MA106 Calculus I
 MA107 Calculus II
 MA125 Business Calculus
 MA162 Elementary Statistics
 MA200 Introduction to Proofs
 MA205 Discrete Mathematics
 MA208 Calculus III
 MA310 Linear Algebra
 MA334 Differential Equations
 MA361 Statistical Theory
 MA413 Rings and Fields
 MA426 Real Analysis I
 AR210 Statistically Speaking
 AR212 Win-Lose-Draw

Purdue University:

MA16200 Calculus II
 MA45300 Abstract Algebra I

Rose-Hulman Institute of Technology:

MA112 Calculus II

DEPARTMENTAL SERVICE

Butler University, Indianapolis, IN USA

Coordinator, Mathematics Lab
Athletics Tutor - Mathematics
Mathematics Lab Tutor
Actuarial Science Club President

May 2024 to May 2025
 June 2023 to May 2025
 August 2022 to April 2024
 September 2022 to August 2023

EXTRACURRICULAR SERVICE	Resident Assistant, Butler Residence Life	May 2024 to May 2025
	President, Dawgs and Dice TTRPG Club	May 2023 to May 2024
	President, Actuarial Science Club	September 2022 to August 2023
	Treasurer, LGBTQIA+ Alliance	May 2022 to May 2023
	National Polestar Coordinator, Order of the Arrow	August 2021 to September 2022
PROFESSIONAL AFFILIATIONS	Spectra: The Association for LGBTQ+ Mathematicians	
	oSTEM: Out in STEM	
	Society of Actuaries	
	Mathematical Association of America	
	Kappa Mu Epsilon	