

A Little About Me

Personal

- My goal is to be a college professor focused on undergraduate and graduate teaching and current scholarly research. I find joy in meeting new people and helping them achieve their goals in any way possible. I believe teaching and collaborating on research are similar in that it starts with being a good person and wanting success from the people you are teaching/working with.

Fun

- Former high school 3 sports athlete (baseball, soccer and basketball) and now struggling golfer
- The New York Yankees are all I watch for 5 months of the year, 6 if I'm lucky (looking good this year!)
- Always looking to try some new and interesting beer

Education

Ph.D., Mathematics, University of South Carolina. Columbia, South Carolina, August 2018 – Present.

B.S., Mathematics, Economics Second Major, *Summa Cum Laude* with Honors, Eastern Connecticut State University, Willimantic, Connecticut. August 2014 - May 2018.

Work Experience

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|---------------------------------|---|-------------------------|
| University of South Carolina | Graduate Student Instructor (GSI) | Summer 2019 - Present |
| University of South Carolina | Instructional Peer Mentor for Novice GSIs | Fall 2021 - Spring 2022 |
| | <ul style="list-style-type: none">- Facilitated small groups meetings to discuss strategies to better educate students in the classroom including but not limited to active learning strategies, classroom atmosphere, inclusivity, and more- Workshopped ways to improve our abilities as mentors in Spring 2021 including but not limited to roles in discussion, handling conflict in discussion, different forms of discourse, and more.- Learned/discussed ways to improve our abilities as instructors/mentors using the MAA's IPG book as goals. | |
| University of South Carolina | Graduate Teaching Assistant | Fall 2018 - Spring 2019 |
| Thule Inc. | Intern | Summer 2018 |
| | <ul style="list-style-type: none">- Maximized pallets of product from a distribution center to in turn minimize cost- Computed cost efficiency for distribution licenses and alternatives for distribution planning software to optimize distribution spending | |
| Analog Devices Inc. | Cyber Security Engineering Intern | Summer 2017 |
| | <ul style="list-style-type: none">- Learned the C programming language- Researched the original and a more modern/efficient algorithm for BCH error-correcting code- Implemented a BCH error-correcting code in C for commercial use | |
| Eastern Connecticut State Univ. | Head Math Tutor | Fall 2016 - Spring 2018 |
| | <ul style="list-style-type: none">- Monitor coworkers to make sure they are on time and students are receiving the help they ask for | |
| Eastern Connecticut State Univ. | Math Tutor | Fall 2014 - Spring 2015 |
| | <ul style="list-style-type: none">- Supply students in a self-serving atmosphere with tutoring in all levels of college mathematics | |

Teaching Experience

Instructor of Record

University of South Carolina	MATH 241-Vector Calculus	Summer 2022
	MATH 115-Precalculus Mathematics	Spring 2022, Fall 2019
	MATH 111-Basic College Mathematics	Fall 2021, Fall 2022
	MATH 174-Discrete Structures	Summer 2021
	MATH 152-Calculus II Workshop	Spring 2021, Fall 2022
	MATH 151-Calculus I Workshop	Spring 2021, Fall 2022
	MATH 344L/544L-Applied Linear Algebra Lab	Fall 2020, Summer 2020
	MATH 344-Applied Linear Algebra	Summer 2020
	MATH 122-Calculus for Bus. Admin. and Soc. Sci.	Spring 2020, Summer 2019

Teaching Assistant

University of South Carolina	MATH 142-Calculus II with Lab	Spring 2019, Fall 2018
Eastern Connecticut State Univ.	MAT 360-Topics: Number Theory	Fall 2017
	MAT 400-Abstract Algebra	Fall 2016

Notable Achievements and Training

- University of South Carolina Dept. of Mathematics Outstanding Graduate Teaching Award 2022
- University of South Carolina College of Arts and Sciences Mentor Professional Development Grant Spring 2022
- Instructional Peer Mentor Training Spring 2021 and 2022 (Included MAA IPG Training)
- CRLA Tutoring Certification Level 1
- Eastern Connecticut State University Honors Thesis Fellowship 2017
- Eastern Connecticut State University lone nominee for the Barry M. Goldwater Scholarship 2018
- Kappa Mu Epsilon (National Mathematics Honor Society)
- Omicron Delta Epsilon (National Economics Honor Society)
- Omicron Delta Kappa (National Leadership Society)
- Eastern Connecticut State University Honors Program Service Award 2018
- Eastern Connecticut State University Honors Program Scholarship

Current Research Projects

Irreducible Polynomials of the Form $f(x)+Mg(x)$ where $(f,g)=1$

It has been shown by Hilbert's Irreducibility Theorem that this form is irreducible for most M . We attempt to add more specificity to this result. This is joint work with M. Filaseta.

Coverings Systems for Brier Numbers

A covering system is a set of congruence classes such that every integer satisfies a congruence class. The goal is to create a covering system which gives an arithmetic progression of primes that are both Brier numbers and widely digitally delicate. This is joint work with M. Filaseta, J. Juillerat, and J. Grantham.

Irreducibility of Generalized Bernoulli Polynomials

A. Adelberg and M. Filaseta have shown that 20% of all generalized Bernoulli polynomials are irreducible. The goal of this project is to consider other cases of these polynomials and show a stronger density result. This is joint work with M. Filaseta.

Positions of Leadership

University of South Carolina	20 th High School Math Contest Asst. Coord.	Spring 2020
University of South Carolina	19 th High School Math Contest Asst.	Spring 2019
Eastern Connecticut State Univ.	Honors Student Advisory Committee	Fall 2016 - Spring 2017
Eastern Connecticut State Univ.	Math Club President	Fall 2016 - Spring 2018
Eastern Connecticut State Univ.	Math Club Vice President	Fall 2015 - Spring 2016
ECSU Campus Activity Board	Assistant Coordinator	Fall 2015 - Spring 2017

Conferences/Presentations

National Conference for Undergraduate Research (NCUR)

Lattice Tetrahedra: Undergraduate Thesis (Oral) Spring 2018

Northeast Regional Honors Conference (NRHC)

Lattice Tetrahedra: Undergraduate Thesis (Oral) Spring 2018

Modular Sum-Set Application to Sum of Two Squares (Poster) Spring 2017

Celebrating Research Excellence and Artistic Talent at Eastern Conference (CREATE)

Number Theory: Study of Special Cases in Prime Numbers (Poster) Spring 2016