Eric Geiger

Department of Mathematics North Carolina State University 2108 SAS Hall Box 8205 Raleigh, North Carolina 27695

Cell: (919) 434-7608 E-mail: edgeiger@ncsu.edu Website: https://egeig.com

Education

Ph.D., Mathematics, North Carolina State University

Expected 2021

Advisor: Irina Kogan

M.S., Mathematics, North Carolina State University

2018

B.S., Mathematics, University of North Carolina at Chapel Hill

2014

Minor in Religious Studies

Publications and Preprints _____

E. Geiger, I. A. Kogan,

Non-congruent non-degenerate curves with identical signatures.

2019

Accepted to Journal of Mathematical Imaging and Vision and published online:

https://link.springer.com/article/10.1007/s10851-020-01015-x

J. Agudelo, B. Dippold, E. Geiger, I. Klein, I. A. Kogan, A. Kokot,

Curve Reconstruction from Euclidean and Equi-Affine arc-lengths (In Progress).

Paper in progress from 2020 summer REU mentoring.

2020

Teaching Experience _____

Lecturer (Instructor Of Record)

Calculus I - Asynchronous (65 Students)

Fall 2020

Calculus for Life and Management Sciences B (3 Hybrid Sections of 25 Students)

Spring 2020

Calculus for Life and Management Sciences B (47 Students)

Fall 2019

Introduction to Finite Mathematics (212 Students)

Fall 2018

Recitation Leader

Calculus III

Spring 2019

Calculus II

Spring 2018, Spring 2017

Calculus I

Fall 2017

Research Mentorship

REU Project Mentor,

Summer 2020

Geometric Methods in Computer Vision

NC State. Raleigh, NC

Other Teaching

Paradoxes and Infinities (3 week course), Johns Hopkins CTY. Seattle, WA

Summer 2019

Awards and Honors

NCSU AWM 7-minute Lighting Talk competition co-winner	2020
Thank a Teacher Program, North Carolina State University	2019
University Graduate Fellowship, North Carolina State University	2016

Conference Presentations

Joint Math Meetings (JMM).
Geometry in the Mathematics of Data Science Special Session
(Virtual). Speaker.

Geometry of curves in time series and shape analysis.

Max Planck Institute for Mathematics in the Sciences,

Berlin, Germany (Virtual). Invited Speaker.

Differential Algebra and Related Topics (DART X).

The City University of New York (CUNY), $\,$

New York, USA. Poster presentation.

Triangle Area Graduate Mathematics Conference (TAGMaC). 2018

North Carolina State University,

Raleigh, USA. Speaker.

Programming Languages _____

Python

MATLAB

Maple

Service to Department _____

Research Presentation for Prospective Graduate Students.	
Committee Chair on Graduate Instructor Support & Tools (GIST)	

Community Outreach _____

Materials Research Science and Engineering Centers NC-SciFestival. Volunteer.

2017

2020, 2021 2019–2020

2021

2020

2020

Extra Training_

Teaching and Communication Certificate

100 hour program designed to increase accessibility, flexibility, and transferability of teaching and communication training for graduate students and postdocs at NC State.

Accessibility in the Classroom

Online 12 hour course on creating accessible instructional materials.

QPR Institute Suicide Prevention Workshop

2 hour Question, Persuade, & Refer suicide prevention workshop

Project SAFE

Workshop designed to educate participants to understand and address needs of LGBT students