

Eric Geiger

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Education

Ph.D., Mathematics, North Carolina State University Advisor: Irina Kogan	Expected 2021
M.S., Mathematics, North Carolina State University	2018
B.S., Mathematics, University of North Carolina at Chapel Hill Minor in Religious Studies	2014

Publications and Preprints

E. Geiger, I. A. Kogan, Non-congruent non-degenerate curves with identical signatures. (Accepted to <i>Journal of Mathematical Imaging and Vision</i> pending minor revisions) Preprint available at <i>arxiv:1912.09597</i>	2019
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, Geometric Methods in Computer Vision NC State. Raleigh, NC	Summer 2020
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Other Teaching

Paradoxes and Infinities (3 week course), Johns Hopkins CTY. Seattle, WA	Summer 2019
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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.	2021
Geometry of curves in time series and shape analysis. Max Planck Institute for Mathematics in the Sciences, Berlin, Germany (Virtual). Invited Speaker.	2020
Differential Algebra and Related Topics (DART X). The City University of New York (CUNY), New York, USA. Poster presentation.	2020
Triangle Area Graduate Mathematics Conference (TAGMaC). North Carolina State University, Raleigh, USA. Speaker.	2018

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
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Extra Training

Teaching and Communication Certificate (to be completed Spring 2021)
Accessibility in the Classroom
QPR Institute Suicide Prevention Workshop
Project SAFE