

Eric Geiger

Department of Mathematics
Yale University
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Education

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

Professional Appointments

Yale University, Lecturer	Fall 2021 -
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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> and published online: https://link.springer.com/article/10.1007/s10851-020-01015-x	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

Yale University

Mathematical Models in the Biosciences I: Calculus Techniques	Fall 2021
Calculus of Functions of One Variable I	Fall 2021

North Carolina State University

Calculus I - Asynchronous	Fall 2020
Calculus for Life and Management Sciences B - Hybrid Class	Spring 2020
Calculus for Life and Management Sciences B	Fall 2019
Introduction to Finite Mathematics	Fall 2018

Research Mentorship

REU Project Mentor, Geometric Methods in Computer Vision North Carolina State, Raleigh, NC	Summer 2020
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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.	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