Eric Geiger

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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 (preprint). Available at *arxiv:1912.09597*	2019

Teaching Experience

Instructor Of Record

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

Recitation Leader

Calculus III	Spring 2019
Calculus II	Spring 2018, Spring 2017
Calculus I	Fall 2017

Non-University

Paradoxes and Infinities, Johns Hopkins CTY. Seattle, WA	Summer 2019

Awards and Honors

Thank a Teacher Program, North Carolina State University	2019
University Graduate Fellowship, North Carolina State University	2016

Conference Activity

Moving Frames and their Modern Applications. Banff International Research Station (BIRS), Banff, Canada. Attendant.	2020

Differential Algebra and Related Topics (DART X).   2020
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.

Tutorial on Multiparameter Persistence, Computation, and Applications.   2018
Institute for Mathematics and its Applications,
Minneapolis, USA. Attendant.

Triangle Area Graduate Mathematics Conference (TAGMaC).   2018
UNC-Chapel Hill,
Chapel Hill, USA. Attendant.

Knots in Washington.   2018
George Washington University,
D.C., USA. Attendant.

Triangle Area Graduate Mathematics Conference (TAGMaC).   2017
Duke University,
Durham, USA. Attendant.

Departmental Talks

Non-congruent non-degenerate curves with identical signature.   2020
AWM Lightning Talk Competition.

Euclidean signature curves and non-congruent planar curves.   2019
Pure Math Graduate Seminar.

Bridge trisections of knotted surfaces in 4-manifolds.   2018
Trisections Seminar.

On the Triangulation of Manifolds and the Haupvermutung.   2018
Vector Bundles Seminar.

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

Extra Training

Accessibility in the Classroom

QPR Institute Suicide Prevention Workshop

Project SAFE

Using the Power of PowerPoint

Mission Possible: Apps and Other Technology to Engage Learners

Programming Languages

Python
MATLAB
Maple