

Trent Lucas

Brown University
Department of Mathematics

trent_lucas@brown.edu
trent-lucas.github.io

Education

Brown University

Ph.D., Mathematics, Expected May 2026.

Advisor: Bena Tshishiku

Sc.M., Mathematics, May 2022.

University of Virginia

B.A., Mathematics and Computer Science, May 2020

Research

Veech Fibrations, with Sam Freedman, submitted.

Homological Representations of Low Genus Mapping Class Groups, submitted.

Teaching

Sheridan Teaching Certificate I, Brown University, Fall 2021

Brown University

Instructor, MATH 50 Analytic Geometry and Calculus, Fall 2023

Instructor, MATH 180 Multivariable Calculus, Spring 2023

TA, MATH 180 Multivariable Calculus, Fall 2022

TA, MATH 90 Introductory Calculus Part I, Spring 2022

TA, MATH 90 Introductory Calculus Part I, Fall 2021

University of Virginia

TA, MATH 3310 Basic Real Analysis, Spring 2020

TA, MATH 3310 Basic Real Analysis, Fall 2019

Awards

E.J. McShane Prize, University of Virginia Mathematics, Spring 2020

Edwin E. Floyd Prize, University of Virginia Mathematics, Spring 2019

Mentoring

Brown University Directed Reading Program

Alex Feiner, *Representation Theory of Finite Groups*, Fall 2022

Alex Feiner, *Stokes' Theorem*, Fall 2021

Alex Feiner, *The Geometry of Surfaces*, Spring 2021

Service

Brown Graduate Student Seminar, Organizer, Fall 2021 - present

Brown Math Diversity and Inclusion Committee, Member, Fall 2022 - Spring 2023

Talks

Brown Geometry and Topology Seminar, *Veech fibrations*, December 2023

GTA Philadelphia (Temple University), *Homological Representations of Low Genus Mapping Class Groups*, May 2023

AMS New England Grad Student Conference (Brown University), *Equivariant homeomorphisms of surfaces and their action on homology*, April 2023

Brown Graduate Student Seminar, *Homological Representations of Mapping Class Groups*, Fall 2022

Brown Graduate Student Seminar, *Braid Groups!*, Spring 2021

Brown Graduate Student Seminar, *A Tour of Mapping Class Groups*, Fall 2021