

# Trent Lucas

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University of California, Irvine  
Department of Mathematics

trent.lucas@uci.edu  
trent-lucas.github.io

**Employment**     **University of California, Irvine**  
RTG Visiting Assistant Professor, July 2025 - present.

**Education**     **Brown University**  
Ph.D., Mathematics, May 2025 (Advisor: Bena Tshishiku).  
M.Sc., Mathematics, May 2022.

**University of Virginia**  
B.A., Mathematics and Computer Science, May 2020

**Research**     *Isotopy Versus Equivariant Isotopy in Dimensions Three and Higher*, preprint.  
*Birman-Hilden Theory for 3-Manifolds*, Adv. Math. 468 (2025) 110204.  
*Veech Fibrations*, with Sam Freedman, submitted.  
*Homological Representations of Low Genus Mapping Class Groups*, J. Algebra 647 (2024) 533-566.

**Teaching**     **Sheridan Teaching Certificate I**, Brown University, Fall 2021

**Brown University:**  
Instructor, MATH 520 Linear Algebra, Spring 2025  
TA, CEMA 922 Set Theory (Brown Pre-College Program), Summer 2024  
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, Fall 2021 - Spring 2022

**University of Virginia:**  
TA, MATH 3310 Basic Real Analysis, Fall 2019 - Spring 2020

**Awards**     **Outstanding Graduate Teaching Award**, Brown Math Department, Fall 2024  
**E.J. McShane Prize**, University of Virginia Math Department, Spring 2020  
**Edwin E. Floyd Prize**, University of Virginia Math Department, Spring 2019

**Mentoring**     **Brown Math Graduate Student Mentorship Program**, Fall 2022-Spring 2025  
**Brown Math Family Lunches Program**, Spring 2024  
**Brown University Directed Reading Program:**  
Michael Sinclair & Griffin Wells, *Surfaces*, Fall 2024  
Heon Lee, *Geometric Group Theory*, Summer 2024  
Luna Wang, *Geometric Group Theory*, Spring 2024  
Alex Feiner, Three projects total, Spring 2021 - Fall 2022

**Service**     **Brown Graduate Student Seminar**, Organizer, Fall 2021 - Spring 2025  
**Brown Math Diversity and Inclusion Committee**, Member, Fall 2022 - Spring 2023

Talks    Spring Topology and Dynamics Conference (Christopher Newport), March 2025  
Brown Geometry and Topology Seminar, February 2025  
University of Chicago Geometry and Topology/No Boundaries Seminar, October 2024  
Tufts University Topology/Geometric Group Theory Seminar, September 2024  
Topology, Rep. Theory, and Higher Structures (Sabhal Mòr Ostaig), June 2024  
Notre Dame Topology Seminar, March 2024  
Spring Topology and Dynamics Conference (UNC Charlotte), March 2024  
Brown Geometry and Topology Seminar, December 2023  
GTA Philadelphia (Temple University), May 2023  
AMS New England Grad Student Conference (Brown University), April 2023  
Brown Graduate Student Seminar, four talks