

Trent Lucas

Brown University
Department of Mathematics

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- Education** **Brown University**
Ph.D., Mathematics, expected May 2025 (Advisor: Bena Tshishiku).
Sc.M., Mathematics, May 2022.
- University of Virginia**
B.A., Mathematics and Computer Science, May 2020
- Research** *Birman-Hilden Theory for 3-Manifolds*, submitted.
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:**
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** University of Chicago Geometry and Topology/No Boundaries Seminar, October 2024
Tufts University Topology/Geometric Group Theory Seminar, September 2024
Topology, Representation Theory, and Higher Structures (Sabhal Mòr Ostaig), Summer 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