


Gary D. Dunkerley

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RESEARCH INTERESTS

Knot concordance and cobordism, 3- & 4-manifolds, Heegaard Floer homology, Khovanov homology

EDUCATION

The University of Georgia Ph.D. in Pure Mathematics	Athens, GA 2021-Present
Brandeis University M.A. in Pure Mathematics	Waltham, MA 2019-2020
Hillsdale College B.Sc. in Mathematics and English	Hillsdale, MI 2014-2018

TALKS & PRESENTATIONS

Invited talks

- **“New perspectives on symmetric unions”** 2024
AMS Central Sectional, San Antonio

Contributed talks

- **“Cabling squeezed knots”** 2024
Graduate Student Topology Seminar, UGA
- **“Slice torus invariants and squeezed knots”** 2023
Candidacy oral examination, UGA
- **“Slice torus invariants and genus minimizing cobordisms”** 2023
Graduate Student Geometry and Topology Conference, Harvard
- **“On Agol’s proof that ribbon concordance is a partial order”** 2023
Graduate Student Topology Seminar, UGA
- **“Goeritz matrices and the Jones polynomial”** 2023
Graduate Student Seminar, UGA
- **“HFK: top and next-to-top gradings”** 2022
Graduate Student Topology Seminar, UGA
- **“Cutting out knots”** 2022
Graduate Student Seminar, UGA
- **“Spin and Spin^c: a creature double-feature”** 2022
Graduate Student Topology Seminar, UGA
- **“On the analogy between knots and primes”** 2021
Graduate Student Seminar, UGA
- **“Topological Quantum Field Theory and the Jones Polynomial”** 2020
Graduate Student Seminar, Brandeis

TEACHING

- **Instructor of record** (University of Georgia) 2022-Present
MATH 2250: Calculus I
MATH 1113: Pre-Calculus
- **Grader** (University of Georgia) 2021-2022
MATH 3300: Applied Linear Algebra
MATH 4000: Modern Algebra and Geometry
- **Grader** (Brandeis University) 2019-2020
MATH 151A: Topology I
MATH 105A: Introduction to Real Analysis

SERVICE

- **Co-organizer: UGA Graduate Student Seminar** 2023-Present
UGA Math Dept.
- **Peer Mentor** 2023-Present
Mentees: Stephen Hu and Matthew Zediker
- **Directed Reading Program Mentor** Spring 2024
Mentee: Bradley Arogeti

HONORS & AWARDS

- **Doctoral Candidacy** 2023
University of Georgia College of Arts and Sciences
- **Winning submission: “Eliciting latent knowledge: an epistemically honest ‘SmartVault’”** 2022
Alignment Research Center: Eliciting Latent Knowledge Proposal Competition
- **Graduate Teaching Assistantship** 2021-2024
University of Georgia College of Arts and Sciences
- **Merit scholarship** 2019-2020
Brandeis University Graduate School of Arts and Sciences
- **Laureates Summer Research Grant** 2017
Hillsdale College Department of Sciences
- **McQuiston Science Scholarship** 2014-2018
Hillsdale College Department of Sciences