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

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

SELECTED TALKS & PRESENTATIONS

- **"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

- **"Towards the Jones unknotting conjecture"** — 2023
  Graduate Student Seminar, UGA

- **"Summing HFK: a view from the 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
- **"In Search of an Equivariant Characterization of the Tropical Grassmanian $G_{tr}(2,4)$"** 2018
  Hillsdale College Department of Mathematics

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