

EDUCATION and EMPLOYMENT

PhD Mathematics University of Texas at Austin, supervised by Maggie Miller	2022 - present
Adjunct Instructor Anna Maria College, Paxton MA	2021 - 2022
MSc Mathematical Sciences University of Oxford, Master's thesis supervised by Jason Lotay Awarded with Merit	2020 - 2021
BS Mathematics and Physics Tufts University, undergraduate thesis supervised by Genevieve Walsh and Robert Kropholler Summa cum laude, Highest Honors in thesis	2016 - 2020

PUBLICATIONS and PREPRINTS

Equivariant concordance of periodic 2-knots in S^4 <i>Preprint. arxiv:2508.16778</i>	2025
Concordance of surfaces in 4-manifolds Joint with Aru Mukherjea <i>Preprint. Expository, based on lectures of Maggie Miller at the New structures in low-dimensional topology summer school in Budapest, 2024. To be included in a collection of notes from the summer school.</i>	2024

CONFERENCE and SEMINAR TALKS

Stanford topology seminar	Nov 2025
Rutgers topology seminar	Nov 2025
Rice topology seminar	Sep 2025
Trisectors workshop (lightning talk)	July 2025
Graduate Student Conference in Geometry and Topology (short talk)	Apr 2025

TEACHING

Graduate Teaching Assistant University of Texas at Austin, Mathematics <i>Honors differential equations with linear algebra</i> <i>Differential equations with linear algebra</i> <i>Multivariable calculus</i> <i>Calculus for business</i>	2022 - present <i>Spring 2025</i> <i>Fall 2023, Spring 2024, Fall 2024</i> <i>Spring 2023</i> <i>Fall 2022</i>
Adjunct Instructor Anna Maria College, Health Sciences <i>Calculus II*</i> <i>Pre-calculus*</i> <i>Physics II Laboratory instruction</i> <i>Numbers and Operations*</i> <i>*includes curriculum development</i>	2021-2022 <i>Spring 2022</i> <i>Spring 2022</i> <i>Spring 2022</i> <i>Fall 2021, Spring 2022</i>

Teaching Assistant Tufts University, Physics <i>Cosmology for the curious</i> <i>Optics and wave motion laboratory</i> <i>Lab setup for all introductory physics courses</i>	2017-2021 <i>Summer 2020</i> <i>Fall 2019</i> <i>2017 - 2019</i>
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Volunteer Teaching Assistant Petey Greene Program, Massachusetts Correctional Institute, Concord	Spring - Summer 2019
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SELECTED CONFERENCE ACTIVITY

Groups, Knots, and Manifolds (Cameronfest) Participant	Aug 2025 UQÀM, Montreal, Canada
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Trisectors workshop Participant and lightning talk speaker	June 2025 University of Texas at Austin, Austin TX
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New structures in low-dimensional topology Summer school and conference participant	June 2025 ICTP, Trieste, Italy
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Georgia International Topology Conference Participant	May 2025 University of Georgia, Athens GA
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Links in dimensions 3 and 4 Participant	May 2025 ICERM, Providence RI
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What's Your Trick? Conference Participant	Aug 2024 BIRS, Banff, Canada
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New structures in low-dimensional topology Summer school and conference participant	July 2025 Rényi Institute, Budapest, Hungary
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Fourier Institute Summer School in low-dimensional topology Participant	June 2024 Université Grenoble Alpes, Grenoble, France
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Combinatorial and Gauge theoretical methods in low-dimensional topology Participant	June 2024 Ennio De Giorgi Center, Pisa, Italy
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Georgia Topology Summer School and Conference Participant	May 2024 University of Georgia, Athens GA
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Texas Geometry and Topology Conference Participant	Nov 2023 Rice University, Houston TX
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Tech Topology Summer School Participant	July 2023 Georgia Institute of Technology, Atlanta GA
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Moab Topology Conference Participant	May 2023 Utah State University Moab campus, Moab, UT
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Tech Topology Summer School Participant	July 2021 Georgia Institute of Technology, Atlanta GA
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Park City Mathematics Institute Undergraduate summer school participant	July 2019 Park City, UT
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SERVICE

Lead Organizer, Directed Reading Program University of Texas at Austin, Mathematics	Spring 2025 - present
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Volunteer speaker, Sunday Morning Math Group University of Texas at Austin SMMG Program	November 2024
Organizer, Directed Reading Program University of Texas at Austin, Mathematics	Spring 2024 - Fall 2024
Mentor, Directed Reading Program University of Texas at Austin, Mathematics	Spring 2023, Summer 2023, Fall 2023, Fall 2024, Spring 2025, Fall 2025
Organizer, First Year (Sophex) Seminar University of Texas at Austin, Mathematics	2022-2023
Course Representative, Oxford Masters in Mathematical Sciences University of Oxford, Mathematics	2021-2022
President, Tufts Society of Physics Students Tufts University, Physics	2019-2020

AWARDS and HONORS

Ralph S. Kaye Memorial Prize Tufts University	2020
Donald A. Cowdery Memorial Scholarship Tufts University	2020
Howard Sample Prize Scholarship in Physics Tufts University	2018