Ian A. Sullivan

Ph.D. Student
University of California, Davis
Department of Mathematics

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Research Interests

I am interested in low-dimensional topology, Khovanov/Floer homology theories, and exotic 4-manifolds and knotted surfaces.

Education

September 2021 - Present	**University of California, Davis** Ph.D. in Mathematics Advisors: Melissa Zhang & Eugene Gorsky
September 2017 - June 2020	**University of California, San Diego** B.S. in Mathematics

Employment

September 2021 - Present	**University of California**, Davis, CA Associate Instructor and Teaching Assistant

Papers & Preprints

1. I. A. Sullivan, M. Zhang, *Kirby belts, categorified projectors, and the skein lasagna module of $S^2 \times S^2$*, (Submitted)

Research Talks

- Graduate Student Topology and Geometry Conference 2024, Michigan State University (April 2024)
- Geometry & Topology Seminar, UC Davis (February 2024)
- Student-Run Research Seminar, UC Davis (November 2023)
- Student-Run Research Seminar, UC Davis (October 2022)

Outreach and Professional Activities

- Co-hosted the UC Davis Student Run Research Seminar (2023-2024)

- Directed Reading Program, UC Davis Mathematics Department (2022-2023)
    Undergraduate project on Khovanov homology.

- BAMO Grading Team (March 2023)
    Graded for the 24th annual Bay Area Mathematical Olympiad.

- Directed Reading Program, UC Davis Mathematics Department (2021-2022)
    Undergraduate project on category theory and sheaves.

- Member of the UC Davis Spectra chapter.

Teaching Experience

- **Instructor of record:**
    - Math 16A: Short Calculus (Summer 2022)

- **Teaching Assistant:**
    - Math 150A: Abstract Algebra (Winter 2024)

    - Math 150A: Abstract Algebra (Fall 2023)

    - Math 108: Intro to Abstract Mathematics (Spring 2024)

    - Math 108: Intro to Abstract Mathematics (Winter 2024)