Abhishek Shivkumar

CONTACT

https://web.ma.utexas.edu/users/abhishek/   ashivkum@utexas.edu

EDUCATION

University of Texas, Austin   **2022–2028 (expected)**

Ph.D. in Mathematics, *advised by Lisa Piccirillo*
Studying smooth 4-manifolds and techniques for localizing exotic phenomena

University of California, Berkeley   **2017–2021**

Bachelor of Arts in Mathematics
High Honors in Mathematics and General Distinction in Scholarship
Honors Thesis: *Quantum Cohomology and Counting Curves*
     advised by Martin Olsson

AWARDS AND
HONORS

NSF GRFP Honorable Mention   **2023–2024**
UT Austin Provost's Graduate Excellence Fellow   **2022–2027**

PAPERS

Exotic $\mathbb{R}^4$'s with Compactly Supported Diffeomorphisms

arXiv: 2508.02017, 17 pages, August 2025

SERVICE AND
OUTREACH

Directed Reading Program Organizer   **Spring 2025–Present**
Coordinating program logistics, recruitment, and matching of participants across
multiple research areas

Bauer-Furuta Learning Seminar Organizer   **Spring 2025**
Weekly talks; see here for the schedule and content covered

K-theory Learning Seminar Organizer   **Fall 2023**
Weekly talks; see here for the schedule and content covered

Directed Reading Program Mentor   **Fall 2022–Present**
Worked one-on-one with students on guided reading projects as part of the UT
Austin Directed Reading Program
     Spring '25: Eric Osgood (Partitions and Generating Functions) and Mayank
     Gulecha (Elliptic Curves)
     Fall '24: Garrett Smith (Knot Theory), Alex Miller (Dynamical Systems), and
     Max Feldman (Combinatorics)
     Summer '24: Kishen Narayan (Elliptic Curve Cryptography)
     Spring '24: Audrie Ibañez (Knot Theory and Braids) and Kishen Narayan (El-
     liptic Curves)
     Summer '23: Randy Pham (Category Theory)
     Spring '23: Kishen Narayan (Analytic Number Theory)
     Fall '22: Kishen Narayan (Knot Theory)

Disabled Students' Program Notetaker   **Fall 2020**
Typeset and published class notes for a graduate course in Algebraic Number Theory.

TEACHING
EXPERIENCE

UT Austin
M427L Vector Calculus, TA   **Spring 2023; Fall 2025**
M341 Linear Algebra, TA   **Fall 2022**