

David Owen Horace Cutler

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Research interests

Complex geometry, metric geometry

Education

B.S. in Mathematics, Tufts University, expected May 2026

GPA: 4.0

Coursework:

Undergraduate

Real Analysis I
Real Analysis II
Harmonic Analysis
Abstract Algebra I
Abstract Algebra II
Topics in Algebra

Graduate

Analysis
Functional Analysis
Algebra II
Differential Forms in Algebraic Topology
Differential Geometry

Publications

The Hausdorff distance and metrics on toric singularity types (with A. Aitokhuehi, B. Braiman, T. Darvas, R. Deaton, P. Gupta, J. Horsley, V. Pidaparthi, J. Tang), preprint, arxiv:2411.11246

Program participation

UMD REU, convex and complex geometry with Professor Tamas Darvas, June – July 2024

DIMACS REU, complex geometry with Professor Chi Li, May – July 2025

UCSD research mini-course, complex geometry, July 2025

Teaching experience

Real analysis, teaching assistant and grader, September 2023 – December 2024

Differential equations, grader, January 2025 – present

Reading groups

Geometric group theory with Professor Nima Hoda, February 2025 – present

Awards and honors

Martin Guterman Award, April 2024

Goldwater Scholarship, March 2025