

David Owen Horace Cutler

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Education

Tufts University

Sept. 2022 – present

BS in Mathematics

- GPA: 4.0/4.0
- **Coursework:** Real Analysis I, Real Analysis II, Analysis*, Functional Analysis*, Harmonic Analysis, Abstract Algebra I, Abstract Algebra II, Algebra II*, Topics in Algebra, Algebraic Topology, Differential Geometry*, Type Theory and Category Theory*, Philosophy of Mathematics

(* denotes graduate level coursework)

Experience

Undergraduate Researcher

College Park, MD

University of Maryland

June 2024 – July 2024

- Participated in research on the interactions between complex and complex geometry with Professor Tamás Darvas and some fellow undergraduates.
- Proved many novel results, culminating in a paper.
- Presented research at multiple conferences, including the AMS-MAA-SIAM special session on undergraduate research at JMM 2025.

Real Analysis Grader/TA

Medford, MA

Tufts University

Sept. 2023 – present

- Served as the primary grader for the first class in Tufts' undergraduate real analysis sequence, grading the majority of each weekly problem set.
- Hosted weekly office hours and practicums.
- Voluntarily and independently held small tutoring sessions, as well as exam review sessions.

Publications

The Hausdorff distance and metrics on toric singularity types

Nov. 2024

A. Aitokhuehi, B. Braiman, *D. Cutler*, T. Darvas, R. Deaton, P. Gupta, J. Horsley, V. Pidaparth, J. Tang

preprint, [arxiv:2411.11246](https://arxiv.org/abs/2411.11246) [↗](#)

Awards

Martin Guterman Award

Medford, MA

Tufts University

April 2024

- Awarded to the first or second-year student at Tufts University with the highest academic achievement in math.

Additional Skills

Languages: English, Danish, Mandarin Chinese (limited proficiency)

Programming Languages: Python, Rust, and \LaTeX