

# David Owen Horace Cutler

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## Education

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### Tufts University

Sept. 2022 – present

*BS in Mathematics*

- GPA: 4.0/4.0
- **Coursework:** Discrete Mathematics, Linear Algebra, 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\*

(\* denotes graduate level coursework)

## Experience

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### 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 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

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### 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. Pidaparthi, J. Tang

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

## Awards

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### 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

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

**Programming Languages:** Python, Rust, and  $\text{\LaTeX}$