

# COLE DURHAM

10486 Devay Road ◊ North Rose, NY 14516  
(+1)315-741-6103 ◊ cdurham2@u.rochester.edu

## EDUCATION

---

**University of Rochester, Rochester, NY**  
**Cumulative GPA - 3.76**

*August 2017 - May 2021*

**Honors Bachelor of Science, Mathematics; Major GPA - 3.7**

Core Coursework: Honors Introduction to Abstract Algebra I-II, Honors Real Analysis, Boundary Value Problems, Honors Topology, Complex Analysis, Differentiable Manifolds, Algebraic Topology.

**Bachelor of Arts, Physics; Major GPA - 3.95**

Core Coursework: Classical Mechanics, Quantum mechanics, Electricity & Magnetism, Thermodynamics & Statistical Mechanics, Physics of Finance.

**Spanish Language Minor; Minor GPA - 3.93**

## TECHNICAL STRENGTHS AND SKILLS

---

<b>Modeling and Analysis</b>	SageMath, AutoCad, Igor, Mathematica, Capstone
<b>Software &amp; Typesetting</b>	MS Office, Latex
<b>Languages</b>	English (Primary), Spanish (Secondary, Functionally fluent)

## WORK OR RESEARCH EXPERIENCE

---

**Mathematics Department, University of Rochester**  
*Teaching Assistant*

September 2020 - Present

- TA for undergraduate multivariable calculus course; TA for undergraduate abstract algebra course.

**Varsity Tutors, Tutoring Company**  
*Tutor*

June 2020 - Present

- Develop a rapport with students, help them achieve their learning goals. Write lesson plans suited to the needs of each student.

**Mathematics Department, University of Rochester**  
*Voluntary Research Student*

May 2020-May 2021

- Attempt to find Ricci-flat metric on compact Calabi-Yau manifold. Use computer technology to study non-flat Fubini-Study metric, angle of intersection of special Lagrangian submanifolds. Study topological conditions for almost symplectic structure on 8-manifolds.

**Biology Department Stockroom, University of Rochester**  
*Stockroom Assistant*

September 2018 - January 2020

- Support the faculty and staff of the department in any way possible by attending to research needs, transferring equipment and shipments to specified laboratories, and decommissioning laboratories.

## INVOLVEMENT IN OUTREACH

---

**Association for Women in Math, University of Rochester Chapter**  
*Organizer*

October 2020 - Present

- Initiator and member of local chapter, advocating for increased female representation in mathematics. Host math talks, luncheons, collaborative workshops.

**National Association of Mathematicians**  
*Member*

August 2020 - Present

- Member of organization whose mission is to support underrepresented minorities in mathematical sciences. Participated in MathFest 2020.

## ACADEMIC ACHIEVEMENTS & SCHOLARSHIPS

---

Bausch & Lomb Honorary Science Award, Scholarship

NYS Higher Education Scholarship for Academic Excellence

Dean's List ( $\text{GPA} \geq 3.4$ ) at the University of Rochester (2017 fall - 2018 spring; 2020 spring).

Member of Sigma Pi Sigma, Physics Honor Society, University of Rochester Chapter