
Ethan Levy

Physics Undergraduate, University of Maryland College Park

(301)-655-1775

ethan9000@outlook.com

eleve127@umd.edu

levypedia.com

Key Overview

Junior at the University of Maryland in the physics department with a minor in sustainability. Previously interned as a theorist in supersymmetry with a paper in publishing. Looking to work with a knowledgeable mentor in the physical sciences to conduct research and experience with applicable computer simulation and data analysis. I also travel to regenerative farms around the continent to learn about improvements in sustainable renewable agriculture.

SKILLS

- Project planning and management
- Logical reasoning, data analysis, creative problem solving
- Experienced in Python, Matlab, HTML5
- Tutor in high school STEM subjects and English
- Italian, Spanish - Conversational fluency

EXPERIENCE

Supersymmetry Theoretical Research, College Park - *Scientific Researcher*

JUNE 2022 - Present

- Accepted into SSTPRS Theoretical REU with physicist and professor S. James Gates Jr. Studied linear algebra, clifford algebra, Dirac matrices, Lie algebra, Differential Geometry, dimensional analysis, Quantum Field Theory, Hamilton's Principle
- Continuing research presently on the closure of the Complex Linear Supermultiplet (CLS). Publishing in progress.
- Created a new graphical representation called the Up-Only Adinkra

Konstantine's Greek Taverna, Highland - *Waiter*

NOV 2019 - JAN 2022

- Attend to all needs and wants of the patron, while providing them with a vibrant Greek dining experience

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- Maintain table cleanliness, communicate with staff and customers effectively

UMD Student Facilities Fund UG Representative, College Park - *Committee Member*

SEPT 2022 - Present

- Analyzed proposals for projects aimed at improving student life across campus
- Helped organize voting for each proposal to receive funding

EDUCATION

University of Maryland, College Park - *Bachelor of Science*

SEPT 2020 - Present

- College Park Global Scholar: Science and Global Change
- Undergraduate student in Physics with a minor in Sustainability
- GPA: 3.56 on a 4.0 scale

International Studies Institute (ISI), Firenze, Italy - *Bachelor of Science*

FEB 2022 - APR 2022

- Physics-in-Florence participant
- Visited VIRGO, gravitational wave detector in Pisa, IT

Sherwood High School - *Ashton, Maryland*

SEPT 2016 - June 2020

- Calculus I & II
- Physics - Mechanics and Relativity
- GPA: 3.6

AWARDS AND HONORS

- ❖ **Eagle Scout** - March 2019
- ❖ **Dean's List** - University of Maryland - Fall 2021
- ❖ Awarded **Best Presentation** in the 2021 UMD Data Challenge
- ❖ Won **3rd Place** in the Northrop Grumman Mission Systems Innovation Challenge 2021
- ❖ Won **2nd Place** in Placehack 2023
- ❖ **President's Award** - Sherwood High School - June 2020
- ❖ **Founder** of the Physics Club - Sherwood High School
- ❖ Member and **Tutoring Chair** - National Honor Society