
Ethan Levy

Physics Undergraduate, University of Maryland College Park

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Key Overview

Senior 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 in topological photonics, focusing on using synthetic dimensions to emulate fundamental physics.

SKILLS

- Project planning and management
- Logical reasoning, data analysis, creative problem solving
- Experienced in Python, Matlab, Ansys Lumerical, Comsol Multiphysics
- Tutor in University Physics
- Italian, Spanish - Conversational fluency

EXPERIENCE

Joint Quantum Institute (JQI), College Park - *Scientific Researcher*

JUNE 2023 - Present

- Under Dr. Mohammed Hafezi. Designed, executed, and analyzed simulations related to topological photonics and light-matter interactions

Supersymmetry Theoretical Research, College Park - *Scientific Researcher*

JUNE 2022 - Present

- Accepted into SSTPRS Theoretical **REU** with physicist Dr. S. James Gates Jr.
- Continuing research presently on the closure of the Complex Linear Supermultiplet (CLS). Publishing in progress.

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

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

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: 3.58 on a 4.0 scale
- Teaching Assistant: PHYS105 (Fall 2022)
- Teaching Assistant: PHYS132 (Spring 2023)

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

AWARDS AND HONORS

- ❖ **Eagle Scout** - March 2019
- ❖ Angelo Bardasis Memorial Scholarship **Recipient**
- ❖ **Dean's List** - University of Maryland - Fall 2021/Spring 2023
- ❖ 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
- ❖ **Founder** of the Physics Club - Sherwood High School
- ❖ Member and **Tutoring Chair** - National Honor Society