

# Lucas Rhode

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## EDUCATION

### Stony Brook University

Stony Brook, NY

*Bachelor of Engineering in Electrical Engineering*, Cumulative GPA 3.610/4.0

May 2028

**Relevant Coursework:** Physics I: Honors, Multivariable Calculus with Linear Algebra, Machine Learning

**Awards:** Simons STEM Scholar

- 1 of 50 selected for fully-funded initiative supporting underrepresented STEM students through intensive academic and research opportunities

### White Plains Senior High School, White Plains, NY

September 2020 - June 2024

Cumulative GPA (*Unweighted*) 3.986/4.0 ACT Score: 35

## RESEARCH EXPERIENCE

### Quantum Engineering and Photonics (QEP) Group

Stony Brook, NY

*Undergraduate Research Assistant*

September 2024 - PRESENT

- Conducting quantum network simulations using QuantumSavory.jl to explore photon-spin interactions.
- Contributed to weekly group presentations on quantum network theory and practical applications
- Working under Dr. Hyeonrak Choi in the development of a graphical user interface (GUI) to enhance simulation workflows.

### Quantum Materials Group (<https://you.stonybrook.edu/qiangli/group-2/>)

Stony Brook, NY

*Undergraduate Research Assistant*

September 2024 - PRESENT

- Working under Dr. Qiang Li, investigating quantum materials, particularly NbSb<sub>2</sub>, with a focus on XRD refinement and other experimental techniques.
- Assisting in experimental setup, sample preparation, and data analysis for material characterization.

## PROFESSIONAL EXPERIENCE

### Mathematical Modeling at Mercy University

Dobbs Ferry, NY

*Teacher Assistant (Paid)*

June 2023 - August 2023

- Served as a Teacher Assistant for the M3C Young Scholars Program, coaching high school students in mathematics from trigonometry to calculus through one-on-one tutoring, study groups, and project guidance.
- Graded assignments and provided constructive feedback to support student learning and improve mathematical understanding.
- Organized and led a field trip to the American Museum of Natural History and supervised a student team on a project exploring the mathematics of scuba diving.

### LifeTime Fitness

Harrison, NY

*Facility Operations Team Member*

July 2023 - June 2024

- Ensured cleanliness and sanitation of the facility
- Delivered excellent customer service to club members

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

### Seawolf Philanthropy Council

Stony Brook, NY

*Vice Chair of Research & Analysis*

September 2024 - PRESENT

- Supporting initiatives such as Giving Day and the Senior Class Gift through data-driven research and analysis.
- Collaborating with council members to guide fundraising strategies and enhance engagement in philanthropic efforts.

### Citizens University Youth Collaboratory

Remote/Across the Country

*Civic Engagement Fellow*

Fall 2022 - Fall 2023

- Collaborated in biweekly discussions over Zoom focused on youth leadership and community involvement.
- Attended fully funded workshops in Chicago, DC, & Boston to develop leadership skills and develop civic knowledge

## TECHNICAL SKILLS

**Languages/Frameworks:** Python, C, C++, Julia (QuantumSavory.jl), MATLAB, LaTeX, HTML

**Tools:** SolidWorks(CAD), Visual Studio, Jupyter Notebooks, SPICE Simulation, QuantumSavory.jl

## AFFILIATIONS

**Affiliations:** VIP Rocket Launch Team, VIP Solar Racing Team, AI Community