

Lucas Rhode

646-262-0761 | l.x.rhode@gmail.com | <https://lucashrhode.github.io/>

EDUCATION

Stony Brook University | Stony Brook, NY

June 2024 - May 2028

Bachelor of Engineering in Electrical Engineering, Cumulative GPA 3.65/4.0

Relevant Coursework: Physics I: Honors, Differential Equations with Linear Algebra, Machine Learning, Pathways to STEM PhD

Awards: Simons STEM Scholar

- 1 out of 50 selected out of a pool of 1000+ candidates for fully-funded initiative supporting underrepresented STEM students through intensive academic and research opportunities
- Awarded full 4 year scholarship (tuition, housing, meals, book stipend)

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

September 2024 - Present

Undergraduate Research Assistant

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

QuEST Project - Science Education Research | Stony Brook, NY

January 2025 - Present

Undergraduate Research Assistant (Paid)

- Conducting research under Dr. Angela Kelly on student motivation in quantum science and physics education.
- Performing a literature review on accessibility and engagement in STEM fields.
- Interviewing young men who recently attended a QIST camp to analyze their motivations and experiences.
- Conducting statistical analyses on survey and interview data to identify trends in STEM accessibility and interest.

PROFESSIONAL EXPERIENCE

Mathematical Modeling at Mercy University | Dobbs Ferry, NY

June 2023 - August 2023

Teacher Assistant (Paid)

- 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

July 2023 - June 2024

Facility Operations Team Member

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

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Seawolf Philanthropy Council | Stony Brook, NY

September 2024 - Present

Vice Chair of Research & Analysis

- 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 (Chicago, DC, Boston)

Fall 2022 - Fall 2023

Civic Engagement Fellow

- 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, MATLAB, LaTeX, HTML, SolidWorks(CAD)

AFFILIATIONS

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