# EDUCATION

**Doctor of Philosophy in Science Education, 2022**
**State University of New York at Buffalo - Buffalo, NY**
Dissertation: Culturally Responsive Science Communication
Awards: Arthur A. Schomburg Fellowship, SUNY Chancellor’s Award for Student Excellence

Master of Arts in Biology, 2017
**State University of New York at Buffalo State - Buffalo, NY**Thesis: Immunological Strategies to Study Caenorhabditis elegans ER Chaperone GRP170

Bachelor of Arts in Biology, 2014
**State University of New York at Buffalo State - Buffalo, NY**
Capstone: Measurements of Soil Microbial Activity under Environmental Stress

# PROFESSIONAL CAREER

Executive Director, 2023- Present
**The Science Haven – Washington, D.C.**

* Lead this non-profit organization in promoting scientific literacy and accessibility, with a particular focus on underrepresented communities.
* Develop and oversee programs that provide hands-on STEM learning experiences, offering youth the chance to explore scientific concepts in a supportive and engaging environment.
* Foster partnerships with schools, community organizations, and corporations to expand program reach and impact.
* Manage a diverse team of volunteers, ensuring effective program delivery and high levels of participant satisfaction.
* Led the Stellar Dreams project as Executive Director of The Science Haven, providing astronomical resources and education to 100 families across the USA.

Science Communications Strategist, 2018- Present
**Dr. Raven the Science Maven – Alexandria, Virginia**

* Combine my deep understanding of molecular biology with my skills in science communication to develop and deliver dynamic, engaging, and inclusive biology-related information across multiple platforms.
* Work with clients to build, maintain, and enhance their science-centered communication and brand strategy.
* Conduct culturally responsive outreach campaigns, activities, and special events, significantly increasing public engagement in scientific topics.
* Collaborate with corporate brands like Olay, Regeneron, and 3M to communicate intricate biological concepts and promote STEM education.
* Advise on culturally responsive biology education strategies for organizations including the White House, United Nations, and NASA.

Biology Lecturer and Academic Advisor, 2017-2019
**Buffalo State University – Buffalo, New York**

* Leveraged my combined expertise in molecular biology and science education to mentor 400+ undergraduate students across various scientific disciplines.
* Collaborated with university administration to create inclusive learning environments catering to diverse learning styles.
* Pioneered the use of technology and social media in classrooms, significantly enhancing student engagement.
* Honored with the Faculty of Excellence award in 2018 and invited as commencement speaker at the 151st graduation ceremony in 2023.

Adjunct Professor in Biology Lecturer, 2016-2018
**SUNY Erie Community College – Buffalo, New York**

* Implemented comprehensive instruction in microbiology and human biology for a diverse student population, integrating my knowledge of molecular biology with innovative teaching methods.
* Introduced interactive lectures and culturally relevant laboratory experiences, boosting student engagement and critical thinking.
* Successfully integrated a non-traditional assessment style into the curriculum, enhancing educational quality and accommodating diverse learning styles.

Research Scientist I Cell & Molecular Biology – Lead Drug Discovery, 2016-2018
**Albany Molecular Research, Incorporated – Buffalo, New York**

* Part of a team effort to develop a novel manufacturing protocol for a 400kDa protein, contributing to innovative research on neurodegenerative diseases.
* Generated new cell lines for protein production and designed protocols for high-throughput drug discovery, streamlining the process and increasing the rate at which potential treatments could be identified and tested.
* Developed a comprehensive understanding of in-vitro model development and optimization, leading to improved research processes and significant advancements in the study of complex diseases.

# SELECTED AWARDS and HONORS

Science Communication Award, 2023 **Graduate Women in Science (GWIS)**
Acknowledges individuals who excel in promoting public understanding of science, engaging diverse audiences, and effectively communicating complex scientific concepts to a broad audience.

Anthem Award, 2023 **The Anthem Awards**
Recognizes individuals who have made an outstanding impact on society through their dedication, innovation, and leadership in areas such as education, science, and social progress.

Forbes 30 Under 30 Honoree, 2022 **Forbes Magazine**An annual list that features top young innovators, entrepreneurs, and leaders who are transforming industries and shaping the future across various fields, including science, technology, and education.

EBONY Power 100 Honoree, 2022 **EBONY Magazine**
An annual list that highlights outstanding leaders across a variety of fields and disciplines from business, STEM, sports, media, activism and music to entertainment and more.

Woman of Distinction Award, 2022 **American Association of University Women**
Celebrates the accomplishments of women who have made significant contributions to gender equity, social justice, and the advancement of women's rights in their respective fields.

Fortune 40 Under 40 Honoree, 2021 **Fortune Magazine**
A prestigious list highlighting the most influential young people in business, technology, science, and other sectors who are driving change and making an impact in their industries.

Chancellor's Award for Student Excellence, 2020 **The State University of New York**
Recognizes students who demonstrate a combination of academic excellence, leadership, campus involvement, and community service, representing the highest levels of achievement among SUNY students.

Asteroid Award for Diversity and Inclusion in Science Communication, 2022 **The Outpost**
Honors individuals who have made exceptional contributions to promoting diversity and inclusion within the field of science communication, inspiring underrepresented communities to engage with and pursue careers in STEM fields.

# INVITED TALKS and KEYNOTES

* Host of the International Space Station Research and Development Conference, 2023
* Buffalo State University Commencement Address, 2023
* The Walt Disney Company Keynote, 2023
* STEMcx Keynote, 2023
* University of Wisconsin Oshkosh Keynote, 2023
* Adelphi University Research Day Keynote, 2022
* UC Berkeley Beyond Academia Keynote, 2022
* Harvard University Science Communication Panel, 2022
* Princeton University Distinguished Lecturer, 2022
* Gairdner Awards Panel Moderator, 2022
* Marshall University Keynote, 2022
* Phi Sigma Rho National Conference Keynote, 2022
* National Science Teachers Association National Conference Closing Keynote, 2022
* National Parent Teachers Association National Conference Keynote, 2022
* RTI International Distinguished Speaker, 2021
* University of Minnesota Women in STEMM Summit Keynote, 2021
* VOICES 2021 Keynote, 2021
* Penn State Graduate Women in Science Keynote, 2021
* UC Berkeley Expanding Your Horizons Keynote, 2021
* Summer Institute for Climate Change Education Keynote, 2021
* Association of Medical Illustrators Conference Keynote, 2021
* Alliance for Diversity in Science and Engineering Community College Panel, 2020
* TEDx Talk, 2020

**PROFESSIONAL REFERENCES**

Ronald S. Gamble, Jr., Ph.D.

Theoretical Astrophysicist
NASA Goddard Space Flight Center

University of Maryland—College Park

Center for Research Exploration in Space Science & Technology

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