

CURRICULUM VITAE

GIANNI SIMS

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EDUCATION

PhD in Physics

Florida Atlantic University, Boca Raton, FL

August 2021 - Present

B.S. Astrophysics Major with Philosophy Minor

The Pennsylvania State University, State College, PA

August 2017 - May 2021

High School Diploma in Vocal

Fiorello H. LaGuardia High School of Music and Art and Performing Arts, New York, NY

June 2017

RESEARCH EXPERIENCE

Florida Atlantic University – Boca Raton, FL

Research Assistant with Dr. Vicki Sarajedini

May 2022 – Present

- The multiwavelength study of Active Galactic Nuclei (AGN), the variability properties of AGN, supermassive black hole accretion and accretion disk physics, host galaxy morphologies.
- Studying galaxy candidates with AGN's from various surveys and understanding its relation to supermassive black hole growth

The Pennsylvania State University – University Park, PA

Undergraduate Research Assistant with Dr. Martin Bojowald

October 2018 – May 2021

- Gathered information on loop quantum gravity
- Summarize, interpret, and gathered information
- Consulted and theorized findings with research professor
- Calculated the equations of motions from Poisson's brackets
- Treating quantum fluctuations as small perturbations and create space-time model mathematically describe quantum fluctuation
- Currently pre-published a copy of the research paper

The Intrepid Museum – New York, NY

Research Intern with Dr. Jennifer Haghpanah

December 2016 – June 2017

- Team member of a college-level research group.
- Conducted experiments and recorded research.
- Participated in planning meetings.
- Performed online research: into food chemistry comparing two proteins used in food (Bovine Albumin Serum and Casein) and effects on spices.

WORK EXPERIENCE

Onaketa Tutors

August 2022 - Present

Mid-Level Math Tutor

- Tutoring mid-level math courses online towards undeserved students of color.
- Mentoring under-served students of color to encourage their goal in mastering STEM topics.

Florida Atlantic University – Boca Raton, FL

August 2021 - Present

Laboratory Teaching Assistant

- teaching General Physics Lab 1 (Physics 2048L) and General Physics Lab 2 (Physics 2049L) courses
- provide 30 minute lecture before students perform experiments
- grade various assignments including lab reports and quizzes
- assessing student performances

The Pennsylvania State University – University Park, PA

August 2020 - May 2021

Resident Assistant

- assist and engage with residents to develop a meaningful community
- educate residents about their role to abide by university regulations and policies
- Understand, abide by, and enforce all University regulations and policies in a fair and consistent manner.
- Conduct rounds of the assigned housing area in accordance with protocol.

The Pennsylvania State University – University Park, PA

June 2020 - August 2020

LEAP Mentor

- Mentors plan social and academic virtual programming for their pride throughout the summer.
- Attend weekly virtual staff meetings, participate in evening and weekend virtual activities, attend one information session and attend mandatory Summer Mentor Training from June 25-28.

The Intrepid Museum – New York, NY

May 2019 - August 2019

Membership Intern

- Assisting Membership team with day to day activities, including members-only events, Box Office assistance, and programs during Museum festivals.
- Working with IA Coordinator on data cleanup in our database, Tessitura.

The Intrepid Museum – New York, NY

June 2018 - July 2018

Special Events Intern

- Assist with the coordination of office organizational projects including inventory management while updating current team templates, event folders and digital files
- Provide administrative support for the Event Sales Managers in the following areas: telephone calls, emails and filing research on venues, new vendors, potential clients, trends and other subjects as needed

The American Museum of Natural History – New York, NY

November 2015 - August

2017

SALTZ Intern

- Presented and explained museum artifacts to visitors.
- Conducted experiments and explained outputs to visitors.

HONORS AND AWARDS

ARISTA National Honors Society, Fiorello H. LaGuardia High School of Music and Art and Performing Arts 2017
Japanese Honors Society, Fiorello H. LaGuardia High School of Music and Art and Performing Arts 2015

SCIENTIFIC TALKS

Conferences Attended

NEXUS Workshop through the National Society of Black Physicists (August 2022)
Advancing Graduate Leadership Conference (August 2022)
The Conference for Undergraduate Underrepresented Minorities in Physics (January 2021)
The Conference for Undergraduate Women in Physics (January 2020)
The National Society of Black Physicists (November 2019, November 2021)

Colloquium

Panelist for the Colloquium from the Physics and Astronomy for Women's Club (PAW+) and the Climate Committee (September 2020)

EXTRA-CURRICULAR

Member of **The National Society of Black Physicists**, member of NeXus September 2021-Present
Professional Development Chair of **The Physics and Astronomy for Women Club (PAW +)**, The Pennsylvania State February 2020 - May 2021
Member of **Creative Writing Club**, The Pennsylvania State January 2019 - May 2021
Co-President of **The Scientific Method Club Workshop Leader**, LaGuardia High School September 2015 - June 2017

VOLUNTEER

Middle School Math Tutor, New York Cares January 2020
Beautifier of Inwood Park, New York Cares July 2018, May 2019
Career Fair Helper, Penn State August 2017
Expeditor, Susan G. Komen September 2016
Meal Server, New York Cares March 2016 - April 2016

TECHNICAL SKILLS

Python,Mathematica, C/C++, L^AT_EX