

Moisés Reyes

Post-Baccalaureate
Researcher in the Department
of Chemistry, School of Arts
and Sciences, Rutgers
University - Newark

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Education

Rutgers University - Newark Newark, NJ

School of Arts and Sciences Sept. 2019 – May 2024
Major GPA: **3.919**; Cumulative GPA: **3.690**

Member of the Educational Opportunity Fund program; XAE, HI

- B.A. in Chemistry
- Minor in Music
- Minor in Cell & Molecular Biology

Belleville High School Belleville, NJ

Class of 2019 Sept. 2015 - Jun. 2019

- Tri-M Music Honor Society

Undergraduate Coursework

Undergraduate Courses:

- Physical Chemistry I & II, Physical Chemistry Lab, Inorganic Chemistry I & II, Inorganic and Materials Lab, Organic Chemistry I & II, Organic Chemistry Lab, University Physics I & II, Physics I & II Lab, Analytical Chemistry, Experimental Analytical Chemistry, General Chemistry I & II, General Chemistry I & II Lab.
- Cell Physiology & Imaging, Biochemistry, Cell Biology, Molecular Biology, Foundations: Ecology & Evolution and Lab, Foundations: Cell & Molecular and Lab, Concepts in Biology.
- Multivariable Calculus, Calculus I & II, Linear Algebra.
- Advanced Theory and Composition, Music Theory I & II, World Music, Piano, Guitar.

Graduate Courses:

- Hybrid Biomaterials, Biomolecular Design and Nanotechnology

Research Experience

Rutgers University - Newark Newark, NJ

Undergraduate Research Assistant Sept. 2022 - Present

- Biomolecular Design Lab in Nanotechnology and Nanostructures

Worked with Ph.D. and Postdoctoral researchers in familiarizing

myself with their projects, making staple pools and samples, and setting up agarose and PAGE gels.

- Principal Investigator: Dr. Fei Zhang

Summer Undergraduate Research Fellowship

Newark, NJ

Summer 2023

- Took on my own role within a new project and presented findings to PI and Dean of the School of Arts and Sciences
- Principal Investigator: Dr. Fei Zhang

Post-Baccalaureate Research Assistant

Newark, NJ

June 2024 – Present

- Continued research from previous semesters

Teaching Assistant & Tutoring Experience

Teaching Assistant - Gen. Chem. I, II Lab

Rutgers University - Newark

Five Semesters

Sept. 2021 - Dec. 2023

- Demonstrated the lab procedure for 11-12 students and observed them as they performed the lab.
- Offered office hours for students to help with concepts and arithmetic related to the topics they learned in lab/lecture.

Tutoring Experience

- Experience with General Chemistry I & II, Organic Chemistry II, Calculus I, II, & III, and University Physics I & II
- As many as 2-5 unique students per subject for the physical sciences courses, or 1-2 for the mathematical courses.

Poster Presentations

Designing and Testing of DNA Nanostructures for RNA inhibitor Delivery

Rutgers University - Newark

April 2024

- **Moisés Reyes**, Henry Wisniewski, Maciej Jeziorek, Dr. Jean-Pierre Etchegaray, Fei Zhang*
- In collaboration with the Department of Biology at Rutgers - Newark; Dr. Jean-Pierre Etchegaray
- Awarded honorable mention recognition for presentation execution.

Awards and Scholarships

Anna and Bernard Z. Senkowski Scholarship

Rutgers University - Newark

September 2023

- Awarded annually to a chemistry major, based on GPA and financial need.

James Ramsey Endowed EOF Fund

Rutgers University - Newark

February 2024

- Awarded to full-time undergraduate EOF students attending NCAS and/or UC-N as supplemental funds.

Summer Undergraduate Research Fellowship

Rutgers University - Newark

June 2023

- Competitive program that provides a stipend to undergraduate

students engaged in scholarly or creative activities during the summer months under the supervision of a full-time faculty member in the School of Arts & Sciences-Newark.

Student Research Showcase – Undergraduate Honorable Mention Award

Rutgers University - Newark April 2024

- For exceptional scholarly work contributing to the literature in the field, professional demonstration of novel ideas, and effective delivery of concepts to diverse populations.

Outstanding Academic Achievement Award

Rutgers University - New Brunswick April 2024

- Awarded by the State of New Jersey, Office of the Secretary of Higher Education EOF to students in exceptional academic standing; determined by GPA.

**Clubs, Organizations,
and Programs**

**Peruvian American Cultural Association
Newark, NJ**

Position: President Nov. 2023 – May 2024

- Organization founder
- Founded the organization with the mission of sharing Peruvian culture on campus and leaving a legacy.
- Planned and executed events that taught members about Peruvian culture and created a sense of community for Peruvian Americans and the Latin Americans alike.

Position: Faculty Advisor Sept. 2024 – Present

- Trained and advised the new executive board for the 2024-`25 academic year.
- Help in hosting and/or running meetings to plan semester events
- Assist in hosting and organizing campus wide events

**Chi Alpha Epsilon (XAE)
Newark, NJ**

Eta Gamma Chapter (HG) May 2022 – May 2024

Position: Vice President

- National Honor Society for the Educational Opportunity Fund program.
- Society promotes high academic standards and honors the academic excellence achieved by students admitted to college through non-traditional means like EOF.
- 1 of 15 inductees for Spring 2022 invitation cycle.

**Educational Opportunity Fund
Newark, NJ**

Rutgers University - Newark Jul. 2019 - Present

- ASI Class of 2019
- Program for students from educationally and economically disadvantaged backgrounds

**Wind Ensemble
Newark, NJ**

New Jersey Institute of Technology Feb. 2020 – May 2024

- Played a variety of parts for B \flat Clarinet and Bass Clarinet to perform in winter and spring concerts.

- Written arrangements for Quartets and Quintets to be performed at concerts.

Physics Club

Newark, NJ

Rutgers University - Newark

Sept. 2022 – May 2024

Position: Treasurer

- Organization co-founder
- Coordinate member exclusive events/trips to museums and dark sky regions.
- Participate in and contribute to discussions on current topics in physics, astronomy, and cosmology to stay up to date with the world of science and to continue learning outside of the classroom.
- Organized a couple of star gazing nights for anyone interested. We set up telescopes and cameras for people to get close views of near and far celestial objects all while educating participants on intriguing concepts and how the equipment works.

Laboratory Experience

Experimental Techniques:

- Brightfield and Fluorescence Microscopy, Gel Electrophoresis, Centrifugation, purification, Paper/TLC/Column Chromatography, PCR, Atomic Absorption Spectroscopy, UV-Vis Spectroscopy, Nanodrop, Atomic Force Spectroscopy, Titration, Fluorescence Spectroscopy, Circular Dichroism Spectroscopy.