

Kerely Lorenzo Méndez

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OBJECTIVE

Diligent, responsible, and passionate biology student with research and community engagement experience aiming to amplify knowledge in the medical campus through an admission to school of medicine.

QUALIFICATIONS

- Experienced in community participative and laboratory based research.
- Skilled in data analysis tools like R and GalaxyTrackr.
- Effective communicator, leader, and group collaborator.

EDUCATION

Bachelor of Science (BS), Biology emphasis in Biomedical Sciences **2019-expected May 2023**

University of Puerto Rico, Aguadilla Campus- Aguadilla, Puerto Rico

Honor's Student's Program

2019-present

University of Puerto Rico, Aguadilla Campus

EXPERIENCE

Shadowing with Dr. Carlos Muñiz Molineri

2022

Experience 12 hours of shadowing Dr. Muñiz while attending elderly patients at Hogar Divino Amanecer in San Sebastián, Puerto Rico.

University of Texas Rio Grande Valley/School of Medicine

2021-2022

Rio Grande Valley Alzheimer's Disease Resource Center for Minority Aging Research

Research Assistant

Research Focus: Assessing neighborhood physical disorder in Texas

- Serve as volunteer virtual audit rater to ensure that the Rio Grande Valley is represented in national and international efforts of space-based research addressing well-being in these neighborhoods.

Farmacia Juncal- San Sebastián, Puerto Rico

2021-present

Part-time worker/cashier

- Organizing merchandise daily.
- Working closely with clients from the community of Barrio Juncal.
- Delivery of medicines to elderly patients from the community.

University of Puerto Rico-Aguadilla, Puerto Rico

2021

Educational Intervention on Environmental Health: Breast Cancer Risk Factors

Research Staff

Research Focus: Educate communities on the west side of Puerto Rico through an educational intervention on environmental risk factors related to Breast Cancer using science takeout kits.

- Developed a research investigation to educate a community on the Environmental Risk Factors of Breast Cancer along with my fellow research partners.
- Evaluated if Breast Cancer risk factors were a theme of interest for the community.
- Established the effectiveness of science takeout kits to educate the community on Breast Cancer.
- Acquired and analyzed data in Excel to evaluate the knowledge acquired by the participants through the analysis of pretests and posttests

Pennsylvania State University- State College, Pennsylvania

Summer 2021

USDA REEU Summer Research, Food Science Department

Research Staff

Research Focus: Characterized the probiotic potential of different wine yeasts, *Pichia spp.*, compared to the commercial strain *Saccharomyces boulardii*.

- Analyzed research papers through extensive literature review.
- Designed a research investigation to analyze probiotic potential of yeast species by establishing a protocol for each of the four tests done on *Pichia spp.* species
- Analyzed and interpreted data from each test performed on yeasts using Excel, R analysis, and GalaxyTrackr.
- Developed critical analysis skills through troubleshooting procedures.
- Learned how to design primers by using NCBI database.
- Presented research investigation in symposium.

EXTRACURRICULAR ACTIVITIES

Laboratory experience in Microbiology, Molecular Biology, and Genetics

2019-present

Developing skills including: effective microscope use, inoculation of organisms, media prep, simple and Gram staining of organisms, Gel Electrophoresis, PCR, Nanodrop, and DNA extraction.

Interviewed for Penn State University News- State College, Pennsylvania

July 2021

Lorenzo, Kerely. Interviewed by Jack Ouligian. Penn State's Department of Food Science, Discovery Space Partner on outreach. September 9, 2021.

Discovery Space Outreach - State College, Pennsylvania

June 2021

Educated campers from ages 10-14 on different microbiology techniques like Gel Electrophoresis and pipetting skills.

Webshadowers- via online

2020 - 2021

Obtained 58 hours of shadowing multiple medical specialists in the medicine field and developed critical analysis skills by analyzing distinct medical cases in each area of specialty.

Fundación Niños Sonriendo- Moca, Puerto Rico

2021

Distributed food to citizens of my community during COVID-19 emergency.

CPR Course- NUC University, Aguadilla, Puerto Rico	2021
Acquired the techniques to provide basic CPR assistance.	
Method Validation in Microbiology- Biobusiness Research	2021
Learned about basic validation methods of microbiology to demonstrate the suitability of an analytic method for its intended purpose.	
Shadowed Dr. Frontera- Isabela, Puerto Rico	2021
Shadowed Dr. Frontera, a maxillofacial surgeon, and was able to assist and observe him in 10 interventions with patients in his office.	
Assistance to Workshop ¿Me gradué y ahora qué?- Aguadilla, Puerto Rico	2020
Learned how to prepare Curriculum Vitae and Resume for work and research experience.	
Para la Naturaleza- Manatí, Puerto Rico	2019
Planted trees and maintained greenhouse plants in an area that was devastated by Hurricane Maria.	
Sector La Vía Aguadilla- Aguadilla, Puerto Rico	2019
Distributed essential food and sanitizing products to low-income families.	
Regazo de Paz Foster Home- Aguadilla, Puerto Rico	2019
Crafted arts and engaged with fostered children.	
San Ignacio Home for Elderly People- Moca, Puerto Rico	2019
Assisted nurses to give food to elderly people and engaged in activities with them.	

RESEARCH SUPPORT

Role: Trainee	2021-present
Alshawabkeh, Akram, PI, NIEHS Puerto Rico Testsite for Exploring Contamination Threats (PROTECT) P42ES017198-10	

INSTITUTIONAL SERVICE

Honor Studies Program, University of Puerto Rico, Aguadilla Campus	2019-present
President	2021-present
Secretary	2019-2021

PUBLICATIONS

<i>La educación como norte.</i> Revista Brisas Vol XX1 Año 2020-2021.	2019
An interview of the life of one of the most distinguished and outstanding math and statistics professors at the University of Puerto Rico in Aguadilla, Dr. José Neville Díaz.	

PRESENTATIONS

Educational intervention on environmental health: Risk Factors of Breast Cancer	2021
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Speaker-Aguadilla, Puerto Rico

USDA REEU Symposium- State College, Pennsylvania-Speaker

2021

PROFESSIONAL AFFILIATIONS

National Honor Society of Biology (βββ) Zeta Lambda Chapter

2021-present

Med – Life UPRAG Chapter

2019-present

Niños Sonriendo Foundation

2019-present

HONORS AND AWARDS

Roll of Honor

2020-present

Honor Students Scholarship- University of Puerto Rico, Aguadilla Campus

2019-2020

Valedictorian Award- Carib Christian School, Aguadilla, Puerto Rico

2019

LANGUAGES

Spanish (native), English (advanced)

References available upon request