

EDUCATION

University of Puerto Rico, Rio Piedras Campus • San Juan, Puerto Rico • August 2015 - to present

Bachelor's degree in Natural Sciences • Integrative Biology

University of Minnesota Twin Cities • Minnesota, United States • Spring Semester 2018

Hurricane Relief Program for Puerto Rico via National Student Exchange (NSE)

University of Puerto Rico, Cayey Campus • Cayey, Puerto Rico • August 2014 - May 2015

Bachelor's degree in Natural Sciences • Interdisciplinary Program

CURRENT RESEARCH INTEREST

My current research focuses in environmental microbiology and our team is interested in understanding novel vectors of dispersal that are key in foodborne illness epidemics. We are examining little explored dispersal mechanisms of pathogenic bacteria and their associated metabolism. The exponential life cycle of the microorganisms in study has provided us with the possibility to implement big data bioinformatics. The computational analysis has proven to be a valuable tool in recent years and has assisted to the elucidation of the pathogen distribution in many outbreaks. We hypothesize that fecal-oral pathogenic may be carried and dispersed by certain gastropods that provide the necessary nutrients in their body secretions to promote bacterial growth.

RESEARCH EXPERIENCE

Research Initiative for Scientific Enhancement (RISE) Student • August 2018 - May 2019 • UPR-Río Piedras

Title: Characterization of Dispersion Vehicles Associated to Pathogens in Foodborne Illness Outbreaks

Professor: Gary Toranzos

Life Sciences Summer Undergraduate Research Program (LSSURP) • May 2018 - August 2018 • University of Minnesota - Twin Cities Campus

Title: Characterization of Cytomegalovirus GP133 in an MVA-Pentameric Complex Based Vaccine

Professor: Dr. Mark Schleiss

Poster Symposium Presentation: August 9 • University of Minnesota Campus

Biomedical Research, Informatics, and Computer Science (iBRIC) • May 2016 - August 2016 • University of Pittsburgh

Title: Evaluating Classifier Methods for Predicting Patient-Specific Test Results To Be Highlighted In A Learning Electronic Medical Record (LEMUR)

Professor: Dr. Harry Hochheiser

Poster Symposium Presentation: July 29 • Duquesne University

Annual Biomedical Research Conference for Minority Students (ABRCMS) • Tampa, Florida

Facegenes, School of Dental Medicine RCM • August 2016 - December 2016 • University of Puerto Rico

Title: Associations between Orofacial Malformation Candidate Genes and CO₂ levels according to area of residence (Urban/Rural) - Genetic Epidemiology of Cleft Lip/Cleft Palate

Professor: Carmen Buxó

Proposal Presentation: December 15 . Oral Presentation

Life Sciences Summer Undergraduate Research Program (LSSURP) • May 2015 - August 2015 • University of Minnesota - Twin Cities Campus

Title: Influence of Estrous Cycle on Alcohol & Nicotine Consumption in C57BL/6 x 129 Female Mice

Professor: Dr. Anna M. Lee

Poster Symposium Presentation: August 6 • University of Minnesota Campus

Research Initiative for Scientific Enhancement (RISE) Student • June 2014 - May 2015 • UPR-Cayey

Title: Tropical Soil Bacteria Isolation & Characterization (Howard Hughes & RISE Program)

Professor: Dr. Michael Rubin, Mr. Giovanni Cruz

Proposal Presentation: May 20. Oral Presentation

Title: Solid State Synthesis of Mixed Metal Oxides

Professors: Dr. Lukasz A. Koscielski

Proposal Presentation: May 21. Oral Presentation

Title: Ammonium Salt application on Hepatic Encephalopathy (HE) subjects

Professors: Dr. Robert Ross, Dr. Eneida Diaz, Dr. Elena Gonzalez

Proposal Presentation: December 3rd. Oral Presentation

Title: Insular Gigantism within the Polygonaceae Family in Puerto Rico.

Professors: Dr. Robert Ross, Dr. Eneida Diaz, Dr. Enrique Rodriguez, Dr. Elena Gonzalez

Proposal Presentation: July 8th. Oral Presentation

WORK EXPERIENCE

Los Paleteros • Sales representative for ice cream popsicles & handling small local operations

• Acquired skills in Time Management, Problem Solving and Collaboration with a new industry
August 2017 - January 2018

Chat Agency • Digital Marketing Intern in charge of maintain optimal performance flow

• Developed statistical analysis on: Facebook Ads Manager, Google AdWords May 2017 - August 2017

Code 4 Puerto Rico & Center for Disease Control (CDC) • Digitalize the town of Rio Piedras using Open Street Map (OSM) and fight the ZIKA epidemic. • April 2016

EcoExploratorio & Oceanica • Puerto Rico's effort for the first National Science Museum •

Non-Profit • Teach Science to the community • San Juan, Puerto Rico August 2015 - August 2016

SKILLS

Language Proficiency:

Native Spanish (Speak, Read and Write)

Fluent Braille (Reading)

Native English (Speak, Read and Write)

Computer Literacy:

Microsoft Office (Powerpoint, Word, Excel)

Machine Learning Coding (Python & R)

Manipulation and Analysis of Big Data

REFERENCES

Evelyn Juliussen
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Dr. Colin Campbell
Associate Dean for Graduate Education at UMN Medical School
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