

# Jesús D. Quiñones-Llópiz

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## Academic Degrees:

- 2020** B.S. in Biology. University of Puerto Rico, Bayamón Campus.  
Magna Cum Laude (3.81)  
GPA in major field: 4.00
- 2015** High School Diploma / Musical Diploma  
Escuela Libre de Música Ernesto Ramos Antonini de San Juan.

## Major Courses

- Bioethics
- Biostatistics
- Botany with Laboratory
- Ecology with Laboratory
- Genetics with Laboratory
- Microbiology with Laboratory
- Cellular & Molecular Biology with Laboratory
- Zoology with Laboratory
- Undergraduate Research

## Additional Courses and certifications:

**2020** Zooplankton Ecology. Taller Ecológico de Puerto Rico. Course offered by Aurea E. Rodriguez Santiago, PhD. (Summer)

**2020** General Geographic. Department of Social Sciences, University of Puerto Rico, Bayamón Campus.

**2019** Advanced Workshop of quantitative analysis using the Rstudio and Rmarkdown platform. UPR-IPERT program. University of Puerto Rico, Rio Piedras Campus.

**2018** Collaborative Institutional Training Initiative Program. Certification for Researchers (Investigators, Assoc. Investigator, Lab Tech/Manager, Graduate and Undergraduate) Basic Course. Expiration Date: 02-Oct-2021. Record ID 28895073.

**2018** Biology Subjects - Oceanography. Department of Biology, University of Puerto Rico, Bayamón Campus.

**2018** Workshop of quantitative analysis using the Rstudio and Rmarkdown platforms. UPR-IPERT program. University of Puerto Rico, Rio Piedras Campus.

**2018** Search for data using American FactFinder. Statistics Institute of Puerto Rico. University of Puerto Rico, Bayamón Campus.

**2016** Statistics with computer. Mathematics Department, University of Puerto Rico, Bayamón Campus.

### **Memberships:**

The Crustacean Society Member 2019,2020

The Association for the Sciences of Limnology and Oceanography  
Member 2019

The Ecological Society of America Member 2018,2019 & 2020

### **Internship:**

Research internship at “Instituto de Investigaciones Marinas y Costeras de la Universidad de Mar del Plata, Argentina (CONICET)”  
Mentors: Dr. Nahuel E. Farias, Dr. Tomas A. Luppi and Dr. Jesús Nuñez.

### **Experience:**

**2019 - Present** Research assistant in the Scientific Citizen Program of Para La Naturaleza at "Reserva Natural Hacienda la Esperanza in Manati”.

**2017 - Present** Undergraduate Researcher at University of Puerto Rico at Bayamón.

**2018** FEMA Coastal Wetlands Assessment in the Natural Reserve of Punta Tuna Wetland in Maunabo Puerto Rico.

**2017-2018** Biology Tutor, Educative Services Program University of Puerto Rico, Bayamón Campus.

## Publications:

**Quiñones-Llópiz, Jesús D.** and Rodríguez-Fourquet, Concepción. (2019) Dinámica y Estructura de la población del cangrejo terrestre *Cardisoma guanhumi* (Latreille, 1825) en la Reserva Natural del Humedal Punta Tuna en Maunabo, Puerto Rico. *Primer Congreso Manglares de América, Guayaquil, Ecuador.*

## Research experience:

Structure and genetic diversity of the populations of *Cardisoma guanhumi* (Latreille, 1825) in coastal areas of Puerto Rico. (2019) In collaboration with Dr. Elsie Rivera Ocasio & Dr. Concepción Rodríguez Fourquet.

Population and sexual differences in the relative growth of the artisanal harvested land crab, *Cardisoma guanhumi* in Puerto Rico. (2019) In collaboration with Dr. Concepción Rodríguez-Forquet, Dr. Tomas A. Luppi and Dr. Nahuel E. Farias.

Population of *Gecarcinus ruricola* and *Cardisoma guanhumi* in the Reserva Natural Hacienda la esperanza en Manatí. (2020) In collaboration with Dr. Concepción Rodríguez Fourquet and William Burgos Dominguez.

Identification protocol for larvae of *Cardisoma guanhumi* using molecular techniques. (2019) In collaboration with Dr. Concepcion Rodriguez Fourquet and Dr. Elsie Rivera Ocasio.

Dynamics and structure of population of *Cardisoma guanhumi* at Punta Tuna Wetland Reserve in Maunabo, Puerto Rico. (2018) In collaboration with Dr. Concepción Rodríguez-Fourquet.

Impact of hurricanes Irma and María on forest temperature of the secondary forest patch “El Bosquecito” of the University of Puerto Rico in Bayamón. (2018) In collaboration with Dr. Concepción Rodríguez-Fourquet

Abiotic factor that may influence the population abundance of *Cardisoma guanhumi*. (2017) In collaboration with Camila B Rodríguez, Nydializ Cirilo, Lydiana Y. Román and Natisha M. Benítez.

Diversity of microinvertebrates in aquatic environments of the University of Puerto Rico in Bayamón. (2017) In collaboration with Natalia C. Burgos, Paula M. Ortiz and Negdiel Morales.

## **Skills:**

### ***Laboratory Skills***

Skills in the use, maintenance and calibration of laboratory equipment. Trained in the use of laboratory equipment in Cellular and Genetic Biology such as: Micropipettes, Centrifuges, pH meter, spectrophotometers (including Nanodrop), PCR machine, electrophoresis equipment, laminar flow and DNA extraction kits. Techniques in microscopy, differential centrifugation, SDS-PAGE, Western Blot, chromatography, distillation, DNA extractions, transformation, DNA fingerprinting and bioinformatics. Also including organization and sterilization skills using autoclave.

### ***Field Skills***

Techniques in the area of ecology applied to population ecology, plankton, phenology and wetland plants. Knowledge in the use of field equipment such as: abiotic sensors, YSI and Hydrolab multi-parameters, refractometer and sampling techniques.

### ***Informatic Skills***

Computer skills in statistical programs such as R, RStudio and Minitab. Skills in Microsoft Office (Word, Excel, PowerPoint, Outlook) and knowledge in both operating systems such as Windows and macOS.

## **Teaching Experience:**

Student Laboratory Assistant, General Biology. Assist the professor in the laboratory skills and the animal dissections. University of Puerto Rico in Bayamón. Under supervision of Dr. Elsie Rivera Ocasio.

## **Grants/Awards:**

**2020** Puerto Rico Louis Stokes Alliance for Minority Participation Summer Scholarship (USD\$1,000).

**2019** Puerto Rico Louis Stokes Alliance for Minority Participation Travel Award, to attend “Emerging Researchers National Conference in STEM”, Washington D.C. (USD\$1,563.30)

**2019** Puerto Rico Louis Stokes Alliance for Minority Participation Travel Award, to attend “Primer Congreso de Manglares de América, Universidad de Especialidades Espíritu Santo”, Guayaquil Ecuador. (USD\$650.19)

**2019–2020** Puerto Rico Louis Stokes Alliance for Minority Participation Scholarship “Structure and genetic diversity of the populations of *Cardisoma guanhumi* in coastal areas of Puerto Rico” (USD\$2,000)

**2019** National and International Summer Research Opportunity. Travel Award to participate in international research internship at Instituto de investigaciones Marinas y Costeras, Universidad Nacional de Mar del Plata, Argentina.(USD\$5,800)

**2018–2019** Puerto Rico Louis Stokes Alliance for Minority Participation Scholarship “Dynamics and structure of population of *Cardisoma guanhumi* at Punta Tuna Wetland Reserve in Maunabo” (USD\$2,000)

**2018** Strategies for Ecology Education, Diversity, and Sustainability (SEEDS) Undergraduate Student Travel Awards, to present a poster on the Ecological Society America Annual Meeting 2018.

**2017–2018** Puerto Rico Louis Stokes Alliance for Minority Participation Scholarship “Dynamics and structure of population of *Cardisoma guanhumi* at Punta Tuna Wetland Reserve in Maunabo” (USD\$2,000)

### **Presentations/Conferences:**

**2020** Undergraduate Research Symposium, Honor Students Program. University of Puerto Rico, Bayamón Campus. “Population ecology, sexual maturity and genetics of the land crab *Cardisoma guanhumi* in Puerto Rico.” (Oral Presentation)

**2020** Emerging Researchers National Conference in STEM. February 6–9, 2020. Washington D.C. (Attendant).

**2019** Tercer Simposio de Investigación de Reserva Nacional de Investigación Estuarina Bahía de Jobos. “Dinámica y Estructura de la población del cangrejo terrestre *Cardisoma guanhumi* (Latreille, 1825) en la Reserva Natural del Humedal Punta Tuna en Maunabo, Puerto Rico” (Oral & Poster Presentation).

**2019** BioExpo Biology Department, University of Puerto Rico, Bayamón Campus. “Talla de Madurez sexual morfométrica y estructura poblacional del cangrejo terrestre *Cardisoma guanhumi* en Puerto Rico” (Poster Presentation).

**2019** Primer Congreso de Manglares de América at Universidad de Especialidades Espíritu Santo, Guayaquil Ecuador. “Dinámica y Estructura de la población del cangrejo terrestre *Cardisoma guanhumi* (Latreille, 1825) en la Reserva Natural del Humedal Punta Tuna en Maunabo, Puerto Rico” (Oral Presentation)

**2019** UPR Bayamón Innovation, Technology & Sciences (UPRBits) “Population structure and morphometric sexual maturity of the land crab *Cardisoma guanhumi* in Puerto Rico.” (Oral Presentation)

**2019** Research presentation in the Puerto Rico Interdisciplinary Scientific Meeting and Junior Technical Meeting. “Demography variations of the land crab *Cardisoma guanhumi* in areas associated with the presence of the wetland plant *Annona glabra*.”. (Oral Presentation)

**2018** UPR Bayamón Innovations, Technology & Sciences (UPRBits) “Impact of hurricanes Irma and María on forest temperature of the secondary forest patch “El Bosquecito” of the University of Puerto Rico in Bayamón”. (Poster Presentation)

**2018** Ecological Society of America Annual Meeting. “Impact of hurricanes Irma and María on forest temperature of the secondary forest patch “El Bosquecito” of the University of Puerto Rico in Bayamón” Poster Section: Disturbance and Recovery. (Poster Presentation)

**2018** Research presentation in the Puerto Rico Interdisciplinary Scientific Meeting and Junior Technical Meeting. “Dynamics and structure of population of *Cardisoma guanhumi* at Punta Tuna Wetland Reserve in Maunabo”. (Oral Presentation)

### **Honors:**

**2020** Holistic Recognition. Awarded to the most outstanding student in community service, leadership and research in the Biology program, by the faculty of the Department of Biology of the University of Puerto Rico at Bayamón after an evaluation process. Graduates Activity 2020.

**2020** Recognition for Scientific Research. Awarded by the faculty of the Biology Department of the University of Puerto Rico at Bayamón, after an evaluation process. Graduates Activity 2020.

**2020** Recognition for community services. Awarded by the faculty of the Department of Biology of the University of Puerto Rico at Bayamón, after an evaluation process. Graduates Activity 2020.

**2020** Recognition for the commitment to scientific research at the Punta Tuna Wetland Nature Reserve, Maunabo Puerto Rico. Comité Pro Desarrollo de Maunabo. February 16, 2020

**2016-2020** Dean’s Honor List 2016, 2017, 2018, 2019 and 2020.

**2017- Present** Member of The Honor Students Program at the University of Puerto Rico, Bayamón Campus.

**2016- Present** Member of The National Society of Collegiate Scholars at the University of Puerto Rico, Bayamón Campus.

**2016** Educative services program achievements day. Recognition for performance in the General Biology class.

**2016-2018** Member of People Promoting Animal Welfare Association at UPR Bayamón.

### **Services:**

**2018 - 2020** President of the “Leading Initiative for Future Ecologist association” at University of Puerto Rico, Bayamón Campus.

**2018 - 2019** Vice-president of PACE Chair of The National Society of Collegiate Scholars at University of Puerto Rico, Bayamón Campus.

**2020** Scientific Fair Judge - Colegio Beato Carlos M. Rodriguez

**2019-2020** Student Representative at the Institutional Review Board (IRB). University of Puerto Rico, Bayamón Campus

**2019** Open House of the Biology Department, University of Puerto Rico, Bayamón Campus

**2019** Volunteer at Scuba Dogs Society in the international coastal cleanup 2019.

**2019** Participation and collaboration in “Simposio de *Pterocarpus officinalis*” at the University of Puerto Rico, Bayamón Campus

**2018** Volunteer at Scuba Dogs Society in the international coastal cleanup 2018.

**2018** Volunteer at “Mano a Mano ayudando a Puerto Rico” after Hurricane Maria.

**2018** BioBlitz 2018, Identification of protozoa and microinvertebrates. University of Puerto Rico, Bayamón Campus

**2017-2018** Volunteer at Para la Naturaleza Monitoring *Cardisoma guanhumi* and *Gecarcinus ruricola* population in Manatí, Puerto Rico.

**2017** Open House of the Biology Department, University of Puerto Rico, Bayamón Campus

**2017** Volunteer at the Educational Fair about Solar Eclipse.

**2016-2017** Volunteer at The Humane Society of Puerto Rico.

**References:**

Available on request