

CARLOS F. RIVERA-LÓPEZ

Department of Molecular and Cellular Biology
Harvard University
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EDUCATION

Harvard University Graduate Student; Molecules, Cells, and Organisms PhD program	2020 – Present Cambridge, MA
University of Puerto Rico, Mayagüez Campus B.Sc. in Biological Sciences	2015 – 2020 Mayagüez, PR
José Rojas Cortés High School Level: Superior	2012 – 2015 Orocovis, PR

HONORS AND AWARDS

Certificate of Distinction in Teaching Harvard University, Cambridge Campus	2021
MCO Training Grant Harvard University, Cambridge Campus	2020 – present
Charles Darwin Department of Biology Award, Commencement Ceremony University of Puerto Rico, Mayagüez Campus	2020
NSF Graduate Research fellow National Science Foundation Graduate Research Fellowship Program (NSF GRFP)	2020
Research and Creation Grant (\$1,500) Endowment Fund of the University of Puerto Rico	2019
ABRCMS 2018 Outstanding Presentation Award recipient (\$300) Annual Biomedical Research Conference for Minority Students (ABRCMS), Indianapolis, IN	2018
NIH Maximizing Access to Research Careers (MARC) U-STAR fellow National Institute of General Medical Sciences and University of Puerto Rico, Mayagüez Campus	2018 – 2020
2018 STEM Research and Career Symposium Travel Award Emory University, Atlanta, GA	2018
Summer Research Early Identification Program (SR-EIP) scholar Leadership Alliance	2018
Industrial Biotechnology Role Model Award recipient University of Puerto Rico, Mayagüez Campus	2017, 2016
HHMI Exceptional Research Opportunities Program (EXROP) scholar Howard Hughes Medical Institute, Chevy Chase, MD	2017
6th Undergraduate Biology Research Symposium Best Research Presentation Award recipient University of Puerto Rico, Mayagüez Campus	2016
Dean's and Honors Lists University of Puerto Rico, Mayagüez Campus	2016 – 2020
65th Intel International Science and Engineering Fair (Intel-ISEF) finalist Society for Science and the Public	2014

RESEARCH EXPERIENCE

Heterogeneity, dynamics, and fate potentials of adult stem cells in the acoele <i>Hofstenia miamia</i> Harvard University <i>Advisor: Dr. Mansi Srivastava</i>	June 2021 – present Cambridge, MA
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Identification of Antibodies for Magnetic Activated Cell Sorting of Primordial Germ Cells in Zebra Finch (<i>Taeniopygia guttata</i>) The Rockefeller University <i>Advisor: Dr. Erich Jarvis</i>	June 2019 - Aug 2019 New York City, NY
Uncovering Subcellular Localization and Substrate Specificity of OGT TPR truncations and Single TPR Deletions Harvard University, Main Campus <i>Advisor: Dr. Christina Woo</i>	May 2018 - Aug 2018 Cambridge, MA
Huracanes y bosques en Puerto Rico: ¿Qué sabemos y qué nos falta por saber? Interdisciplinary Center for Coastal Studies, University of Puerto Rico, Mayagüez Campus <i>Advisor: Dr. Tania López-Marrero</i>	Jan 2018 - May 2018 Mayagüez, PR
Molecular Study of the Expression of the PAX6 gene on the Hispaniolan Solenodon University of Puerto Rico, Mayagüez Campus <i>Advisor: Dr. Juan Martínez-Cruzado</i>	Aug 2017 - Dec 2017 Mayagüez, PR
Characterization and Efforts Towards Trapping a Thiyl Radical with RlmN I309W The Pennsylvania State University, University Campus <i>Advisor: Dr. Squire Booker, HHMI</i>	May 2017 – Aug 2017 State College, PA
Porto Rico 1930 Georeferenced: A Coastal Photomosaic Interdisciplinary Center for Coastal Studies, University of Puerto Rico, Mayagüez Campus <i>Advisor: Dr. Tania López-Marrero</i>	Jan 2016 - May 2017 Mayagüez, PR
Characterization of the Microchromosome 27 of the Puerto Rican Parrot (<i>Amazona vittata</i>) University of Puerto Rico, Mayagüez Campus <i>Advisor: Dr. Juan Martínez-Cruzado</i>	Aug 2015 - Dec 2017 Mayagüez, PR

PUBLICATIONS

Article in Peer-Reviewed Journal

López-Marrero, T.; Heartsill-Scalley, T.; [Rivera-López, C.F.](#); Escalera-García, I.A.; Echevarría-Morales, M. 2019. *Broadening our understanding of hurricanes and forests on the caribbean island of Puerto Rico: Where and what should we study now?* *Forests* 10: 710.

Other Publications

López-Marrero, T.; Lorenzo-Pérez, M.A.; [Rivera-López, C.F.](#); González-Toro, A.; Rivera-Santiago, D.J.; Nieves-Crespo, H.I.; Hernández-González, P.G. 2017. *Porto Rico 1930 Georeferenced: A Coastal Mosaic*. Interdisciplinary Center for Coastal Studies. Mayagüez, PR: University of Puerto Rico, Mayagüez Campus. 15 p.

Escalera-García, I.A.; [Rivera-López, C.F.](#) 2017. *Mortalidad de mangles en Cabo Rojo, Puerto Rico*. Interdisciplinary Center for Coastal Studies. Mayagüez, PR: University of Puerto Rico, Mayagüez Campus. 9 p.

ORAL PRESENTATIONS

Characterization of the Microchromosome 27 of the Puerto Rican parrot (<i>Amazona vittata</i>) 2018 STEM Research and Career Symposium; Emory University (Atlanta, Georgia)	Oct 1 st , 2018
Huracanes y bosques en Puerto Rico: ¿Qué sabemos y qué nos falta por saber? Institute of Caribbean Studies; University of Puerto Rico, Río Piedras Campus (Puerto Rico)	March 19 th , 2018
Huracanes y bosques en Puerto Rico: ¿Qué sabemos y qué nos falta por saber? Interdisciplinary Center for Coastal Studies and Center for Hemispherical Cooperation in Research and Education in Engineering and Applied Sciences; University of Puerto Rico, Mayagüez Campus (Puerto Rico)	March 15 th , 2018
Characterization and Efforts Towards Trapping a Thiyl Radical with RlmN I309W REU 2017 Symposium at PSU; The Pennsylvania State University (State College, Pennsylvania)	Aug 3 rd , 2017
Characterization of the Microchromosome 27 of the Puerto Rican parrot (<i>Amazona vittata</i>) 6 th Undergraduate Biology Research Symposium; University of Puerto Rico, Mayagüez Campus (Puerto Rico)	April 30 th , 2016

POSTER PRESENTATIONS

- Identification of Antibodies for Magnetic Activated Cell Sorting of Primordial Germ Cells in Zebra Finch (*Taeniopygia guttata*)** Aug 8th, 2019
A Celebration to Discovery 2019 Symposium; The Rockefeller University (New York City, New York)
- Characterization of the Microchromosome 27 of the Puerto Rican parrot (*Amazona vittata*)** Nov 14th–16th, 2018
Annual Biomedical Research Conference for Minority Students (ABRCMS); Indiana Convention Center (Indianapolis, Indiana)
- Uncovering Subcellular Localization and Substrate Specificity of the TPR domain of O-GlcNAc Transferase** June 28th, 2018
Leadership Alliance National Symposium; Connecticut Convention Center (Hartford, Connecticut)
- Chromosomal translocations during the evolution of the Puerto Rican parrot (*Amazona vittata*)** July 2nd–6th, 2017
2017 Society for Molecular Biology and Evolution (SMBE) (Austin, Texas)
- Characterization and Efforts Towards Trapping a Thiyl Radical with RlmN I309W** Aug 3rd, 2017
REU 2017 Symposium at PSU; The Pennsylvania State University (State College, Pennsylvania)
- The extract of Moringa oleifera tree leaves as an inhibitor of colorectal cancer cells** May 10th–17th, 2014
Intel International Science and Engineering Fair (ISEF); Los Angeles Convention Center (Los Angeles, California)

PROFESSIONAL ENRICHMENT

- 2022 ISRB Regeneration Around the World** April 2022
International Society for Regenerative Biology Virtually from MA
Hosted virtually
- 2022 Northeast Regional Meeting of the Society for Developmental Biology** April 2022
Society for Developmental Biology Woods Hole, MA
Marine Biological Laboratories
- MCO Teaching Fellow** Sep – December 2021
SCRB 111 – Regeneration: Phenomena to Mechanisms Cambridge, MA
Harvard University, Cambridge Campus
- Society for Developmental Biology 80th Annual Meeting** July 2021
Society for Developmental Biology Virtually from MA
Hosted virtually
- International Society for Regeneration Biology 2021 Meeting** April 2021
International Society for Regeneration Biology Virtually from MA
Hosted virtually
- Virtual GSAS Summer Institute** August 2020
Harvard Integrated Life Sciences Virtual from MA
Harvard University, Cambridge Campus
- The 2019 Bird Song and Animal Communication Annual Meeting** June 2019
Host: The Jarvis Lab
Cary Institute & Center for Field Research in Ethology and Ecology
Millbrook, NY
- 2019 Experimental Biology Conference** April 2019
American Society for Biochemistry and Molecular Biology (ASBMB)
Orlando, FL
Orange County Convention Center
- Ornithology: Comprehensive Bird Biology** Nov 2018 - July 2019
Bird Academy at The Cornell Lab
Mayagüez, PR
The Lab of Ornithology, Cornell University
- 2018 Annual Biomedical Research Conference for Minority Students (ABRCMS)** Nov 2018
National Institute of General Medical Sciences and American Society for Microbiology
Indianapolis, IN
Indianapolis Convention Center
- 2018 STEM Research and Career Symposium** Oct 2018
Laney Graduate School
Atlanta, GA
Emory University

Research Integrity Training Seminar

FAS Research Administration Services
Harvard University, Main Campus

June 2018
Cambridge, MA

USDA-HSI DNA Barcoding Workshop

Lecturers: Dr. Dimuth Siritunga and Dr. Benjamin Van Ee
University of Puerto Rico, Mayagüez Campus

Feb 2018
Mayagüez, PR

Introduction to the Institutional Review Board (IRB) Seminar

Lecturer: Dr. Rafael Boglio-Martínez
University of Puerto Rico, Mayagüez Campus

Sep 2017
Mayagüez, PR

COMMUNITY AND ACADEMIC OUTREACH

Lowell House Resident Tutor

Harvard University, Cambridge Campus

Sept 2022 – present
Cambridge, MA

Graduate Student Panelist at the 2022 National Collegiate Research Conference (NCRC)

Harvard University, Cambridge Campus

January 2021
Virtually from MA

2021 Summer Research Opportunities at Harvard University (SROH)

Harvard University, Cambridge Campus

June 2021 – July 2021
Virtually from MA

Graduate Student Panelist at the 2021 National Collegiate Research Conference (NCRC)

Harvard University, Cambridge Campus

January 2021
Virtually from MA

Open House at the Interdisciplinary Center for Coastal Studies

University of Puerto Rico, Mayagüez Campus

April 2019
Mayagüez, Puerto Rico

MARC Service Learning in Research and Mentoring Program

University of Puerto Rico, Mayagüez Campus

June 2018 – May 2020
Mayagüez, PR

Youth Day at Penn State

The Pennsylvania State University, University Campus (Old Main Lawn)

July 2017
State College, PA

National Society for Professional Engineers (NSPE) Engineering Challenge Program

University of Puerto Rico, Mayagüez Campus

April 2017
Mayagüez, PR

Math Tutoring for Freshman Students

University of Puerto Rico, Mayagüez Campus

Aug 2016 – May 2017
Mayagüez, PR

EXTRACURRICULAR ORGANIZATIONS

GSAS Harvard Puerto Rican Student Association

Harvard University, Cambridge Campus

Sept 2020 – July 2021
Cambridge, MA

Biology Honor Society (βββ) – Zeta Alpha Chapter

University of Puerto Rico, Mayagüez Campus

Aug 2016 – May 2020
Mayagüez, PR

The National Society of Leadership and Success – Sigma Alpha Pi

University of Puerto Rico, Mayagüez Campus

Aug 2016 – May 2020
Mayagüez, PR

Family, Career and Community Leaders of America

José Rojas Cortés High School

Oct 2014 - May 2015
Orocovis, PR

WORK EXPERIENCE

Research Assistant

Interdisciplinary Center for Coastal Studies

2016 – 2018
Mayagüez, PR

REFERENCES

References are available upon request.