

Alex E. Mercado-Molina

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Current Position

Assistant Professor University of Puerto Rico-Bayamón
Research Scientist and Environmental Educator Sociedad Ambiente Marino

Education

2016-2020 Postdoctoral Research Associate, Center for Aquatic Chemistry and Environment,
Florida International University

2015 Doctor of Philosophy in Biology, University of Puerto Rico-Río Piedras Dissertation:
Demography of the threatened coral *Acropora cervicornis*: implications for its
management and conservation
Alberto Sabat, Chair

2008 Master of Science in Marine Sciences, University of Puerto Rico-Mayagüez Thesis:
Population ecology of the common demosponge *Amphimedon compressa* Paul. M.
Yoshioka, Chair

2000 Bachelor of Science in Biology, University of Puerto Rico- Río Piedras

Teaching Appointment and Experiences

2021-2023 Ana G. Méndez University. Assistant Professor
Marine Biology, Graduate Seminar, Summer workshop in Scientific Writing
and Biostatistics

2015-2016 University of Puerto Rico, Río Piedras, Puerto Rico. Assistant Professor
Courses: Ecology and Zoology

2009-2010 University of Puerto Rico, Río Piedras, Puerto Rico. Laboratory Instructor Course:
Ecology

2009 Jose Campeche High School, San Lorenzo, Puerto Rico. Teacher Course: Biology

2001-2003 Centro Agroprecuario CETA-ICA Puna, Bolivia. Teacher Courses:
Environmental Sciences, Soil Sciences, Conservation

Fellowships and Grants

- 2022-2024 Puerto Rico Sea Grant (\$120,000). **Project:** Quantify ecological function, historical threat exposure and resilience potential for coral reef areas of special interest in Puerto Rico's Northeast Marine Corridor, PI: Rolando Santos, CoPIs: **Alex E. Mercado-Molina**; Edwin Hernández, Simon Pitman.
- 2022-2024 Puerto Rico Sea Grant (\$120,000). **Project:** Assessing the impacts of water quality and climate change on the long- spined sea urchin *Diadema antillarum* to inform coral reef management and restoration, PI: Juliet Wong, CoPIs: **Alex E. Mercado-Molina**; José M. Erin-López
- 2020-2023 National Fish and Wildlife Foundation (\$1,645,204.14). **Project:** Restoring the three-dimensional structure of hurricane-impacted coral reefs in Puerto Rico, PI: **Alex E. Mercado-Molina**; CoPIs: Rolando Santos, Samuel Suelimán
- 2020-2023 National Oceanographic and Atmospheric Administration (\$704,000.00). **Project:** Restoring the seagrass-coral reef continuum habitats across hurricane-impacted coastal areas in Culebra Island, Puerto Rico. PI: **Alex E. Mercado-Molina**; CoPI: Samuel Suelimán, Claudia P. Ruiz-Diaz, Carlos Toledo.
- 2020-2023 National Fish and Wildlife Service (\$75,000.00). **Project:** Preventing habitat loss of the endangered cactus *Leptocereus grantianus* by increasing the wave attenuation capability of seagrass beds and coral reefs. PI: **Alex E. Mercado-Molina**; CoPI: Samuel Suelimán.
- 2017-2019 National Science Foundation (\$200,000.00). **Project:** Linking physiology and demography in the Eastern mosquitofish *Gambusia holbrooki*. PI: **Alex E. Mercado-Molina**: Postdoctoral Fellowship
- 2017-2019 National Science Foundation (\$109,006.00). **Project:** Interaction between genotype and acquired environmental modifications during coral responses to extreme climatic events, Hurricanes Irma and María. PI: José M. Erin-López; CoPIs: Alberto Sabat, Illeana Baums. *I was a major contributor in project design, development, and writing, but was unable to be listed as PI due to University regulations.*
- 2016-2018 Puerto Rico Sea Grant (\$73,848.00). **Project:** Restoration of two threatened populations of *Acropora cervicornis* in eastern Puerto Rico: using a quantitative demographic model to guide their management. PI: **Alex E. Mercado-Molina**; CoPI: Elvira Cuevas
- 2016-2018 National Fish and Wildlife Foundation (\$75,000). **Project:** Actual status and trends of Endangered Species Act (ESA)-listed Elkhorn coral (*Acropora palmata*), Staghorn coral (*A. cervicornis*), and Star corals (*Orbicella annularis*, *O. faveolata*, *O. franksi*) across the Northeast Reserves System and Culebra Island, Puerto Rico. PI Edwin A. Hernández-Delgado; CoPI: **Alex E. Mercado-Molina**, Samuel E. Suleimán

2013-2015 NSF-Puerto Rico Center for Environment Neurobiology (\$72,000.00). **Project:** Demography and photobiology of the threatened coral *Acropora cervicornis*. PI: **Alex E. Mercado-Molina**: Graduate Fellowship

2011-2012 Puerto Rico Sea Grant (\$2,200.00). **Project:** Demographics and dynamics of two restored populations of the threatened reef-building coral *Acropora cervicornis*. PI: **Alex E. Mercado- Molina**

2009-2010 NSF-Center for Applied Tropical Ecology and Conservation (\$8,485.35). **Project:** Population status of the sea urchin *Diadema antillarum* in Northeastern Puerto Rico. PI: **Alex E. Mercado- Molina**

Environmental Mitigation Grants

2017-2020 Aguadilla Municipal Government (\$169,308.00). **Project:** Long-term monitoring of coral outplants and marine invertebrate relocation at Aguadilla Bay, Puerto Rico Phase 2. PI Edwin A. Hernández-Delgado; CoPI: **Alex E. Mercado-Molina**, Samuel E. Suleimán

2016-2019 Ferrovial Agroman, LLC (\$105,000.00). **Project:** Long-term monitoring of coral outplants and marine invertebrate relocation at Aguadilla, Bay Puerto Rico Phase 2. PI Edwin A. Hernández- Delgado; CoPI: **Alex E. Mercado-Molina**, Samuel E. Suleimán

2015-2017 Aguadilla Municipal Government, & Ferrovial Agroman, LLC (\$150,000.00). **Project:** Coral and invertebrate removal and relocation at Paseo de la Real Marina, Aguadilla Bay. Mitigation Phase 2. PI Edwin A. Hernández-Delgado; CoPI: **Alex E. Mercado-Molina**, Samuel E. Suleimán

2015-2017 Aguadilla Municipal Government, & Ferrovial Agroman, LLC (\$150,000.00). **Project:** Coral and invertebrate removal and relocation at Paseo de la Real Marina, Aguadilla Bay. Mitigation Phase 1. PI Edwin A. Hernández-Delgado; CoPI: **Alex E. Mercado-Molina**, Samuel E. Suleimán

Awards and Honors

2014 Merit Scholarship for academic excellence, University of Puerto Rico-Río Piedras (\$18,000.00)

2010 Benthic Ecology Graduate Student Best Poster Presentation Award, 39th Benthic Ecology Meeting. Wilmington, North Carolina, USA

2007 Ivan Goodbody Student Achievement Award for the Best Student Poster Presentation, 33rd Scientific Conference of the Association of Marine Laboratories of the Caribbean. Saint Thomas, VI

2006 Smithsonian Tropical Research Institution (STRI). Scholarship Award (\$400.00), STRI awarded the scholarship to cover the tuition of the workshop Ecology and Taxonomy of Sponges held in Bocas del Toro, Panamá

Research Experience (15 selected)

- Present Sociedad Ambiente Marino. **Project:** Preventing the habitat loss of the endangered cactus *Leptocereous grantianus* by increasing the wave attenuation capability of seagrass beds and coral reefs. **Role:** Principal Investigator
- Present Sociedad Ambiente Marino. **Project:** Restoring the seagrass-coral reef continuum habitats across hurricane-impacted coastal areas in Culebra Island, Puerto Rico. **Role:** Principal Investigator
- Present Sociedad Ambiente Marino. **Project:** Restoring the three-dimensional structure of hurricane-impacted coral reefs in Puerto Rico. **Role:** Principal Investigator
- 2017-2020 Florida International University. **Project:** Linking physiology and demography in the Eastern mosquitofish *Gambusia holbrooki*. **Role:** Principal Investigator
- 2017-2020 Florida International University. **Project:** Interaction between genotype and acquired environmental modifications during coral responses to extreme climatic events **Role:** Research Associate
- 2004-Present Sociedad Ambiente Marino. **Project:** Low-cost techniques for the restoration of the threatened staghorn coral *Acropora cervicornis*. **Role:** Co-Principal Investigator
- 2016-2018 University of Puerto Rico-Río Piedras. **Project:** Restoration of two threatened populations of the *Acropora cervicornis* in eastern Puerto Rico: using a quantitative demographic model to guide their management. **Role:** Principal Investigator
- 2013-2014 Sociedad Ambiente Marino. **Project:** Demographic dynamics of the common demosponge *Ircinia felix*. **Role:** Principal Investigator
- 2009-2015 University of Puerto Rico-Río Piedras. **Project:** Demography of the threatened coral *Acropora cervicornis*: Implications for its management and conservation. **Role:** Ph.D. Dissertation
- 2009-2012 University of Puerto Rico- Río Piedras. **Project:** Demography of the octocoral *Gorgonia ventalina*. **Role:** Graduate Research Assistant
- 2009-2010 University of Puerto Rico-Río Piedras **Project:** Population status of the sea urchin *Diadema antillarum* in Northeastern Puerto Rico. **Role:** Principal Investigator
- 2006-2008 University of Puerto Rico-Mayagüez. **Project:** Population dynamics of the demosponge *Amphimedon compressa*. **Role:** Master Research Thesis

2006-2008 University of Puerto Rico-Mayagüez. **Project:** Sediment transport and the distribution of shallow-water gorgonians. **Role:** Graduate Research Assistant

2006-2008 University of Puerto Rico-Mayagüez. **Project:** Effects of *Diadema antillarum* generated bedload on the recruitment of shallow-water gorgonians **Role:** Graduate Research Assistant

1999-2000 University of Puerto Rico- Río Piedras. **Project:** Phenology of *Plumeria alba* and its herbivores in a tropical dry forest. **Role:** Undergraduate Research Assistant

Publications

(+ = GRADUATE STUDENT; * = UNDERGRADUATE STUDENT; ** = CITIZEN SCIENTIST)

25. **Mercado-Molina, A.E.**, Suleimán-Ramos, S.**, 2023. Outplants of the threatened coral *Acropora cervicornis* promote coral recruitment in a shallow-water coral reef, Culebra, Puerto Rico. Sustainability (accepted)

24. Aponte-Marcano⁺, P., Suleimán-Ramos**, S., **Mercado-Molina, A.E.**, 2023. Effectiveness of different nursery designs for the restoration of the threatened coral *Acropora cervicornis* in Culebra, Puerto Rico. Conservation Evidence, 20: 30-39

23. Santiago-Pauda, P*; Velazquez-Alvarado, J. ⁺, López-Pérez, A., * Névarez-Meléndez, J.*, Díaz-Duret, L**., Suleimán-Ramos, S.**, **Mercado-Molina, A.E.**, 2023. Demographic and population response of the threatened coral *Acropora cervicornis* (Scleractinia, Acroporidae) to fireworm corallivory. Revista de Biología Tropical, 2023. 71 suppl.1; p 1-15.

22. **Mercado-Molina, A.E.**, Sabat, A., Hernández-Delgado, E.A. 2020. Population dynamics of diseased corals: effects of a Shut Down Reaction outbreak in Puerto Rican *Acropora cervicornis*. Advance in Marine Biology: 87: 61-82.

21. Rodríguez-Casariago, J., **Mercado-Molina, A.E.**, Garcia-Souto, D., Ortiz, I., Lopes, C., Baums, I.B., Sabat, A.M., Erin-Lopez, J.M. 2020. Genome-wide DNA methylation analysis reveals a conserved epigenetic response to seasonal environmental variation in the staghorn coral *Acropora cervicornis*. Frontiers in Marine Sciences. 7, 822

20. Flood P., Durán, A., Barton, M., **Mercado-Molina, A.E.**, Trexler, J.C. 2020. Invasion impacts on function and services of aquatic ecosystems. Hydrobiologia. 847:1571–1586

19. **Mercado-Molina, A.E.**, Ruiz-Diaz, C.P., Sabat, A.M. 2018. Tissue loss rather than colony size determines the demographic fate of the branching coral *Acropora cervicornis*. Marine Ecology Progress Series. 597:147-159.

18. **Mercado-Molina, A.E.**, Rivera-Irizarry, F.+ , Fonseca-Miranda, J.** , Bruno-Laureano*, Y. 2018. Growth facilitation by the octocoral *Gorgonia ventalina* explains spatial differences in population structure of the sponge *Ircinia felix*. Marine Biology Research. 14: 41-50.

17. Hernández-Delgado, E.A., **Mercado-Molina, A.E.**, Suleimán-Ramos, S.E. ** 2018. Multi-Disciplinary Lessons Learned from Low-Tech Coral Farming and Reef Rehabilitation: I. Best Management Practices. In *Corals in a Changing World*. InTech. Pag. 213-243.
16. Hernández-Delgado, E.A., **Mercado-Molina, A.E.**, Suleimán-Ramos, S.E.** , Lucking, M.A. ** 2018. Multi- disciplinary Lessons Learned from Low-Tech Coral Farming and Reef Rehabilitation: II. Coral Demography and Social-Ecological Benefits. In *Corals in a Changing World*. InTech. Pag. 245-268.
15. Pérez-Pagán, B.S.*, **Mercado-Molina, A.E.**, 2018. Evaluation of the effectiveness of 3D-printed corals to attract coral reef fish at Tamarindo Reef, Culebra, Puerto Rico. *Conservation Evidence*. 15: 43-47.
14. Soto-Santiago, F.J., **Mercado-Molina, A.E.**, Reyes-Maldonado, K.*, Vélez, Y.*, Ruiz-Díaz, C.P., Sabat, A. 2017. Comparative demography of two common scleractinian corals: *Orbicella annularis* and *Porites astreoides*. *PeerJ*, 5, p.e3906.
13. Soto-Santiago, FJ, **Mercado-Molina, A.E.**, Reyes-Maldonado, K*, Sabat A.M. 2017. Physiological Response to Thermal Stress of the Caribbean Corals *Orbicella annularis* and *Porites astreoides*. *Research Journal of Environmental Sciences*, 11: 48-57.
12. **Mercado-Molina, A.E.**, Ruiz-Diaz, C.P., Sabat, A.M. 2016. Branching dynamics of transplanted colonies of the coral *Acropora cervicornis*: morphogenesis, complexity, and modeling. *Journal of Experimental Marine Biology and Ecology*. 482: 134-141.
11. Ruiz-Diaz, C.P., Toledo-Hernández, C, **Mercado-Molina, A.E.**, Sabat, A.M. 2016. Scraping and extirpating: two strategies to induce recovery of diseased *Gorgonia ventalina* sea fan. *Marine Ecology*. 37: 336-343.
10. Ruiz-Diaz, C.P., Toledo-Hernández, C, **Mercado-Molina, A.E.**, Pérez M.E, Sabat, A.M. 2016. The role of colony health state in the recovery of lesions *Peer J*. doi.org/10.7717/peerj.1531.
9. **Mercado-Molina, A.E.**, Ruiz-Diaz, C.P., Rodríguez-Barreras, R, Pérez M.E., Sabat, A.M. 2015. Demography of the threatened coral *Acropora cervicornis*: implications for its management and conservation. *Coral Reefs* 34: 113-1124
8. **Mercado-Molina, A.E.**, Ruiz-Diaz, C.P., Sabat, A.M. 2015. Demographics and dynamics of two restored populations of the threatened reef-building coral *Acropora cervicornis*. *Journal for Nature Conservation*. 24:17-23.
7. **Mercado-Molina, A.E.**, Montañez-Acuña, A.*, Rodríguez-Barreras, R., Colón-Miranda, R.*, Díaz-Ortega, G.*, Martínez-González, N*., Schleier, S*., Sabat, A. M. 2015. Revisiting the population status of the sea urchin *Diadema antillarum* in northern Puerto Rico. *Journal of the Marine Biological Association*. U. K. 95:1017 – 1024.
6. Rodríguez-Barreras, R, Pérez M.E., **Mercado-Molina, A.E.**, and Sabat, A.M. 2015. Arrested recovery of *Diadema antillarum* populations: survival or recruitment limitation? *Estuarine, Coastal, and Shelf Science*. 163:167-174.

5. **Mercado-Molina, A.E.**, Ruiz-Diaz, C.P., Sabat, A.M. 2014. Survival, growth, and branch production of unattached fragments of the threatened hermatypic coral *Acropora cervicornis*. *Journal of the Experimental Marine Biology and Ecology*. 457: 215-219.
4. Hernández-Delgado, E.A., Mercado-Molina, A.E., Alejandro-Camis, P.J**, Candelas-Sánchez, F**, Fonseca- Miranda, J.S**, González-Ramos, C.M.*, Guzmán-Rodríguez, R*, Mège, P., Montañez-Acuña, A.*, Olivo- Maldonado, I**, Otaño-Cruz, A.*, Suleimán-Ramos, S.E**. 2014. Community-based coral reef rehabilitation in a changing climate: Lessons learned from hurricanes, extreme rainfall, and changing land use impacts. *Open Journal of Ecology*. 4: 918:944.
3. Rodríguez-Barreras, R., Pérez M.E., **Mercado-Molina, A.E.**, Williams S.M., Sabat., A.M. 2014. Higher densities of the sea urchin *Diadema antillarum* linked to wave-sheltered areas in north Puerto Rico Archipelago. *Journal of the Marine Biological Association*. U. K. 94:1661-1669.
2. **Mercado-Molina, A.E.**, Sabat, A.M., Yoshioka, P.M., 2011. Demography of the demosponge *Amphimedon compressa*: Evaluation of the importance of sexual versus asexual recruitment to its population dynamics. *Journal of Experimental Marine Biology and Ecology*. 407: 355-362.
1. **Mercado-Molina, A.E.**, Yoshioka, P.M., 2009. Relationships between water motion and size-specific survivorship and growth of the demosponge *Amphimedon compressa*. *Journal of Experimental Marine Biology and Ecology*. 375: 51-56.

Articles Submitted

Fernández-Negrón, L.A., Ortiz-Rivera, I.M., Pacheco, C., Galindo-Estronza, A.M., Suelimán-Ramos, S.E, **Mercado-Molina, A.E.**, Discovery of a new population of the endangered *Leptocereus grantianus* (Cactaceae) in the Municipality of Culebra Island, Puerto Rico.
Submitted the Caribbean Naturalist

Articles in Preparation

Guzmán, R, Suleimán-Ramos, S.E., Hernández-Delgado, E.A., **Mercado-Molina, A.E.**, *Ramicrusta textilis* affects the demographic performance of the threatened coral *Acropora cervicornis*? (Manuscript available upon request).

Velázquez-Alvarado, J., Martínez-González, N; **Mercado-Molina, A.E.** The current state of coral reefs across the western coast of Culebra, P.R. (Manuscript available upon request).

Mercado-Molina, A.E., Trexler, J., Resource consumer interaction along a gradient of water flow. (Manuscript available upon request).

Technical Reports

(* = UNDERGRADUATE STUDENT; ** = CITIZEN SCIENTIST)

2. 2013 **Mercado-Molina, A.E.**, Hernández-Delgado, E.A., Rivera-Rivera J.E.*, Rivera-Rivera M.*, Suleimán-Ramos S.E.***, Maldonado-Olivo I.***, Fonseca-Miranda J.S.***, Rodríguez-Inoa E***. Protocol for the propagation and restorations of the staghorn coral *Acropora cervicornis*: Low-cost strategies. Sociedad Ambiente Marino.
1. 2011 Hernández-Delgado, E.A., Montañez, A.*, Otaño, A.*, Alejandro, P.***, Fonseca Jaime S.***, González, C.*, **Mercado-Molina, A.E.**, Olivo, I**, Guzmán, R.*, Laureano, R.***, Archilla, A**, Suleimán-Ramos S.E.***, 2013. Expansion of the Puerto Rico Low-Tech Coral Aquaculture and Coral Reef Rehabilitation Project: Sub-award MAR-SAM-110110 Final Report. The Nature Conservancy.

Conference Presentations (SELECTED)

Demographic and population response of a restored population of the threatened coral *Acropora cervicornis* to predation. 2nd Reef Futures Conference. Key Largo, Florida, September 26-30, 2022. **Mercado-Molina, A.E.** Santiago-Pauda, P., Velázquez-Alvarado J., López-Pérez, A., Nevárez-Mélendez, J., Díaz-Druet, L., Suleimán-Ramos,

A comparative study of two coral aquaculture techniques to propagate the threatened coral *Acropora cervicornis*. 2nd Reef Futures Conference. Key Largo, Florida, September 26-30, 2022. Aponte-Marcano, P., Suleimán-Ramos, S.E., **Mercado-Molina, A.E.**

Ecological facilitation to enhance the demographic performance of coral outplants: the role of reef structural complexity. 2nd Reef Futures Conference. Key Largo, Florida, September 26-30, 2022. Martínez-González, N. Suleiman-Ramos, S.E; Hernández-Delgado, E.; **Mercado-Molina, AE.**

Ramicrusta textilis affects the demographic performance of the threatened coral *Acropora cervicornis*? Key Largo, Florida, September 26-30, 2022. Guzmán, R. Suleiman-Ramos, S.E; Hernández-Delgado, E.; **Mercado-Molina, AE.**

A comparative study of the daily variation in the underwater acoustic diversity between urban and rural tropical streams in Puerto Rico. 107th ESA Conference. Agosto 14-19 Montreal Canada. Martínez-Rivera, Roberto, Velázquez Jeremy, **Mercado-Molina, A. E.**

A comparative study of acoustic indexes between restored and degraded coral reefs in Culebra, Puerto Rico, 107th Conference. Agosto 14-19 Montreal Canada. Velázquez Jeremy, **Mercado-Molina, A. E.**

Demography and phenology of the endangered cacti *Leptocereus grantianus*: implications for its management and conservation, 107th ESA Conference. Agosto 14-19 Montreal Canada. Fernández-Negrón, L.A., Ortiz-Rivera, I.M., Pacheco, C., Galindo-Estronza, A.M., Suelimán-Ramos, S.E, **Mercado-Molina, A.E.**,

Mercado-Molina, A.E., Trexler, J.C. Resource-consumer relationship along a gradient of water flow. The 38th Aquatic Sciences Meeting of the Association for the Sciences of Limnology and Oceanography. 23 February- 3 March 2019. San Juan, Puerto Rico. (Oral presentation)

Mercado-Molina, A.E., Ruiz-Diaz, C.P., Sabat, A. On the relationship between partial mortality and the demographic performance of *Acropora cervicornis*. The 38th Association of the Marine Laboratories of the Caribbean Scientific Conference. 22-28 May 2017. Mérida, México. (Oral presentation)

Mercado-Molina, A.E., Ruiz-Diaz, C.P., Sabat, A. Branching dynamics of the threatened coral *Acropora cervicornis* 13th International Coral Reef Symposium, June 19-24, 2016. Honolulu, Hawai'i, USA (Oral presentation)

Current Graduate Students Mentored: (Bold = PhD student; *Italics = Master student*)

12. **Irizarry Soto, Emmanuel: Project:** Using remote sensing to evaluate current changes in beach accretion rates across the Island Municipality of Culebra.
11. *Isabela Cunio: Project:* Demography of the threatened coral *Acropora cervicornis*: closed vs. open populations.
10. *Aponte Patria: Project:* Demography of the threatened coral growing in two different types of coral nurseries.
9. *Calderón Ileana: Project* Using otoliths to evaluate ontogenetic response of reef fishes to increased reefs complexity
8. *Fernández Luis: Project:* Demography of the threatened cacti *Leptocereus grantianus*
7. *Guzmán Roger:* The effect of the macroalgae *Ramicrusta textilis* on the demography of the threatened coral *Acropora cervicornis*.
5. *LaSanta Sheila: Project:* Changes in fish biodiversity in response to seagrass restoration.
4. **Martínez Neidibel:** Restoring the three-dimensional structure of hurricane-impacted reefs
3. *Martínez Roberto: Project:* Effect of water quality on aquatic insects' biodiversity.
2. *Velázquez Jeremy: Project:* The effect of increased substrate complexity in the underwater soundscape of coral reefs.
1. *Sánchez Juan:* Evaluation of seagrass outplanting as a tool to restore depleted population of the seagrass *Thalassia testudinum*.

Current Undergraduate Students Mentored: (Bold = undergraduate student; *Italics* = high school)

11. Viera Ghigliotti Alondra N.: Wetland ecology. Ana G. Méndez University
10. López Pérez, Arellys: Predation ecology. University of Puerto Rico
9. Rodríguez Berrios Gianeshly: Wetland ecology. Ana G. Méndez University
8. Vélez Torres Jaylanis: Wetland ecology. Ana G. Méndez University
7. Velázquez Díaz Kenneth: Marine biology. Ana G. Méndez University
6. Ramos Maymí Melanie: Marine biology. Ana G. Méndez University
5. Torres Coss Neelete: Marine ecology. Ana G. Méndez University
4. Ramos Gómez Tanairy: Marine biology. Ana G. Méndez University
3. Pérez García Valentina: Marine and wetland ecology. Ana G. Méndez University
2. Chávez Rodríguez Yulia: Wetland ecology. Ana G. Méndez University
1. Serrano Rosario Zulianett: Wetland ecology. Ana G. Méndez University

Professional Memberships

Association of the Marine Laboratories of the Caribbean, International Coral Reef Society, Ecological Society of America, Association for the Sciences of Limnology and Oceanography

Professional Activities

Journal Referee: Biodiversitas, Ecological Restoration, Journal of Experimental Marine Biology and Ecology, Journal for Nature Conservation, Marine Ecology Progress Series, North American Journal of Aquaculture, Oecologia, PLOS One, Restoration Ecology, Advance in Marine Sciences, Marine Biodiversity, Frontiers in Marine Science, Revista de Biología Tropical

Grants Referee: National Science Foundation, Sea Grant Puerto Rico

Professional Training and Development

- 2023 Introduction to Bayesian Statistics, Transmitting Science, Barcelona Spain
- 2022 Blackboard I and II, Universidad Ana G. Méndez, Gurabo, Puerto Rico
- 2022 Distance Learning, I and II, Universidad Ana G. Méndez, Gurabo, Puerto Rico
- 2019 Agent-based modeling in Netlogo. Berlin, Germany
- 2019 PRIMER v7 Multivariate Analysis in Ecology. San Marcos, Texas, USA
- 2018 Data analysis and visualization in R and SQL. University of Florida, USA
- 2012 Light and Photosynthesis on Coral Reefs. Universidad Nacional Autónoma México, México
- 2010 Basic statistical training for wildlife biologists. University of Puerto Rico, PR
- 2009 Sustainable tourism and coral reefs conservation. The Coral Reef Alliance, San Juan, PR
- 2006 Taxonomy and Ecology of the Caribbean Sponges. Smithsonian Tropical Research Institution
- 2003 Community Projects Design. Peace Corps-Bolivia

- 2003 Natural resources management and Cross-Cultural. USA Peace Corps
- 2001 Fish species identification and abundance surveys. Reef Environmental Education Foundation
- 2001 Benthic Coral Reef Condition (RECON) The Ocean Conservancy. La Parguera, PR

Community Service

- 2000-Present Marine Conservation and Outreach, Sociedad Ambiente Marino (SAM), San Juan, Puerto Rico. Current President and Research Associate
- 2001-2003 Natural Resources and Environmental Volunteer Peace Corps – Bolivia

