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EDUCATION

- 2000: Ph.D. in Geology from Tulane University, New Orleans, LA; Dissertation Topic:
Dolomitization and Evolution of the Puerto Rico North Coast Confined Aquifer System
- 1992: M.S. in Oceanography from the University of Puerto Rico, Mayagüez, P.R.;
 Thesis Topic: *Quantitative study on the variations in patterns of coral community structure and species diversity within the same reef in La Parguera, Lajas, Puerto Rico*
- 1987: B.S. with High Honors, University of Puerto Rico, Mayagüez, P.R.;
 Concentration: *Biology*

PROFESSIONAL EXPERIENCE

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| 2012 - present: | Full Professor, Department of Geology, UPRM |
| 2012 - present: | Coordinator of Strategic Planning, Department of Geology, University of Puerto Rico, Mayagüez (UPRM) |
| 2002 - present: | Professionally Licensed Geologist in Puerto Rico: License # 110-GP |
| 2017 - present: | Professional Geologist - Consultant in Geology for Autonomous University of the Dominican Republic (UASD), Dominican Republic. |
| 2016 - 2022: | Professional Geologist - Consultant in Geology for the National Geological Service, Dominican Republic (SGN). |
| 2003 - 2012: | Associate Professor, Department of Geology, UPRM |
| 2001 - 2004: | Associate Director, Department of Geology, UPRM |
| 2000 - 2003: | Assistant Professor, Department of Geology, UPRM |
| 1999 (Summer): | Field Research Assistant for J.R. Mylroie and J. Carew, Mississippi State University Department of Geology |
| 1998 - 2000: | Instructor of physical and environmental geology classes and laboratories, Department of Geology, UPRM |
| 1992 - 2000: | Field Research Technician on coral reefs research for Dr. Ivan P. Gill, Tulane University and UPRM |

- 1998: Geological Consultant - study on impact of sewage treatment plants in Puerto Rico for Vincenty, Heres & Lauria Environmental Engineering Society, Santurce, P.R. and Malcolm Pirnie Inc., New York hired by PRASA
- 1992 - 1997: Teaching Assistant for mineralogy, physical geology, structural geology, and historical geology laboratories, Tulane University, New Orleans, LA
- 1995: Tutor of mineralogy, physical geology and historical geology for the Athletic Student Life Tutorial program of Tulane University, New Orleans, LA
- 1994: Field Faculty MS Advisor of Kenneth Vazquez for Vermont College of Norwich University, Montpelier, VT
- 1993: Consultant on coral reef geology – impact assessment of damage to coral reefs in St. John, USVI caused by shipwreck - for Dr. Jack Morelock hired by McConnel Valdés Inc.
- 1992 - 1995: Field Research Technician on coral reefs research for Dr. Dennis Hubbard and Dr. Ivan Gill, Tulane University, New Orleans, LA.
- 1992: Geological Consultant on Coastal erosion - beach erosion at the Pico de Piedra beach for Jack Morelock hired by the Aguada town district, Puerto Rico
- 1991: Consultant on geology of coral reefs, survey of the insular shelf of Ponce, Puerto Rico for the construction of a Deep Water Outfall for Dr. Jack Morelock and Malcolm Pirnie Inc., New York.
- 1990: Research Assistant in aquaculture – developing better techniques for the survival of shrimp hatchlings for Dr. Dallas Aldston, UPRM

PUBLICATIONS

Rodríguez-Colón, B.J., Matos-Llavona, .P.I., **Ramírez-Martínez, .W.R.**, Baker, .G., Goldstein, R.H., Padilla-Montalvo, .J.A., Roberts, .J.A., Paleoenvironmental evolution and geomorphic controls on a microbialite-bearing coastal carbonate–evaporite system: Laguna Providencia, Puerto Rico. Sed-imentary Geology, under review.

Rodríguez-Colón, B.J., **Ramírez-Martínez, .W.R.**, Chabrier-Alpi, .A., Ríos-Velázquez, .C., Martínez-Rivera, .N., Baker, .G., Hiripitiyage, .Y., Sturm, .B., Roberts, .J.A. (2026). Documenting the Occurrence of Microbial Carbonate Deposits in Puerto Rico. Scientific Reports (Nature Portfolio), <https://doi.org/10.1038/s41598-026-47709-x>

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First report of the presence of Dolomitic Limestones in Montalva, Guánica. **Wilson R Ramírez-Martínez**, James A. Padilla-Montalvo, Bryan J. Rodriguez-Colon, Jennifer A. Roberts, Fernández-Vázquez, Iremar. Abstract in the 2024 Annual Symposium of Geology, Geology Department University of Puerto Rico Mayaguez.

Comparative Study of Present-Day Microbial Deposits and Sediment Record in a Microbialite-Forming Lagoon, Southwest Puerto Rico. Bryan J. Rodriguez-Colon, Pedro I. Matos-Llavona, **Wilson R. Ramírez-Martínez**, James Padilla-Montalvo, Jennifer A. Roberts A. Abstract in the 2024 Gordon Geobiology Conference in Galvestone Texas, Jaunary, 2024.

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Boulder deposits on Isla de Mona, Puerto Rico: Evidence of tsunami or storm? Erica E Emry, Juan Carlos Moya, Pedro Israel Matos-Llavona, Alberto M. Lopez Venegas and **Wilson R Ramírez-Martínez**, Abstract # NH016-02 in the AGU Fall Meeting, December 2020.

Rodríguez-Colón, B.J., Roberts, J.A., Hiripitiyage, Y., Baker, G.S., Sturm, B., **Ramírez-Martínez, W.R.**, Chabrier-Alpi, A.#, Duckett, M.#, 2019, Constraining Geochemical and Microbiological Controls on Mineralization and Morphology of Calcifying Microbial Mats on the Southwest Shore of Puerto Rico. AGU Fall Meeting, Abstract PP41C-1554.

Rodríguez-Colón, B.J., Roberts, J.A., Baker, G.S., **Ramírez-Martínez, W.R.**, Chabrier-Alpi, A.#, Hiripitiyage, Y., Duckett, M.#, Sturm, B., 2019, Unveiling the Occurrence of Microbialite Formations in the Southwest of Puerto Rico. AbSciCon, Abstract #482874.

Rodriguez, L.G., Cohen, A.L., **Ramírez-Martínez W.R.** , Oppo, D.W., Pourmand, A., Edwards, R.L., Alpert, A.E. and Mollica, N. (2019), Mid-Holocene, Coral-Based Sea Surface Temperatures in the Western Tropical Atlantic. *Paleoceanography and Paleoclimatology*, 34: 1234-1245. <https://doi.org/10.1029/2019PA003571>

Baker, G.S., Roberts, J.A., Rodríguez-Colón, B.J., **Ramírez-Martínez, W.R.**, Chabrier-Alpi, A., Duckett, M., (2019), Acquisition Criteria for UAV (drone) structure-from-motion (SFM) and Photogrammetry of Bathymetry in very shallow water. Oral Presentation. Geological Society of America Abstracts with Programs, Vol. 51, No. 5, ISSN 0016-7592.

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Rodríguez-Colón, B.J., Roberts, J.A., **Ramírez-Martínez, W.R.**, Hiripitiyage, Y., Sturm, B., Chabrier-Alpi, A., Duckett, M.A., (2019), Constraining Geochemical and Microbiological Controls on Mineralization and Macro-Morphology of Microbial Mats: Insights into Microbialite Formation. Poster Presentation. Kansas Interdisciplinary Carbonate Consortium (KICC) 2019 Annual Meeting.

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Diana Ortega-Ariza, Evan K. Franseen, Hernán Santos-Mercado, **Wilson R. Ramírez-Martínez** and Elson E. Core-Suárez. Strontium Isotope Stratigraphy for Oligocene-Miocene Carbonate Systems in Puerto Rico and the Dominican Republic: Implications for Caribbean Processes Affecting Depositional History. *En*: Libro de Abstr. del XI Congreso Intern. de Investigación Científica (MESCyT) efectuado en la Biblioteca Pedro Mir, Universidad Autónoma de Santo Domingo, Rep. Dom., 8-10 de junio de 2016. Página 138, No. 191

Kevián A. Pérez-Valentín, **Wilson R. Ramírez-Martínez**, Hernán Santos-Mercado, James Joyce, Vera Cedeño, Rafael Méndez-Tejeda and Australia Ramírez. Aspects of Depositional and Diagenetic History of La Romana Province, Dominican Republic. *En: Libro de Abstractos del XI Congreso Internacional de Investigación Científica (MESCyT) efectuado en la Biblioteca Pedro Mir, Universidad Autónoma de Santo Domingo, República Dominicana, 8-10 de junio de 2016. Página 142, No. 197*

Kevin I. Vélez-Rosado, Hernán Santos-Mercado, Jorge Vélez-Juarbe, **Wilson R. Ramírez-Martínez**, Rafael Méndez-Tejeda, Vera Cedeño and Australia Ramírez. Vertebrate Paleontology and Paleoenvironmental Analysis in the Yanigua-Los Haitises Formations, Dominican Republic. *En: Libro de Abstractos del XI Congreso Internacional de Investigación Científica (MESCyT) efectuado en la Biblioteca Pedro Mir, Universidad Autónoma de Santo Domingo, República Dominicana, 8-10 de junio de 2016. Página 142, No. 198*

Morales-Collazo, J., **Ramírez-Martínez, Wilson. R.**, Winter, A. Santos, H., Cobb, K., Sayani H., Grothe, P., Gonzales-Tavarez, M. Edwards, R.L., Cheng, H., Cedeño V., Méndez-Tejeda, R. y Ramírez A. Reconstrucción Paleoclimática de la Temperatura Superficial Marina durante el Holoceno temprano producida de corales fósiles presentes en las laderas del Lago Enriquillo, República Dominicana. *En: Libro de Abstractos del XI Congreso Internacional de Investigación Científica (MESCyT) efectuado en la Biblioteca Pedro Mir, Universidad Autónoma de Santo Domingo, República Dominicana, 10-12 de junio de 2015. Página 220, No. 361*

Core-Suárez Elson E., **Ramírez-Martínez Wilson R.**, Ortega-Ariza, Diana, Santos-Mercado, Hernán, Franseen, y Evan K. Estratigrafía secuencial del sistema mixto de carbonatos y siliciclásticos del Neógeno en el Parque Nacional los Haitises, Noreste de República Dominicana. *En: Libro de Abstractos del XI Congreso Internacional de Investigación Científica (MESCyT) efectuado en la Biblioteca Pedro Mir, Universidad Autónoma de Santo Domingo, República Dominicana, 10-12 de junio de 2015. Página 220, No. 360*

Ortega-Ariza, Diana, Franseen, Evan K., Santos-Mercado, Hernán, **Ramírez-Martínez Wilson R.**, Core-Suárez Elson E. Strontium-isotope stratigraphy for Oligocene-Miocene carbonate systems in Puerto Rico and The Dominican Republic: Implications for Caribbean processes affecting depositional history. Published in *The Journal of Geology*, 2015, volume 123, p.539-560.

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Core, E., **Ramírez-Martínez, W.R.**, Santos, H., 2014, Stratigraphy, Absolute Age, and Relative Sea-level History of Mixed Carbonate and Siliciclastics Sequences at Northeastern Dominican Republic. Poster at the 34th Puerto Rico Interdisciplinary Scientific Meeting, University of Puerto Rico at Cayey, March 29, 2014.

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Pérez-Valentín Kevían and **Ramírez-Martínez Wilson R.** (2013) A study of dolmites in Isla de Monito, *abstract in*: Southeastern GSA Section Meeting 2013, Abstracts with Programs, Vol. 45, No. 2, ISSN 0016-7592, p. 79.

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Rodríguez-Delgado Alejandra, **Ramírez-Martínez Wilson R.** and Gonzales Luis (2013) The deposition and heterogeneity of Isla de Mona complex, Puerto Rico, a reservoir analogue for the modeling of carbonate platforms, *abstract in*: Southeastern GSA Section Meeting 2013, Abstracts with Programs, Vol. 45, No. 2, ISSN 0016-7592, p. 79.

Rodríguez-Delgado Alejandra, Gonzales Luis and **Ramírez-Martínez Wilson R.** (2013) The use of diagnostic corals and foraminifera to reconstruct the depositional history of the Miocene to Pliocene Mona Reef Complex, Puerto Rico, *abstract in: Southeastern GSA Section Meeting 2013, Abstracts with Programs*, Vol. 45, No. 2, ISSN 0016-7592, p. 79.

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Ramírez-Martínez, W., Morelock, J., Santos, H. (2004) Aplicando Métodos de Monitoreo para determinar la condición de los arrecifes de coral en Puerto Rico. Video documentary produced for NOAA.

Martínez, M., Urbina, C., González, W., Galluzzo J., and **Ramírez-Martínez W.** (2004) Distribución paleoecológica (Foraminíferos Bentónicos) a través del límite Oligoceno-Mioceno en el Suroeste de Puerto Rico: ¿Implicación global o local? Abstracto. Encuentro Científico Internacional de Invierno (ECI-2004i), Colegio de Ingenieros, Lima, Perú. 30 Julio - 2 Agosto 2004.

Ramírez-Martínez, W. and Morelock, J. (2003) Monitoring change in coral colonies by changing physical environments. Abstract. *In*: Memoirs of the 2003 Marcuba Conference.

Morelock, J. and **Ramírez-Martínez, W.** (2003) Status of Coral Reefs, southwest Puerto Rico. Abstract. *In*: Memoirs of the 2003 Marcuba Conference.

Rivera J. and **Ramírez-Martínez, W.** (2003) Stratigraphy and Diagenesis of Pleistocene Eolian Deposits from the Northern Coast of Puerto Rico. Abstract. *In*: AAPG Annual Meeting 2003 Abstracts with Programs Energy - Our Monumental Task, in Salt Lake City. Poster.

Morelock, J., **Ramírez-Martínez, W.**, Barreto, M., (2003). The Worlds's Coasts: Online: Puerto Rico, Kluwer Press.

Morelock, J., **Ramírez-Martínez, W.**, Bruckner, A., Carlo, M. (2001). Status of coral reefs southwest Puerto Rico, Caribbean Journal of Science, Special Publication #4, 57 pp.

PRESENTATIONS

Coastal Research in Puerto Rico since the 1950's. Wilson R Ramírez-Martínez, Presentation at the 2026 Annual Symposium of Geology, Geology Department University of Puerto Rico, Mayaguez.

Documenting Microbialite Deposits and Unraveling Their Paleoenvironmental Origins in a Coastal Lagoon, Southwestern Puerto Rico. Bryan J. Rodriguez-Colon, Jennifer A. Roberts, Pedro Israel Matos-Llavona, Wilson R Ramírez-Martínez and James A. Padilla-Montalvo, Future Presentation. Abstract: ID# 1575569, AGU Annual Conference in Washington, November, 2024.

First report of the presence of Dolomitic Limestones in Montalva, Guánica. Wilson R Ramírez-Martínez, James A. Padilla-Montalvo, Bryan J. Rodriguez-Colon, Jennifer A. Roberts, Fernández-Vázquez, Iremar. Presentation at the 2024 Annual Symposium of Geology, Geology Department University of Puerto Rico Mayaguez.

Comparative Study of Present-Day Microbial Deposits and Sediment Record in a Microbialite-Forming Lagoon, Southwest Puerto Rico. Bryan J. Rodriguez-Colon, Pedro I. Matos-Llavona, Wilson Ramírez-Martínez, James Padilla-Montalvo, Jennifer A. Roberts A.. Presentation at the 2024 Gordon Geobiology Conference in Galvestone Texas, January, 2024.

Boulder deposits on Isla de Mona, Puerto Rico: Evidence of tsunami or storm? Erica E Emry, Juan Carlos Moya, Pedro Israel Matos-Llavona, Alberto M M Lopez Venegas and Wilson R Ramírez-Martínez, Presentation # NH016-02 at the AGU Fall Meeting, December 2020.

Petrography, Geochemistry, and Genesis of two Neogene Dolomite Units located in Guánica and San Sebastián, Puerto Rico. Tatiana Fernández and Wilson R. Ramírez Martínez. Poster Presentation at the 33rd Geology Symposium of the Department of Geology, University of Puerto Rico Mayagüez. February 2019.

Changes in coral populations from 2002 to 2017 in the Boca Prieta Coastal Area, Cabo Rojo, Puerto Rico. Iremar Fernández and Wilson R. Ramírez Martínez. Poster Presentation at the 33rd Geology Symposium of the Department of Geology, University of Puerto Rico Mayagüez. February 2019.

The age of the Cibao Formation at Punta Higuera, Rincón, PR, and Implications for the extensional faulting in Northwestern Puerto Rico. Estefanía Vincens and Wilson R. Ramírez Martínez. Poster Presentation at the 33rd Geology Symposium of the Department of Geology, University of Puerto Rico Mayagüez. February 2019.

The onset of extensional Faulting in Western Puerto Rico at 15MA. Vincens, Estefania, Hughes, K. Stephen, Joyce, James and Ramírez, Wilson. Poster Presentation at GSA Abstract #301281, Abstract at GSA Annual Meeting in Seattle, Washington, USA – 2017.

Lo mas reciente sobre la geología del complejo arrecifal de Neógeno en Isla de Mona, Puerto Rico. *Presentación Oral en el XIII Congreso Internacional de Investigación Científica (MESCyT)* efectuado en el Hotel Sheraton de Santo Domingo, República Dominicana, 8-9 de junio de 2017.

Strontium Isotope Stratigraphy for Oligocene-Miocene Carbonate Systems in Puerto Rico and the Dominican Republic: Implications for Caribbean Processes Affecting Depositional History. *Presentación en el XI Congreso Internacional de Investigación Científica (MESCyT)*, en la Biblioteca Pedro Mir, Universidad Autónoma de Santo Domingo, República Dominicana, 8-10 de junio de 2016.

Vertebrate Paleontology and Paleoenvironmental Analysis in the Yanigua-Los Haitises Formations, Dominican Republic. *Presentación en el XI Congreso Internacional de Investigación Científica (MESCyT)*, en la Biblioteca Pedro Mir, Universidad Autónoma de Santo Domingo, República Dominicana, 8-10 de junio de 2016.

Reconstrucción Paleoclimática de la Temperatura Superficial Marina durante el Holoceno temprano producida de corales fósiles presentes en las laderas del Lago Enriquillo, República Dominicana. *Presentación en el XI Congreso Internacional de Investigación Científica (MESCyT)*, Biblioteca Pedro Mir, Universidad Autónoma de Santo Domingo, República Dominicana, 10-12 de junio de 2015.

Estratigrafía secuencial del sistema mixto de carbonatos y siliciclásticos del Neógeno en el Parque Nacional los Haitises, Noreste de República Dominicana. *Presentación en el XI Congreso Internacional de Investigación Científica (MESCyT)*, Biblioteca Pedro Mir, Universidad Autónoma de Santo Domingo, República Dominicana, 10-12 de junio de 2015.

Análisis Geohidrológico de la Cuenca del Lago Enriquillo, presentación el 19 de enero de 2014 para el Instituto de Estudios del Caribe (Conferencias Caribeñas) de la Universidad de Puerto Rico en Río Piedras en el Anfiteatro Manuel Maldonado Denis de la Facultad de Ciencias Sociales, UPR-RP. Transmisión en vivo por UStream, <http://www.ustream.tv/channel/cc71>

Anfiteatro Manuel Maldonado Denis (CRA 108), Facultad de Ciencias Sociales, UPR-RP Transmisión EN VIVO por UStream, <http://www.ustream.tv/channel/cc71>

Instituto de Estudios del Caribe • UPR- Río Piedras • Facultad de Ciencias Sociales
Recurrencia de Terremotos en la Falla Septentrional Central, República Dominicana, *presentación en el Centro Universitario Regional de La Vega (CURVE)* de la Universidad Autónoma de Santo Domingo (UASD) el 18 de julio de 2014 por invitación del director del CURVE Geraldino Caminero.

Stratigraphy, Absolute Age, and Relative Sea-level History of Mixed Carbonate and Siliciclastic Sequences at North Eastern Dominican Republic. *Presentación en el Décimo Congreso Internacional de Investigación Científica del Ministerio de Educación Superior, Ciencia y Tecnología* el 12 y 13 de Junio de 2014.

Developing a fifteen-hundred-year record (6,200 $\pm$ 80 to 4,760 $\pm$ 90 YR B.P.) of sea surface temperature and coral reef development from a reef exposure in Cañada Honda, Dominican Republic, *presentation at the*: Southeastern GSA Section Meeting 2013, Caribe Hilton, San Juan Puerto Rico, March 20, 2013.

Invitado por La Universidad del Turabo, Puerto Rico al: Conversatorio sobre los orígenes e impacto ambiental del Desbordamiento de los lagos Enriquillo y Azuey en la Zona Fronteriza Dominico-Haitiana a ofrecer la conferencia: *Posibles causas geológicas de los drásticos cambios de nivel en los Lagos Enriquillo y Azuei en La República Dominicana*. Universidad del Turabo en Caguas, Puerto Rico, 21 de marzo de 2012.

Presentación titulada: The Fossil Reefs of Enriquillo Lake, Dominican Republic. Aceptada y presentada en el: VII International Interdisciplinary Scientific Reserach Congress (VII ISRC) en Santo Domingo, República Dominicana celebrada el 9-10 de Junio de 2011.

Invitado por el Consejo Estatal de Ciencia y Tecnología (COCECYT) de la República Dominicana a ofrecer la conferencia titulada: *Análisis Geohidrológico de la Cuenca de Drenage del Lago Enriquillo* en la Academia de las Ciencias de la República Dominicana, Santo Domingo, el 25 de noviembre de 2009.

Invitado por el Instituto Dominicano de las Telecomunicaciones (INDOTEL) de la República Dominicana a ofrecer la conferencia titulada: *Aspectos Geoógicos asociados a terremotos en la Falla Septentrional, derrumbes, erosión de costas y degradación de arrecifes de coral en la República Dominicana* como parte del seminario titulado; Desafíos de la República Dominicana frente al Cambio Climático, ofrecido en el Colegio Don Bosco, Moca, el 17 de septiembre de 2009.

Invitado por el Instituto Dominicano de las Telecomunicaciones (INDOTEL) de la República Dominicana a ofrecer la conferencia titulada: *Análisis Geohidrológico de la Cuenca de Drenage del Lago Enriquillo* como parte del seminario titulado; Desafíos de la República Dominicana frente al Cambio Climático, ofrecido en la Fundación Global de Democracia y Desarrollo (FUNGLODE), Santo Domingo, el 4 de agosto de 2009.

Clima: El Record en Roca. Presentación para la Conferencia Planeta Tierra y Sociedad: ciencias terrestres y actividad humana, celebrada en La Universidad de Puerto Rico, Recinto de Río Piedras, del 20 al 22 de noviembre de 2008.

La Geología de Puerto Rico. Presentación en un taller de Geología para la Puerto Rico Stokes Alliance for Minority Students (PR-LSAMP) en La Universidad de Puerto Rico, Recinto de Río Piedras, el 7 de noviembre de 2008.

Historia Geológica de Isla de Mona. Charla ofrecida a la Sociedad Espeleológica de Puerto Rico (SEPRI) durante su reunión del 3 de octubre de 2008.

La Geología de Isla de Mona. Presentación ofrecida (y solicitada por) el Departamento de Recursos Naturales y Ambientales de Puerto Rico (DRNA), salón de actividades del Edificio de Agencias Ambientales, San Juan Puerto Rico el 16 de junio de 2008.

Environmental Factors Controlling Community Structure, Morphology and Linear Extension of mid-Holocene Reef Corals from Cañada Honda, Southwestern Dominican Republic. 11th International Coral Reef Symposium in Forth Lauderdale, USA, July 8-10, 2008.

Holocene Reef Accretion along the North Side of Enriquillo Bay (Western Dominican Republic): Unique Insights into patterns of Reef Development in response to paleoceanography and Sea-Level Rise. 11th International Coral Reef Symposium, Forth Lauderdale, USA, July 8-10, 2008.

Shoreline Changes along Sardinera Beach, Mona Island. 24th Annual Symposium of Caribbean Geology; A Wayne Jolly Memorial, in the Department of Geology, University of Puerto Rico, Mayagüez, February 27-28, 2008.

Coral Growth Rates, Sedimentation Rates, Sediment Composition and Coral Cover in the Cañada Honda Holocene Reef, Dominican Republic. 24th Annual Symposium of Caribbean Geology; A Wayne Jolly Memorial, in the Department of Geology, University of Puerto Rico, Mayagüez, February 27-28, 2008.

Coral Growth Rates, Sedimentation Rates, Sediment Composition and Coral Cover in the Cañada Honda Reef, Dominican Republic. 18va Conferencia de Geología del Caribe, Renaissance Jaragua, Hotel & Casino, Santo Domingo, República Dominicana, 24-29 de Marzo de 2008.

Strontium Isotope Stratigraphy from Kuphus incrassatus, Cenozoic Limestones, Puerto Rico. 18va Conferencia de Geología del Caribe, Renaissance Jaragua, Hotel & Casino, Santo Domingo, República Dominicana, 24-29 de marzo de 2008.

Dolomites of Mona Island, Puerto Rico. 18va Conferencia de Geología del Caribe, Renaissance Jaragua, Hotel & Casino, Santo Domingo, República Dominicana, 24-29 de marzo de 2008.
Petrography of Mona Island Dolomites, Puerto Rico. GSA Annual Meeting in Denver, Colorado, October 28-31, 2007. Colorado Convention Center: Exhibit Hall E/F; October 28, 2007.

Coral Growth Rates, Sedimentation Rates and Sediment Composition in the Cañada Honda Holocene Reef, Dominican Republic. GSA Annual Meeting in Denver, Colorado, October 28-31, 2007. Colorado Convention Center: Exhibit Hall E/F; October 28, 2007.

Minerals in Organo-Sedimentary Layers: geologic record and genesis. Invited Lecturer at UCONN Marine Sciences at Avery Point during a Geomicrobiology Workshop offered with Pieter Visscher for the project: RUI Microbial Observatories. June 12, 2007.

Strontium Isotope stratigraphy from Kuphus Incrassatus, Cenozoic Limestones, Puerto Rico, 2006 GSA Annual Meeting in Philadelphia, October 22-25, 2006. Session # 30, 1:30PM, October 22, 2006.

Species Distribution, Coral Growth and Sedimentation in a Mid-Holocene Coral Reef: Cañada Honda, western Dominican Republic. 2006 GSA Annual Meeting in Philadelphia, October 22-25, 2006. Session No. 23, 8:00 AM, October 22, 2006.

Oligocene Reef Deposits Linked to ODP Site 999 with Strontium Isotope Stratigraphy. 2006 GSA Annual Meeting in Philadelphia, October 22-25, 2006. Session No. 230, 1:30 PM, October 25, 2006.

Evaluation of the effects of sedimentation and nutrient stress on coral. 1st Sea Grant Symposium for Coastal and Marine Applied Research, September 2, 2005, University of Puerto Rico, Nursing Auditorium.

Paleoclimate reconstructions using corals. Invited speaker as part of a NASA workshop for K-12 teachers funded by NASA (STP/LWS Education and Public Outreach, Laura Madachy). Workshop included a geology (and biology) field trip around the island of Puerto Rico. February, 2005.

Textura y Composición de las Arenas en Nuestras Playas. Conferencia ofrecida a estudiantes K-12 como parte de las actividades de La Semana de Las Ciencias Terrestres organizada por la Red Sísmica de Puerto Rico el 11 de octubre de 2005. Salón Eugene Francis, edificio de Física, Recinto Universitario de Mayagüez.

Importancia Geológica de Sierra Bermeja. Conferenciante invitado para ofrecer conferencia a maestros K-12 en el Centro Interpretativo de la Playa Combate, Cabo Rojo. 6 de febrero de 2005.

The Puerto Rico Trench. Invited Speaker as part of a workshop offered to K-12 teachers in the activity SEPORT Ocean Awareness Day in Magueyes Island, Lajas, Puerto Rico, funded by Sea Grant. February 5, 2005.

Assessment of the Response of a Holocene Coral Reef to High Sediment Input: Implications to Modern Trends of Reef Degradation in High Sedimentation Environments. Convención Cubana de Ciencias de la Tierra. 5 al 8 de abril de 2005. Presentado el 5 de abril en el Palacio de Convenciones, Habana, Cuba.

Assessment of the response of a Holocene Fossil Coral Reef to High sediment Input: Implications to modern trends of reef degradation in high sedimentation environments. 2004 GSA Annual Meeting in Denver, Colorado, Monday, November 8, 2004, 1:30 PM.

A preliminary model of Holocene coral-reef development in the Enriquillo Valley, SW Dominican Republic. 2004 GSA Annual Meeting in Denver, Colorado, Tuesday, November 9, 2004, 10:30 AM.

Importancia Geológica de Sierra Bermeja. Invitado a presentar una conferencia de geología para profesores de escuelas K-12 como parte de un taller organizado por la Sociedad Ornitológica de Puerto Rico. Ofrecida en Mayo del 2004 en el Centro Interpretativo de Las Salinas en Cabo Rojo.

Arrecifes de Coral en Puerto Rico. Invitado a presentar una conferencia de geología de arrecifes de coral con motivo de la Semana de Nuestros Recursos Naturales. Escuela Inés Maria Mendoza, Cabo Rojo. Abril, 2004

Importancia de estudios a “largo plazo” en la caracterización de arrecifes de coral. Invitado a ofrecer una conferencia por COSTAS durante la Semana de la Biblioteca 2004. Foro: “El futuro de los arrecifes de coral en Puerto Rico. Martes 12 de abril de 2004.

Evaluation of the effects of sedimentation and nutrients on coral and the long term monitoring of recovery after environmental stress. 21st Annual Symposium of Caribbean Geology: Caribbean Paleontology and Biostratigraphy. UPRM Geology Department-February 25-29, 2004. Talk officered on February 27 at 1:30 PM.

Record of the Past from Modern and Ancient Caribbean Reefs: Working to develop paleoclimate records from Cenozoic Caribbean Reefs. 21st Annual Symposium of Caribbean Geology: Caribbean Paleontology and Biostratigraphy. UPRM Geology Department-February 25-29, 2004. Talk offered on February 25 at 3:30 PM.

Monitoring change in coral colonies by changing physical environments. VI Congreso de Ciencias del Mar. Marcuba 2003. Placio de las Convenciones, La Habana Cuba. 1 al 5 de diciembre de 2003.

Status of Coral Reefs, southwest Puerto Rico. VI Congreso de Ciencias del Mar. Marcuba 2003. Placio de las Convenciones, La Habana Cuba. 1 al 5 de diciembre de 2003.

Survey of Coral Populations in the Buye Beach Area: A baseline for future assessment of the impact caused by coastal development of coral reefs. Tercer Simposio de Investigación de Fondos Semilla del Colegio de Artes y Ciencias, UPRM. Jueves 8 de mayo de 2003.

SHORT COURSES & WORKSHOPS

Workshop: *How to use petrographic techniques to identify sand grains as an effort to provide detailed information on the composition of beach sand and to develop models of coastal sedimentary dynamics.* Woroshop at the “Centro de Investigaciones Biologicas Marinas” (CIBIMA) of the “Universidad Autonoma de Santo Domingo” (UASD). Marsh 3-9, 2019.

Field Seminar: *Modern Carbonates – Florida and Bahamas.* For UPRM and KU students by Dr. Eugene Rankey, Dr. Wilson R. Ramírez-Martínez and Dr. Paul Enos. A trip to the Florida Keys and the Bahamas (Abacos) to visit and discuss in detail Modern Carbonates Platforms of the Florida Keys and the Abacos Islands in the Bahamas. April 22 to 30 of 2015.

Field Seminar: *The Geology of the British Virgin Islands* - Offered to UPRM Geology students in the British Virgin Islands by Dr. Wilson R. Ramírez-Martínez, Dr. James Joyce, Dr. Hernán Santos, Dr. Liza Chizmadia and Dr. Aaron Cavosie. November 19 - 25 of 2009.

Field Seminar and Workshop: *Geología e Historia Natural de Puerto Rico-Isla de Mona*. Viaje de Campo a Isla de Mona combinado con conferencias (*in situ*) para estudiantes doctorales que participan del proyecto "Puerto Rico Louis Stokes Alliance for Minority Participation" administrado por el Centro de Recursos para Ciencias e Ingeniería de la UPR (Prof. Javier Figueroa). Ofrecido los días del 9 al 13 de enero de 2008.

Field Seminar: *Controls on Porosity Types and Distribution in Carbonate Reservoirs*. For UPRM and KU students by Dr. Goldstein, Dr. Frankseen, Dr. Esteban, Dr. Santos and Dr. Ramírez. A trip to the Miocene Carbonate Complexes of the Cabo de Gata Area, SE Spain to visit and discuss in detail a variety of carbonate rocks, stratal patterns and depositional settings. March 16-23, 2008.

Field Seminar: *Stratigraphy, Tectonics and Subsurface Petroleum Geology of the Azua and Enriquillo Basins, southwestern Dominican Republic*. A field trip offered in the 18th Caribbean Geological Conference in Santo Domingo, Dominican Republic. March 23-24, 2008. Field Trip Leaders: Paul Mann, Pedro Hernaiz and Wilson R. Ramírez.

Taller: *La Geología de Isla de Mona*. Taller ofrecido al Departamento de Recursos Naturales y Ambientales sobre la investigaciones que lleva a cabo el autor (Wilson R. Ramírez) en Isla de Mona. El taller consistió de tres presentaciones incluyendo presentaciones de los estudiantes Krystina Scott y Alejandra Rodríguez que trabajan bajo la supervisión de Wilson R. Ramírez. Edificio de Agencias Ambientales, San Juan, Puerto Rico, 16 de Junio de 2008.

Exhibición Informativa: *Exhibición de Corales*. Mesa informativa y orientación durante la actividad "Niños al Aire Libre" organizada por la Red Sísmica de Puerto Rico como parte de la Celebración de la Semana de las Ciencias Terrestres para estudiantes de niveles pre-escolar al doudécimo el 10 de octubre de 2008.

Field Seminar: *Holocene and Pleistocene Carbonate Facies of Great Bahamas Bank*. Invited by the University of Kansas to join Gene Rankey and Paul Enos in a field seminar in the Bahamas for the Kansas University (KU) graduate and undergraduate students. Many field trip stops and conferences in the field. Funded by KU and Exxon Mobil. October 15-24, 2008.

Taller: *La Geología de Puerto Rico y taller de Rocas Ígneas, Sedimentarias y Metamórficas*. Conferencia de geología y taller de identificación de rocas rocas ígneas, sedimentarias y metamórficas para estudiantes graduados y subgraduados que participan del proyecto "Puerto Rico Louis Stokes Alliance for Minority Participation" administrado por el Centro de Recursos para Ciencias e Ingeniería de la UPR (Prof. Javier Figueroa). Ofrecido el 7 de noviembre de 2008.

Taller: *Clima: el Record en Piedra*. Conferencia sobre paleoclima y las herramientas geológicas usadas para conocer el clima del pasado, incluyendo muestras geológicas usadas en las investigaciones del conferenciante (Wilson R. Ramírez) y resultados sus investigaciones en Puerto Rico y la República Dominicana, como parte del Taller; Planeta Tierra y Sociedad: Ciencias Terrestres y Actividad Humana. Evento celebrado en la Universidad de Puerto Rico, Recinto de Río Piedras (organizadora: Lorna Jaramillo) el 21 de noviembre de 2008.

Geomicrobiology Workshop - Offered to UPRM and UPRH students at The University of Connecticut (UConn) Marine Science Department from July 15 through July 27 of 2003 by Dr. Pieter Visscher (UConn), Dr. Lilliam Casillas (UPRH) and Dr. Wilson R. Ramírez (UPRM). Funded by an NSF-RUI Microbial Observatories Grant.

Foro de presentaciones y exhibiciones con el tema: El futuro de los arrecifes de coral en Puerto Rico. Organizado por el programa COSTAS en colaboración con SEA GRANT. Invitado a participar en el foro y ofrecer la conferencia: *Importancia de estudios a "largo plazo" en la caracterización de arrecifes de coral*. Martes 12 de abril de 2004.

Chautauqua Workshop: *Natural History of Mona Island Puerto Rico*. Contacted by the NSF National Chautauqua Workshop Program (Nicolas G. Eror, Director) to be encharged of the geology part of a multidisciplinary natural history workshop in Mona Island. April 25-30, 2004.

Taller: *Importancia Geológica de Sierra Bermeja*. Conferencia de geología y viaje al campo (field trip) para profesores de escuelas K-12 co-organizado con la Sociedad Ornitológica de Puerto Rico. Ofrecido en Mayo del 2004 en el Centro Interpretativo de Las Salinas en Cabo Rojo.

Taller: *Las Arenas, Las Salinas y el Área de Sierra Bermeja*. Conferencia de geología y viaje al campo (field trip) para 130 estudiantes de escuelas intermedia, elemental y superior. Co-organizado con la Asociación de Clubes de Ciencias de Puerto Rico, Región Educativa de Guánica (Aliced M Granel y Karla Gonzales). Ofrecido el 5 y 6 de febrero de 2005 en el Punta Aguila Resort y el Centro Interpretativo de las Salinas en Cabo Rojo.

Taller: *Los Manglares de la Parguera y La Trinchera de Puerto Rico*. Conferencias de geología, biología y viaje al campo (Manglares) para 25 maestros K-12. Co-organizado con el Programa Sea Grant (Sandra J. Lebrón García) y el South Carolina Sea Grant Consortium como parte del "Ocean Awareness Day". Departamento de Ciencias Marinas en Isla Magueyes, Parguera, Lajas, el sábado 5 de febrero de 2005.

NASA: STP / LWS Workshop: A science workshop offered to a diverse group of teachers, principals, assistant principals, a university professor, outreach partners and a NASA Program Manager from across the U.S. Field trips around the island and many conferences offered (*Paleoclimate reconstructions using corals*). February 9-13, 2005.

Workshop: *The Geology of Puerto Rico*. A one day workshop including conferences and a field trip along the north coast of the island. Offered to graduate and undergraduate students of the

University of Connecticut (UCONN) on December 2005, and co-organized with Pieter Visscher and Tim Byrne, professors of Geology at UCONN.

Field Seminar: *Geologic Field Trip to the Permian Reef Complex, Guadalupe and Delaware Mountains, New Mexico-West Texas*. For UPRM and KU students by Dr. Goldstein, Dr. Frankseen, Dr. Santos and Dr. Ramírez. A trip to New Mexico and west Texas to visit and discuss in detail classic geologic exposures from the Ordovician to the Triassic in the Sacramento and Guadalupe Mountains. March 17 to 26 of 2006.

Taller: *Geología e Historia Natural de Puerto Rico*. Conferencias de geología y viajes al campo (field trips) para estudiantes doctorales que participan del proyecto "Puerto Rico Louis Stokes Alliance for Minority Participation" administrado por el Centro de Recursos para Ciencias e Ingeniería de la UPR (Prof. Javier Figueroa). Ofrecido los días del 26 al 28 de mayo del 2006.

Geomicrobiology Workshop - Offered to UPRM and UPRH students at The University of Connecticut (UCONN) Marine Science Department from June 10-18 of 2007 by Dr. Pieter Visscher (UCONN), Dr. Lilliam Casillas (UPRH), Dr. Carlos Ríos, and Dr. Wilson R. Ramírez (UPRM). Funded by an NSF-RUI Microbial Observatories Grant.

Minerals in Organo-Sedimentary Layers: geologic record and genesis. Invited Lecturer at UCONN Marine Sciences at Avery Point as part of a Geomicrobiology Workshop offered with Pieter Visscher for the project: RUI Microbial Observatories. Tuesday, June 12, 2007.

PROPOSALS SUBMITTED/APPROVED

Dinámica Geomorfológica, Sedimentaria y el Impacto del Cambio Climático sobre las Playas del Tramo Costero de Cabo Rojo, Bahía de las Águilas y Trudillé, Provincia Pedernales, R.D., Durante 2024-2026. Gladys Rosado (UASD-CIBIMA Dominican Republic), Wilson R. Ramírez-Martínez (UPRM Geology) and Diego V. Rivas (UASD-CIBIMA Dominican Republic). Submitted in 2023 to the Dominican Republic Science and Technology Program (Ministry of Science and Education of the Dominican Republic) Program FONDOCYT. Amount Requested: \$200,000. Time Frame: 2 years. *Approved*

Impacto del Cambio Climático y de las actividades antropogénicas sobre la geomorfología de las playas Sosua, Cabarete, Cofresí, Longbeach y Playa Dorada de Puerto Plata, R. D., durante los años 2017-20. Wilson R. Ramírez-Martínez (UPRM Geology), Rafael Mendez (UPRC) and Gladys Rosado (UASD-CIBIMA Dominican Republic). Submitted in 2017 to the Dominican Republic Science and Technology Program (Ministry of Science and Education of the Dominican Republic) Program. Amount Requested: \$300,000. Time Frame: 4 years. *Approved*

Estado de Contaminación por Metales Pesados en los Sedimentos del Río Ozama, República Dominicana. Wilson R. Ramírez-Martínez (UPRM Geology), Vera Cedeño (Dominican Geological Service), Yenny Rodríguez (Dominican Geological Service) and Australia Ramírez

(Dominican Geological Service). Submitted in 2015 to the Dominican Republic Science and Technology Program (Ministry of Science and Education of the Dominican Republic) Program. Amount Requested: \$300,000. Time Frame: 4 years. *Denied*.

Developing a fifteen-hundred-year record (6,200 +/- 80 to 4,760 +/- 90 yr B.P.) of sea surface temperature and coral reef development from a reef exposure in the Dominican Republic.

Wilson R. Ramírez-Martínez (UPRM Geology), Vera Cedeño (Dominican Geological Service), Rafael Mendez (UPRC) and Australia Ramírez (Dominican Geological Service). Submitted in 2013 to the Dominican Republic Science and Technology Program (Ministry of Science and Education of the Dominican Republic) Program. Amount Requested: \$100,000. Time Frame: 4 years. *Approved*

Developing a fifteen hundred year record (6,200 +/- 80 to 4,760 +/- 90 yr B.P.) of sea surface temperature and coral reef development from a reef exposure in the Dominican Republic.

Wilson R. Ramírez-Martínez (UPRM Geology) Submitted to the UPRM Art and sciences Program 2012 seed money proposals. Amount Requested: \$2,700.00. Time Frame: 1 year. *Approved*

Shoreline Changes along the coast of Puerto Rico. Wilson R. Ramírez-Martínez and Ruth Vélez (DRNA official and MS student of Wilson R. Ramírez-Martínez). Proposal submitted to the Puerto Rico Department of Natural Resources and the Environment (DRNA) for \$40,000.00 to buy equipment to measure the sediments and the position and morphology of the coastline of Puerto Rico at selected places. Time Frame: undetermined. *Approved*.

Shoreline Changes along Sardinera Beach, Mona Island, Puerto Rico. Wilson R. Ramírez-Martínez. Seed Money proposal submitted to the Sea Grant Program on September 2007 for \$1,200.00. Time Frame: 2 years. *Approved*.

Character and Timing of a Reef Give-Up Event on the Southwest Puerto Rico Shelf. Clark E. Sherman (UPRM Marine Sciences) and Wilson R. Ramírez-Martínez (UPRM Geology). Submitted to the UPRM Sea Grant College Program 2008-2010 round of proposals. Amount Requested: \$121,245.00. Time Frame: 2 years. *Approved*.

Developing a fifteen hundred year record (6,200 +/- 80 to 4,760 +/- 90 yr B.P.) of sea surface temperature and coral reef development from a reef exposure in the Dominican Republic.

Wilson R. Ramírez-Martínez (UPRM Geology) and Clark Sherman (UPRM Marine Sciences). Submitted to the UPRM Sea Grant College Program 2008-2010 round of proposals. Amount Requested: \$126,360.96. Time Frame: 2 years. *Denied*.

A proposal to establish Microbial Observatory in the Cabo Rojo Salterns, Combate, Puerto Rico. Submitted to RUI Microbial Observatories. Lilliam Casillas (UPRH), Carlos Ríos (UPRM), Wilson R. Ramírez (UPRM), and Pieter Vissher (UCONN): Submitted to the RUI Microbial Observatories Division of the National Science Foundation (NSF) and approved with a budget of \$115,329 per year for a duration of 5 years (2006 to 2011).

Using rRNA probes to Census Bacteria in sediments: A New Method to Determine the Benthic Impact of Anthropogenic Organic Loading. Patrick D. Rapp, Arturo A. Massol, Wilson R. Ramírez, José A. Rivera, Daniel D. Benetti. Pre-proposal to Sra Grant for \$60,000 per year, two years. February 2005. *Pre-proposal Approved, proposal Denied.*

Natural Trends vs. Anthropogenic Perturbation; a comparison between modern and fossil Holocene Reefs. Wilson R. Ramírez, Clark Sherman, Dennis K. Hubbard. Pre-proposal to Sea Grant for \$61,465 per year. Time Frame: 2 years. February 2005. *Denied.*

Natural Trends vs. Anthropogenic Perturbation; A Comparison between Modern and Fossil Holocene Reefs. Wilson R. Ramírez. Submitted to C.I.D. Seed Money in November 2003 for \$5,000.00. *Approved.*

Measurement of the Benthic Impact and the Benthic Loading from a Marine Fish Farm in Sub-Tropical Waters, Patrick D. Rapp, Wilson R. Ramírez, Daniel D. Benetti, Larry E. Brand and Jose A. Rivera. Submitted to NSF National Marine Aquaculture Initiative in January 2004 for \$20,000.00. Time Frame: 1 year. *Approved.* Publication: Rapp, Patrick; Ramírez, Wilson R.; Rivera, José A.; Carlo, Milton; Luciano, Roberto (2007) Measurement of Organic Loading Under an Open-Ocean Aquaculture Cage, Using Sediment Traps on the Bottom. Journal of Applied Ichthyology, Pages 1-7 (www.blackwell-synergy.com)

Status of Coral Reefs in Puerto Rico, Wilson R. Ramírez and Jack Morelock. Pre-proposal submitted to Sea Grant in March 2003 for \$121,456.52 *Denied.*

Measurement of the benthic loading from a mariculture operation, Patrick D. Rapp, Wilson R. Ramírez, Daniel D. Benetti, and Jose a Rivera. Pre-proposal submitted to Sea Grant in March 2003 for \$133, 084.00 *Approved.* Publication: Rapp, Patrick; Ramírez, Wilson R.; Rivera, José A.; Carlo, Milton; Luciano, Roberto (2007) Measurement of Organic Loading Under an Open-Ocean Aquaculture Cage, Using Sediment Traps on the Bottom. Journal of Applied Ichthyology, Pages 1-7 (www.blackwell-synergy.com)

Videos and TV Programs as educational tools. Submitted to NOAA on September 2002 for \$15,000. *Approved.* A video documentary titled: “*Aplicando Métodos de Monitoreo para determinar la condición de arrecifes de coral en Puerto Rico*” already produced and delivered to NOAA. NOAA has distributed the video to the academic and general community.

Coral monitoring survey for Southwest Puerto Rico. Wilson Ramírez and Jack Morelock. Submitted to NOAA on September 2002. *Denied.*

Survey of coral populations in the Buye Beach Area: a baseline for future assessment of the impact caused by coastal development of coral reefs. *Submitted for SEED money on May 2002 for \$3, 851.00.* *Approved.* Presentation in: Tercer Simposio de Investigación de Fondos Semilla del Colegio de Artes y Ciencias, UPRM. Jueves 8 de mayo de 2003.

Dolomitization of the Aymamón Limestone, Northern Puerto Rico. Submitted for SEED money and February 2000 (\$5,000.00). *Approved.* Publication and Presentation in: *Dolomitization in the Aymamón Limestone (Miocene) in Northern Puerto Rico*, Geological Society of America 2001 Annual Meeting & Exposition, Boston, Massachusetts, November 2001.

Dolomitization and Cave Formation in Mona Island. Wilson R. Ramírez. Proposal *Approved* in February 2001 (CID, \$5,000).

Paleontological and Petrological study of the White Wall-Sugar Loaf Carbonate Sequence in St Eustacious. Proposal submitted for Art and Sciences seed money in April, 2001 *Approved.*

Evaluation of the Effects of Sedimentation and Nutrients Coral and the Long Term Monitoring of Recovery after Environmental Stress at Mayagüez. Proposal by Morelock, J., and Ramírez, W., submitted to the Sea Grant Program (February 2001). \$120,000. *Approved.* Publication: Morelock, J., Ramírez, W., Bruckner, A., Carlo, M. (2001). Status of coral reefs southwest Puerto Rico, Caribbean Journal of Science, Special Publication #4, 57 pp.

PhD ADVISORS:

Dr. Ivan P. Gill, University of New Orleans, New Orleans, LA

Dr. William C. Ward, University of New Orleans, New Orleans, LA

CURRENT GRADUATE STUDENTS

Geology students currently doing M.S. under Wilson R. Ramírez supervision (2025-present):

Erika Pagán, M.S. Thesis Title: Developing Modern Analog Models for Shallow-water Tropical Systems with Adverse Photic Zone Conditions, Puerto Rico (colaborators: *Diana Ortega-Ariza and Evan K. Franseen, University of Kansas and Kansas Geological Survey*)

Irene Mendez, M.S. Thesis Title: Strontium Isotope ($^{87}\text{Sr}/^{86}\text{Sr}$) Stratigraphy (SIS) of Santonian, Campanian, and Maastrichtian Rudistid Bivalves from Western Puerto Rico (colaborators: *Hernán Santos, UPRM Geology; Diana Ortega-Ariza, University of Kansas and Kansas Geological Survey*)

SUPERVISED STUDENTS GRADUATED WITH A PH.D.

Kevián A. Pérez Valentín, Dissertation Title: *A Comprehensive Study of Beachrock in Puerto Rico: Morphology, Texture, Cementation and its Implications in Coastal Processes, Including Coastal Erosion (2023)*

Irma Caraballo, Ph.D. Dissertation Title: *Geomorphology; Geomorphology Department. UPRR with Maritza Barreto, Beachrock and it's Host Beach: Characterization and Relationship to Marine and Meteoric Environments* (2022)

Diana Ortega Ariza, Ph.D. Dissertation Title: *Geology Department. University of Kansas with Evan Franseen; Sequence Stratigraphy and Depositional Controls on Oligocene-Miocene Caribbean Carbonate-Dominated Systems, Puerto Rico and the Dominican Republic*, (2016)

David Cuevas Miranda, Ph.D. Dissertation Title: *Marine Sciences Dept. UPRM with Clark Sherman; Coral Growth Rates, Sedimentation Rates, Sediment Composition and Coral Cover in the Cañada Honda Reef, Dominican Republic* (2010)

SUPERVISED STUDENTS GRADUATED WITH M.S. IN GEOLOGY

Luis Alberto Espada Rivera, M.S. Dissertation Title: *Using Petrographic Techniques to Characterize Beach Sand Composition in Puerto Rico* (2025)

Juan Santos- December 2022; *Characterization of Seasonal Changes in Sand Texture and Composition of several beaches along Puerto Plata, Dominican Republic.*

Kateleen Vargas – May 2022; *Thesis Title: Geohydrology of the Unconfined Aquifer System and Geology of the Aymamón Formation, Puerto Rico*

Gwendelyn Monge – December 2018; *Thesis Title: Beachrock Characterization of and Distribution in ten locations along the coast of Puerto Rico.*

Yesenia Herrera – May 2018; *Thesis Title: Developing a fifteen hundred year record (6,200 +/- 80 to 4,760 +/- 90 yr B.P.) of sea surface temperature and coral reef development from a reef exposure in Cañada Honda, Dominican Republic*

Ashlyan Arana – May 2018; *Thesis Title: Developing a fifteen hundred year record (6,200 +/- 80 to 4,760 +/- 90 yr B.P.) of sea surface temperature and coral reef development from a reef exposure in Cañada Honda, Dominican Republic*

Luis Rodríguez – May 2018; *Thesis Title: Developing a fifteen hundred year record (6,200 +/- 80 to 4,760 +/- 90 yr B.P.) of sea surface temperature and coral reef development from a reef exposure in Cañada Honda, Dominican Republic*

Angel Jimenez - May 2018; *Thesis Title: Developing a fifteen hundred year record (6,200 +/- 80 to 4,760 +/- 90 yr B.P.) of sea surface temperature and coral reef development from a reef exposure in Cañada Honda, Dominican Republic*

Kevián Pérez Valentín – July 2016; Thesis Title: *Depositional and Diagenetical History of South East Dominican Republic, Mona and Monito Island: A Regional study.*

Jose Morales – May 2015; Thesis Title: *Developing a fifteen hundred year record (6,200 +/- 80 to 4,760 +/- 90 yr B.P.) of sea surface temperature and coral reef development from a reef exposure in Cañada Honda, Dominican Republic*

Elson Core – May 2015; Thesis Title: *Stratigraphy, Absolute Age, and Relative Sea-level History of Mixed Carbonate and Siliciclastic Sequences at North Eastern Dominican Republic*

Marianela Mercado Burgos – May 2012; Thesis Title: *Character and Timing of a Reef Give-Up Event on the Southwest Puerto Rico Shelf*

Yadira Soto Viruet – May 2011; Thesis Title: *Detecting Shoreline Changes in Puerto Rico using Remote sensing and Geographic Information Systems*

Jean Pablo Pabón Quiñones - May 2011; Thesis Title: *Sinkhole Exploration Project: A comparative Geophysical case study in a cover-collapse sinkhole, Manatí, Puerto Rico*

María Del C. Torres - December 2009; *Fluid Inclusions of Dolomites in Puerto Rico North Coast Middle Tertiary Limestones*

Vanessa Rosario - May 2007; *Characterization of the Texture, Composition and Porosity of the Aymamón Limestone Formation and Laboratory Derivation of Elastic Properties and Seismic Wave Velocities*

Verónica Acevedo Soto - May 2007; *Effects of Sedimentation on the Distribution and Ecology of the Reef Zoanthid Palythoa caribaeorum*

Alvin J. Bonilla Rodríguez - May 2007; *Sequence Stratigraphic Analysis of the Cotui Limestone, Upper Cretaceous, Southwestern Puerto Rico*

Johana Cepeda - May, 2006; *Seasonal Shoreline Changes along the North Coast of Puerto Rico from Isla de Cabras to Aguadilla*

Sonya Yvonne Hernandez - February 2006; *Stratigraphy and Sedimentology of the Lares Limestone, Oligocene, Puerto Rico*

Noelia Baez – December, 2005; *Stratigraphy of the Upper Silurian-Devonian Upper Helderberg Group in Northeastern West Virginia, USA*

Jeannette Arce Arce – July, 2005; *Remote Sensing of Benthic Habitats in Southwestern Puerto Rico*

Gretchen M. Chiques – July, 2005; *Spectral Characterization of Sand Beaches Sand in Western Puerto Rico*

Ismael Rodríguez – December, 2004; *Characterization of Temporal and Stratigraphic Changes in Texture, Composition, Nutrients, and Organic Content of Bottom Sediments in the Mayagüez Bay, Puerto Rico*

Damaris Torres Pulliza – December, 2004; *A Multisensor Comparison for Coral Reef Habitat Mapping: A Case Study Using a Path Reef Environment in Bicsayne Park, Florida*

Janiel Rivera Pinet – July, 2002; *Stratigraphy and Diagenesis of Pleistocene Eolian Deposits in the Northern Coast of Puerto Rico*

Michael Martínez – December 2002; *Distribución paleoecológica de Foraminíferos Bentónicos a través del límite Oligoceno-Mioceno en el Suroeste de Puerto Rico: ¿Implicación global o local?*

SUPERVISED UNDERGRADUATED STUDENTS (UNDERGRADUATE RESEARCH) (Last ten years)

Claudia Renta Ortiz: Millennial Changes in Dune Sand Texture and Composition at two locations along the North Coast of Puerto Rico (2026)

Jomar López Molina: Compositional variability between beachrock vs. beach sands in the same locations along northern and northeastern Puerto Rico (2026)

Claudia Renta Ortiz: High Resolution Periodic Oscillations in oxygen isotopes from Holocene Corals of the Cañada Honda Reef, Enriquillo Lake, Dominican Republic and their relationships to local and regional climate oscillations at yearly to decadal scales (2025)

Carlos Omar Rivera Ortiz: Measuring the areas covered by different coral species in Boca Prieto Bay, Cabo Rojo from 2002 to 2023 (2025)

Valeria Vargas Marfisi: Decadal shoreline and sediment changes in the Boca Prieta Bay, Cabo Rojo, Puerto Rico (2024)

Irene M. Méndez Curbelo: Measuring Sea Surface Temperature (SST) Variations in a Modern Coral from Boca Prieta Bay, Puerto Rico (2024)

Victoria R. Reyes Claudio: Detailed Characterization of the Beach Sand of Bahía de las Águilas Beach, Pedernales Province, Dominican Republic (2024)

Valeria A. Pérez Rivera: Shoreline Analysis of southern Playa Salinas, Cabo Rojo during the last 94 years (2024)

Valeria Vargas Marfisi: Detailed Characterization of the Sediments in Cabo Rojo Beach, Pedernales Province, Dominican Republic(2024)

Astrid N. Romero Vega: Changes in Coral populations from 2002 to 2023 in Boca Prieta Bay, Cabo Rojo Puerto Rico (2023)

Astrid Romero Vega: Study of Holocene SST periodic oscillations in the Paleo-Enriquillo Bay, Dominican Republic, documented from scleractinian corals (2023)

Joaris D. Hernández Morales: Study of Holocene SST periodic oscillations in the Paleo-Enriquillo Bay, Dominican Republic, documented from scleractinian corals (2023)

Pedro Rivera Ramos: Changes in coral populations from 2002 to 2023 in the Boca Prieta Coastal Area, Cabo Rojo, Puerto Rico (2023)

Diego E. Balay-Rivera: Shoreline dynamics during a time frame of 5 years in Buyé Beach, Cabo Rojo, Puerto Rico (2022)

Abimael Castro Rivera: Historical Coastline Change in Vega Baja between 1930 and 2017 using photo interpretation and Geographic Information System techniques (2022)

Alexandra M Grajales Perez: Developing a Sedimentological and Stratigraphic Framework for Paleoclimate Studies in Enriquillo Lake Sediments, Dominican Republic (2021)

James A. Padilla Montalvo: Petrology, Geochemistry and Age of the newly discovered Dolomites in Montalva Bay, Guánica, Puerto Rico (2021)

Jobel Y. Villafañe Pagán: Sedimentology and Stratigraphy of Enriquillo Lake Sediments, Framework for Paleoclimatic studies: 2020

James Padilla: Caracterización de Dolomitas recientemente descubiertas en afloramientos de calizas en Montalva, Guánica. 2020

Alexandra Grajales: Sedimentación y Estratigrafía de los Sedimentos del Lago Enriquillo, Republica Dominicana. 2020

Luis Espada: Composición de arenas en playas en Puerto Rico. 2020

Pedro León: Water column parameters, bathymetry and sediment texture and composition of Lake Enriquillo, Dominican Republic. 2019

Aliyah Chanbrier: Mineralogy of Stromatolites, Gúanica, Puerto Rico. 2019

Iremar Fernandez: Paleothermperature from Oxygen Isotopes from corals in western Puerto Rico. 2019

Tatiana Fernandez: Dolomitization of Neogene Limestones, Puerto Rico. 2018

Aliyah Chanbrier: Seasonal Changes in the Shoreline, Aerial Image Comparison, and Sand Composition in Alicia Beach, Puerto Plata, Dominican Republic. 2018

Iremar Fernandez: Survey of Coral Populations in Buye Beach, Cabo Rojo, Puerto Rico. 2018

Beverly Pabón: Survey of Coral Populations in Buye Beach, Cabo Rojo, Puerto Rico. 2018

Abimael Castro: Survey of Coral Populations in Buye Beach, Cabo Rojo, Puerto Rico. 2018

Giovanni Guzmán: Survey of Coral Populations in Buye Beach, Cabo Rojo, Puerto Rico. 2017

Elimar Torres: Temporal Changes in Sand Texture and Composition, Playa Machuca, Manatí, Puerto Rico. 2016

Estefanía Vincens: Petrology and Stable Isotope Analyses of *Kuphus incrassatus* samples from Rincón, Puerto Rico. 2016

Giovanni Guzmán: Survey of Coral Populations in the Barahona Bay, Dominican Republic. 2016

Alejandra Santiago: Sedimentological comparison between Eolian (Pleistocene) and Beachrock (Holocene) Deposits in Playa Machuca, Manatí, Puerto Rico. 2016

Miguel Loubriel: Variations in Beach Morphology and Sand Texture through time along the coast of Rincón, Puerto Rico. 2016

Irmarris Rivera: Growth Rates and SST (from stable isotopes) in Modern (Barahona, DR) vs. Holocene *Montastraea faveolata* corals (Cañada Honda, DR). 2016

Jose Paredes Rosario; Using Sr. Isotopes from *Kuphus incrasatus* tubes to determine absolute ages for Dominican Republic Neogene Limestones. 2015

Francesca Toledo: Using *Montastraea faveolata* as proxy for Caribbean SST during the Holocene, Enriquillo Lake, Dominican Republic. 2015

Maria Figueroa Matias; Growth Rates based on Sclerochronology and Sea Surface Paleotemperatures based on Isotopic Geochemistry using *Montastrea* sp. skeletons from a Holocene Coral Reef in Enriquillo Valley, Dominican Republic. 2015

Jessica Arnaldy Melendez: Seasonal Changes in the Shoreline, Aerial Image Comparison, and Sand Composition in Buye Beach, Cabo Rojo, Puerto Rico. 2015

Natalia I. Ramírez Irizarry: Neogene to Pleistocene Rocks of La Romana, DR. 2014

Sarymar Barreto Saavedra: Stratigraphy of the Limestone Rocks, Anguilla. 2014

Yiamar Rivera Matos: Chronostratigraphy of Los Haitises Formation, DR, using *Kuphus* *incrassatus* fossils and Strontium Isotopes. 2014

Katherine Vélez Serrano: Growth rates in Enriquillo Corals, DR, 2013

Marangely Gonzales: Oxygen Isotopes from Enriquillo Corals, DR, 2013

Marangely Gonzales: Growth rates in Enriquillo Corals, DR, 2012

Kevián A. Pérez: Dolomitization of Monito Island, P.R., 2011

Luis Montalvo: Using Sr isotopes for Geochronology of Tertiary Rocks in P.R., 2010

Crystina Rodríguez: A first look at the Geology of Monito Island, P.R., 2009

Krystina Scott: Coastal Erosion Study, Rincón, P.R., 2009

Krystina Scott: Coastal Erosion Study, Mona Island, P.R., 2008

Alejandra Rodriguez: Coastal Erosion Study, Mona Island, P.R., 2007

Tanisha Rivera: Cathodoluminescence of Puerto Rico North Coast Dolomites, 2007

Keyla Sepulveda: Benthic Mapping along the shelf of Mona Island, P.R..2006

Belyneth Deliz: Benthic Mapping in the Parguera and Guanica Shelf, P.R..2006

Yamira Adorno: Dolomitization in Mona Island, P.R..2006

Tanisha Rivera: Characterization of the Cañada Honda Fossil Reef Surface, D.R., 2006

Keyla Sepulveda: Climate data from Caribbean Corals: A Calibration, 2005

Belyneth Deliz: Growth rates of modern vs. fossil corals of the same species, 2005

Viviana Diaz: Terrigenous sedimentation, growth rate and morphology of Holocene Fossil corals in the Enriquillo Valley, Dominican Republic, 2005

Denise Echavez: Impact of fish farming on benthic foraminifera populations in Culebra, Puerto Rico, 2005

Maria Torres: Strontium isotopes from *Kuphus incrasatus* tubes to determine absolute dates in Puerto Rico Tertiary Limestones, 2005

COURSES TAUGHT:

Physical Geology, Physical Geology Laboratory, Mineralogy Laboratory, Historical Geology Laboratory, Environmental Geology, Introduction to Marine Geology, Marine Geology, Marine Geology Laboratory, Optical Mineralogy, Optical Mineralogy Laboratory, Sedimentation, Carbonate Sedimentology, Carbonate Sedimentology Laboratory, Carbonate Petrography, Carbonate Petrography Laboratory, Carbonate Microfacies, Graduate Seminar, Undergraduate Seminar, Graduate Research, Undergraduate Research, Research and Thesis, Special problems in Petrology, Special Problems in Geology, Special Problems in Sedimentology, Field Seminars in Carbonate Sedimentology.

RECENT EXPERT AND CONSULTING JOBS

2017 to Present. Professional Geologist - Consultant in Geology for Universidad Autónoma de Santo Domingo, Dominican Republic.

2010 to Present: Judicial District of Arecibo. Case # C PE2009-0126. Luis R Colón Mora and others vs. Bloques Ecológicos Otero Inc.

2016 – 2022. Professional Geologist - Consultant in Geology for the National Geological Service, Dominican Republic (SGN).

2013 to 2015. Geological Consulting for McConnel Valdés LIC and Bristol-Myers Squibb Holdings Pharma LTD Liability Company in Bristol-Myers Squibb Holdings Pharma LTD Liability Company vs. Davidson Well Drilling Ltd. Case # C AC 2009-0903(401)

2010 to 2015. Professional Geologist - Consultant in Geology for the National Geological Service, Dominican Republic.

2007 to 2009. Appeals Court, Judicial District of Ponce. Case # KLRA200900026. Jorge Padilla y/o Michelle Tirado vs. Aljeco Inc.

2008. Department of Consumer Affairs (DACO), Claim # 50009819. Carmen Arcelai vs. Cerrillos, INC y Larimar Construction Comp.

2006 to 2007. Department of Consumer Affairs (DACO), Claim # 50004391. Jorge Padilla y/o Michelle Tirado vs. Aljeco Inc.

REFERENCES:

Available upon request.