
CARLA RESTREPO

Department of Biology
NCN-Fase I, Room 136
University of Puerto Rico-RP
San Juan, Puerto Rico, 00931-3360

telephone: (787) 764-0000 x 4879
fax: (787) 764-2610
e-mail: crestre@hpcf.upr.edu
www: tselab.uprrp.edu

EDUCATION

Ph.D. 1995. University of Florida, Edges, fruits, frugivores, and seed dispersal in a Neotropical Montane Forest.

Advisor: Douglas Levey.

M.Sc. 1990. University of Florida, Cooperative breeding in *Semnornis ramphastinus* (Capitonidae), a frugivorous bird. Advisor: Peter Feinsinger, Co-advisor: Douglas Levey.

B.Sc. 1984. Universidad del Valle, Colombia, *Seed dispersal of mistletoes by birds*¹. Advisor: Humberto Alvarez-Lopez.

Organization for Tropical Studies, San José, Costa Rica, *Tropical Ecology and Conservation*: 88-2 course. 1988.

POSITIONS

Visiting Professor, Universidad del Valle, Cali, Colombia, January 2020 – June 2020

Full Professor, University of Puerto Rico-Río Piedras, PR, 2015-present.

Associate Professor, University of Puerto Rico-Río Piedras, PR, 2008-2015.

Assistant Professor, University of Puerto Rico-Río Piedras, PR, 2001-2008.

Research Assistant Professor, University of New Mexico, NM. 2000-2001.

Postdoctoral Research Fellow, University of New Mexico, NM (with Bruce Milne and Jim Brown). 1997-1999.

Visiting Scholar, Stanford University, CA (with Peter Vitousek). 1996-1997.

Research Associate, University of Florida, FL (with Crawford. S. Holling). 1996.

Research Associate, Observatorio Sismológico del Suroccidente de Colombia-UV, Colombia, 1996-2005.

Graduate Teaching Assistant, Department of Zoology, University of Florida, FL. 1990-1995.

Graduate Research Assistant, Department of Zoology, University of Florida, FL. 1988.

Research Coordinator, Reserva Natural La Planada, FES, Colombia 1992-1993.

Research Associate, Sociedad Vallecaucana de Ornitología, Colombia. 1986-1988.

Ecologist, Centro de Datos para la Conservación-CVC, Colombia. 1984-1986.

Undergraduate Teaching Assistant, Departamento de Biología, Universidad del Valle, Colombia. 1980-1981.

FELLOWSHIPS AND AWARDS –

Fulbright Fellowship. 2000.

National Science Foundation Minority Postdoctoral Research Fellowship. 1996-1998.

College of Liberal Arts and Sciences Dissertation Fellowship, University of Florida, FL. 1995.

Department of Zoology Travel Award, University of Florida, FL. 1995.

Russell Dissertation Fellowship, College of Liberal Arts and Sciences, University of Florida, FL. 1994.

Graduate School Travel Award, University of Florida, FL. 1993.

Marcia Tucker Travel Award, American Ornithologists' Union, USA. 1990.

National Science Foundation Minority Graduate Fellowship. 1989-1992.

Jessie Smith Noyes Fellowship to attend Organization for Tropical Studies course. 1988.

HONORS

Elective Member of the American Ornithologist Society. 2009.

¹ In italics translations from Spanish

GRANTS

- National Science Foundation, HRD Advance Catalyst, Catalyst: Virtual Observatory of Culture for Equity in Academia at the University of Puerto Rico Rio Piedras campus (VoCEA), 2023 (PI; Co-PIs Grisele Gonzalez and Carmen Maldonado), \$2999,999
- Puerto Rico Science and Technology Trust. Landsliding and rhizobiota link the short- and long-term carbon cycles: A “multi-omic” approach, 2022 (PI), \$70,000
- National Science Foundation, Research Experience for Post-Baccalaureate Students (REPS) in the Biological Sciences, 2021-2022 (PI), \$41,405
- National Science Foundation, DEB Ecosystem Studies, Supplement - Linking ecosystem and geomorphic processes to understand the large-scale dynamics of tropical mountains mediated by landsliding, 2019-2023 (PI), \$97,416.00
- National Science Foundation, DEB Ecosystem Studies, Linking ecosystem and geomorphic processes to understand the large-scale dynamics of tropical mountains mediated by landsliding, 2016-2019 (PI), \$499,000.
- Puerto Rico Idea Network Biomedical Research Excellence-NIH. Landsliding and rhizobiota link the short- and long-term carbon cycles: A metagenomic approach. 2016 (PI), \$5,000.
- Puerto Rico Science and Technology Trust. Robustness of developmental trajectories to varying temperatures in a tropical vertebrate. 2016-2017 (PI), \$68,000.
- National Science Foundation, DEB Ecosystem Studies, Collaborative Research-Landsliding, land-use change, and carbon dynamics in a Central American mountainscape. 2009-2012 (PI), \$401,491.
- Planet Action. The Contribution of Landsliding and Deforestation to Land-cover Change. 2009 (PI)
- Planet Action. Patterns and Mechanisms of Invasion by Exotic Vines in the Tropical Island of Puerto Rico. 2009 (Co-PI)
- National Science Foundation, GEO-EAR, SGER: Development of a landscape approach for understanding the contribution of landsliding to carbon budgets: Using the Rio Jones of the Sierra de Las Minas, Guatemala as a test watershed. 2009-2010 (PI), \$40,000.
- FIPI-Deanship of Graduate Studies and Research-University of Puerto Rico-Rio Piedras. Resilience thinking for the sustainable management of the Rio Grande de Arecibo watershed: The use of a spatially explicit framework for understanding responses to perturbations. 2008-2010 (PI), \$50,000.
- U. S. Department of Agriculture, International Institute of Tropical Forestry, Convening the First Symposium-Workshop on Landslide Ecology-A Perspective from Tropical Mountains, Kunming, China, July 2006 (PI), \$3,000
- National Science Foundation, GEO-EAR, Convening the First Symposium-Workshop on Landslide Ecology-A Perspective from Tropical Mountains, Kunming, China, July 2006 (PI), \$5,000
- Centro de Recursos para la Ingeniería y las Ciencias-Universidad de Puerto Rico, NSF-PR-EPSCoR, Landslides and their contribution to land cover change: Implications for local, regional, and global carbon budgets (PI), 2005-2007, \$200,000
- FIPI-UPR-RP, Multimodality in the distribution of body size and complex allometries in animal assemblages: An ecological puzzle and its implication for conservation (PI). 2003-2005, \$25,000
- National Science Foundation, HRD-CREST- 0206200 - Center for Tropical Applied Ecology and Conservation-UPR-RP (co-PI; PI E. Cuevas). 2002-2007, \$5,000,000
- National Science Foundation, DEB, Self-organization of Semi-Arid Landscapes: Tests of Optimality Principles (Co-PI; PI, B. Milne). 2000, \$674,911
- Fondo para la Protección del Medio Ambiente José Celestino Mutis, *Seed dispersal in tropical mountains affected by large-scale natural disturbances*. 1995, \$10,000.
- Fundación para la Promoción de la Investigación y la Tecnología-Banco de la República, *Efecto de Borde sobre la Comunidad de Aves Frugívoras y el Recurso Fruta en un Bosque Tropical de Montaña*, 1991-1992, \$7,021
- Wildlife Conservation International. Edge Effects on the Bird Frugivore Assemblage and the Fruit Resource Base in a Tropical Cloud Forest. 1992. \$12,000,
- Tinker Field Research Grant, Center for Latin American Studies, University of Florida. *Edge Effects on Fruit Production in a Tropical Montane Forest*, 1991, \$1,280
- Tropical Conservation and Development Program-University of Florida, *Edge Effects on Pre-dispersal Fruit Damage and Fruit Removal: Two Components of Plant Reproductive Success*. 1991, \$1,433.
- Douroucouli Foundation, Cooperative Breeding and Habitat Utilization by *Semnornis ramphastinus* (Aves: Capitonidae). 1989, \$1,000.

- Frank M. Chapman Memorial Grant. Social Organization and Habitat Utilization by *Semnornis ramphastinus* (Aves: Capitonidae). 1989, \$900
- American Federation of Aviculture, Inc. Social Organization and Habitat Utilization by *Semnornis ramphastinus* (Aves: Capitonidae). 1989, \$500
- Sigma XI Grant-in-Aid of Research, Male parental care in *Semnornis ramphastinus*. 1988, \$300.
- Hummingbird Society, Natural History of *Semnornis ramphastinus* (Aves: Capitonidae), a vulnerable species. 1988, \$792.
- Fundación para la Educación Superior-FES. *Natural History of Semnornis ramphastinus (Aves: Capitonidae), a vulnerable species*. 1989.
- Fundación para la Promoción de la Investigación y la Tecnología, Banco de la República. *Natural History of Semnornis ramphastinus (Aves: Capitonidae), a vulnerable species*. 1986-1987. \$7,640
- Fondo para la Protección del Medio Ambiente José Celestino Mutis. *Natural History of Semnornis ramphastinus (Aves: Capitonidae), a vulnerable species*. 1986-1987. \$3,300
- International Council for Bird Preservation-Pan American Section. *Natural History of Semnornis ramphastinus (Aves: Capitonidae), a vulnerable species*. 1986-1987, \$2,000
- Fundación Natura and Corporación Autónoma Regional del Cauca, *Threatened plant communities in the Valle del Cauca, Colombia: Changes between 1950-1980*. 1986, \$10,000.
- Universidad del Valle, *Seed dispersal of mistletoes by birds*. 1982, \$300.

PUBLICATIONS (excludes abstracts; students-postdocs underlain)

- Hulshof, C. M., J. D. Ackerman, R. A. Franqui, A. Y. Kawahara and C. **Restrepo**. 2023. Temperature seasonality drives taxonomic and functional homogenization of tropical butterflies. *Diversity and Distributions* DOI: 10.1111/ddi.13814
- Álvarez-Vargas, F. J., M. A. Villa Castaño, and C. **Restrepo**. 2022. Demand for ecosystem services in tropical small mountainous watersheds prone to landslides drive large-scale shifts in land-use. *Remote Sensing* 14, 3097. <https://doi.org/10.3390/rs14133097>
- Garnica, C., R. Berazaín Iturralde, B. Cabrera, E. Calderón, R. García, J. L. Gómez, A. F. Guimarães, E. Medina, A. L. D. Paul, N. Rajakaruna, C. **Restrepo**, S. J. Siebert, E. van den Berg, A. van der Ent, G. Velasquez, C. Hulshof. 2022. Global plant ecology of tropical ultramafic ecosystems. *The Botanical Review* <https://doi.org/10.1007/s12229-022-09278-2>
- Restrepo, C., D. L. Delgado, D. Dolfi, and J. DeFreitas. 2022. Phenological trajectories of tropical dry forests diverge under different geologic substrates. *Biotropica* 54, 933– 946. <https://doi.org/10.1111/btp.13117>
- Ostertag, R., C. **Restrepo**, J. W. Dalling, P. H. Martin, and others. 2021. Litter decomposition rates across tropical montane and lowland forests are controlled foremost by climate. *Biotropica* 54, 309-326. <https://doi.org/10.1111/btp.13044>
- Ortiz Y., C. Restrepo, B. Vilanova-Cuevas, E. Santiago-Valentin, S. G. Tringe, and F. Godoy-Vitorino. 2020. Geology and Climate influence rhizobiome composition of the phenotypically diverse tropical tree *Tabebuia heterophylla*. *PlosOne* 15(4): e0231083. <https://doi.org/10.1371/journal.pone.0231083>
- Colon, J. and C. Restrepo. 2019. Water quality and socio-economic indicators are linked in a tropical watershed: Emerging implications for the sustainable management of waterscapes. *Wetlands* 39, 1303–1316 (2019). <https://doi.org/10.1007/s13157-019-01232-0>
- Murry, B., J. Bowden, B. Branoff, M. Garcia-Bermudez, B. A. Middleton, J. Ortiz-Zayas, C. **Restrepo**, and A. Terando, 2019. Perspective: developing flow policies to balance the water needs of humans and wetlands requires a landscape scale approach inclusive of future scenarios and multiple timescales. *Wetlands* 39, 1329–1341 (2019). <https://doi.org/10.1007/s13157-019-01184-5>
- Delgado, D. L. and C. **Restrepo**. 2019. Multi-driver and multi-scale assessment of vine community structure and composition across a complex tropical environmental matrix. *PLOS ONE* e0215274 14(5). <https://doi.org/10.1371/journal.pone.0215274>
- Ernest, M. S. K., G. M. Yenni, G. Allington, E. Bledsoe, E. Christensen, R. Diaz, J. Goheen, Q. Guo, E. Heske, D. Kelt, J. Meiners, J. Munger, C. **Restrepo**, D. Samson, M. Schutzenhofer, M. Skupski, S. Supp, K. Thibault, S. Taylor, E. White, D. Davidson, J. H. Brown, and T. J. Valone. 2018. The Portal Project: a long-term study of a Chihuahuan desert ecosystem. *bioRxiv* 332783; doi: <https://doi.org/10.1101/332783>
- Colon, Z., L. Rosario, and C. **Restrepo**. 2017. Retrofitting rodent housing for captive breeding of the direct developing frogs *Eleutherodactylus coqui* and *E. antillensis*: from troubleshooting to monitoring. *Herpetological Review* 48:368-375.

- Delgado, D. L., J. Figueroa and **C. Restrepo**. 2016. Vine assemblages in a tropical island are diverse: Predicting invasiveness from multiple traits. *Ecology and Evolution* 6: 8832–8845. doi: 10.1002/ece3.2588
- Monmany, A. C., M. Yu, C. Restrepo and J. K. Zimmerman. 2015. How are landscape complexity and vegetation structure relate across an agricultural frontier in the subtropical Chaco, NW Argentina? *Journal of Arid Environments* 123: 12-20.
- McAdams, B. C., A. M. Trierweiler, S. A. Welch, **C. Restrepo**, and A. E. Carey. 2015. Two sides to every range: orographic influences on CO₂ consumption by silicate weathering. *Applied Geochemistry* 63: 472-483
- Xu, L., E. J. Bedrick, T. Hanson, and **C. Restrepo**. 2014. Statistical tools for identifying modality in body mass distributions. *Journal of Data Science* 12: 197-215.
- Sutton, L. and **C. Restrepo**. 2013. Natural disasters, diverse economy and livelihoods in the Sierra de Las Minas, Guatemala. *Journal of Latin American Geography* 12: 137-164.
- Delgado, D. L., A. Galindo, M. E. Perez, T. Giray, and C. Restrepo. 2012. Forecasting the influence of climate change on agroecosystem services: Impacts on honey yields in a small-island developing state. *Psyche: A Journal of Entomology*, doi:10.1155/2012/951215.
- Ramos-Scharron, C., E. Castellanos, and C. Restrepo. 2012. The role of shallow landslides in the downslope transfer of organic matter and its implications on the residence time of carbon in a tropical mountain system. *Journal of Geophysical Research - Biogeosciences* 117, G03016. doi:10.1029/2011JG001838
- Xu, L., T. Hanson, E. Bedrick, and **C. Restrepo**. 2010. Hypothesis tests on mixture model components with application to ecological and agricultural data. *Journal of Agricultural, Biological, and Environmental Statistics* 15:308–326. DOI: 10.1007/s13253-010-0020-z
- Restrepo, C., L. Walker, A. Shiels, R. Bussman, L. Claessens, S. Fisch, P. Lozano, G. Negi, L. Paolini, G. Poveda, C. Ramos-Scharron, M. Richter, E. Velazquez.** 2009. Landsliding and its multi-scale influence on mountainscapes. *BioScience* 59:685-698.
- Restrepo, C., J. Gonzalez García, J. C. Castro Hernandez, and Saul Hernandez Bezares.** 2008. Landslides, natural protected areas and the long-term management of mountainscapes: emerging challenges from the study of the El Triunfo Biosphere Reserve, Chiapas, Mexico. Pages 317-319. *Proceedings of the The First World Landslide Forum, Kyoto, Japan.* (http://www.iclhq.org/WLFweb/WebProceedings_Index.htm)
- Restrepo, C.** and N. Arango. 2008. Discontinuities in the Geographical Range Size of North American Birds and Butterflies: A Biogeographical Test of the Textural Discontinuity Hypothesis. Pages 101-135 in C. Allen, G. Peterson, and C. S. Holling (eds.). *Cross-scale Structure and Discontinuities in Ecosystems and other Complex Systems.* Columbia University Press, New York, New York, US.
- Delgado-Acevedo, J. and **C. Restrepo**. 2008. The effect of habitat loss on body size, allometry, and bilateral asymmetry in two *Eleutherodactylus* species of Puerto Rico. *Conservation Biology* 22:773-782 Doi: 10.1111/j.1523-1739.2008.00930.x
- Allen, A., B. T. Milne, W. Pockman, A. Tyler, and **C. Restrepo**. 2008. Allometry, growth, and population regulation of the desert shrub *Larrea tridentata*. *Functional Ecology* 22:197-204. doi: 10.1111/j.1365-2435.2007.01376.x
- Acevedo, M. and **C. Restrepo**. 2008. Land-use change and the large-scale organization of bird assemblages in the island of Puerto Rico. *Diversity and Distributions* 14:114-122.
- Cuervo, A. and **C. Restrepo**. 2007. Assemblage and population-level consequences of forest fragmentation on bilateral asymmetry in tropical montane birds. *Biological Journal of the Linnean Society* 92:119-133.
- Allen C. R., A. S. Garmestani, T. D. Havlicek, P. A. Marquet, G. D. Peterson, **C. Restrepo**, C. A. Stowe, B. Weeks. 2006. Patterns in body mass distributions: Sifting among alternative hypotheses. *Ecological Letters* 9:630-643. doi: 10.1111/j.1461-0248.2006.00902.x
- Restrepo, C.** and N. Alvarez. 2006. Landslides and their impact on land-cover in the mountains of Mexico and Central America. *Biotropica* 38:446-457. DOI: 10.1111/j.1744-7429.2006.00178.x
- Restrepo, C., P. Vitousek, and P. Neville.** 2003. Landslides significantly alter land cover and the distribution of biomass: An example from the Ninole ridges of Hawai'i. *Plant Ecology* 166:131-143. doi: 10.1023/A:1023225419111
- Milne, B. T., V. K. Gupta, and **C. Restrepo**. 2002. A scale invariant infiltration law that couples plants, water, and energy. *EcoScience* 9:191-199.
- Brown, J. H., V. K. Gupta, B-L. Li, B. T. Milne, **C. Restrepo**, and G. B. West. 2002. The fractal nature of nature: Power laws, ecological complexity, and biodiversity. *Philosophical Transactions of the Royal Society of London Series B-Biological Sciences* 357:619-629. doi: 10.1098/rstb.2001.0993

- Restrepo, C.**, S. Sargent, D. Levey, and D. Watson. 2002 The role of vertebrates in the diversification of New World mistletoes. Pages 83-98, in D. J. Levey, W. R. Silva, and M. Galetti, eds. *Seed Dispersal and Frugivory: Ecology, Evolution and Conservation*. CABI Publishing, Wallingford, Oxfordshire, UK.
- Restrepo, C.** 2002. *Frugivory: More than a feeding habit*. in M. Guariguata and G. Kattan, editors. *Tropical Ecology*. CATIE, Costa Rica.
- Restrepo, C.** and P. Vitousek. 2001. Landslides, alien species, and the diversity of a Hawaiian montane mesic ecosystem. *Biotropica* 33:409-420. DOI: 10.1111/j.1744-7429.2001.tb00195.x
- Restrepo, C.** and A. Vargas. 1999. The influence of treefall gaps and anthropogenic edges on seed germination and seedling growth of two understory Neotropical shrubs. *Oecologia* 119:419-426
- Restrepo, C.**, N. Gómez, and S. Heredia. 1999. Anthropogenic edges, treefall gaps, and fruit-frugivore interactions in a Neotropical montane forest. *Ecology* 80:668-685. doi: 10.1890/0012-9658(1999)080[0668:AETGAF]2.0.CO;2
- Restrepo, C.** and N. Gómez. 1998. Responses of understory birds to anthropogenic edges in a Neotropical cloud forest. *Ecological Applications* 8:170-183.
- Restrepo, C.** and M. Mondragón. 1998. Cooperative breeding in the frugivorous Toucan Barbet (*Semnornis ramphastinus*: Capitoninae: Ramphastidae). *The Auk* 115:4-15.
- Restrepo, C.**, L. M. Renjifo, and P. Marples. 1997. Frugivorous birds in fragmented Neotropical montane forests: Landscape pattern and body mass distribution. Pages 171-189, in W.F. Laurance and R. O. Bierregaard, Jr., editors. *Tropical Forest Remnants: Ecology, Management, and Conservation of Fragmented Communities*. The University of Chicago Press, Chicago, IL.
- Laurence, W. F., R. O. Bierregaard Jr., C. Gascon, R. K. Dirham, A. P. Smith, A. J. Lynam, V. M. Viana, T. E. Lovejoy, K. E. Sieving, J. W. Sites Jr., M. Andersen, M. D. Tocher, E. Kramer, **C. Restrepo**, and C. Moritz. 1997. Tropical forest fragmentation: Synthesis of a diverse and dynamic discipline. Pages 502-514, in W.F. Laurance and R. O. Bierregaard, Jr., editors. *Tropical Forest Remnants: Ecology, Management, and Conservation of Fragmented Communities*. The University of Chicago Press, Chicago, IL.
- Bierregaard, R. O. Jr., W. F. Laurance, J. W. Sites Jr., A. J. Lynam, R. K. Dirham, C. Gascon, M. D. Tocher, A. P. Smith, V. M. Viana, T. E. Lovejoy, K. E. Sieving, E. A. Kramer, **C. Restrepo**, and C. Mortiz. T. 1997. Key priorities for the study of fragmented tropical ecosystems. Pages 515-526, in W.F. Laurance and R. O. Bierregaard, Jr., editors. *Tropical Forest Remnants: Ecology, Management, and Conservation of Fragmented Communities*. The University of Chicago Press, Chicago, IL.
- Martínez del Río, C. and **C. Restrepo**. 1993. Ecological and behavioral consequences of digestion in frugivorous animals. *Vegetatio* 107/108:205-206.
- Restrepo, C.** y A. Duque. 1992. *Plant communities of the Llano de Paletará paramo, Cordillera Central, Colombia*. *Caldasia* 17:21-34.
- Restrepo, C.** y L. G. Naranjo. 1992. *Changes in the distribution of aquatic ecosystems and birds in the Valle del Cauca, Colombia, between 1950-1980*. *Proceedings of the III Neotropical Ornithological Congress*, Cali, Colombia.
- Restrepo, C.** 1987. *Seed dispersal of five species of mistletoes by birds*. *Humboldtia* 1: 6-16.
- Restrepo, C.** and A. S. H. Breure. 1987. *Drymaeus zingarensis*, a new land-snail from Colombia (Gastropoda: Pulmonata: Bulimulidae). *Basteria* 51:141-144.
- Kattan, G., **C. Restrepo** y M. Giraldo. 1984. *Structure and composition of a tropical cloud forest in the Cordillera Occidental, Valle del Cauca, Colombia*. *Cespedesia* 13:23-43.
- Restrepo, C.**, M. Giraldo y F. J. Borrero. 1983. *Land-snails of the interandean Cauca dry forest*. *Cespedesia* 12:111-124.

Manuscripts in review

- Ben-Mocha: Y. M. Woith, S. M. Drobniak, S. Markman, F. Frisoni, L. Bruscagnin, V. Baglione, J. Boersma, L. Cousseau, R. Covas, G. H. Braga de Miranda, C. J. Dey, C. Doutrelant, R. Gula, R. Heinsohn, S. A. Kingma, Ji. Li, K.-M. Middleton, A. N. Radford, **C. Restrepo**, D. R. Rubenstein, C. Schradin, J. Theuerkauf, M. H. Warrington, D. A. Williams, Ii. A. Woxvold, M. Griesser. Advancing cooperative breeding research with an integrative, peer-reviewed and updatable Cooperative-Breeding Database (Co-BreedD)

Manuscripts in preparation (students underlined)

- Cruz Perez, R. and **C. Restrepo**. Root tensile strength correlates with abiotic and biotic conditions: A macroecological approach. To be submitted to

- Díaz Vallejo, E., Y. Ortiz, A. Sacbajá, and **C. Restrepo**. Belowground ecosystem attributes vary along a topographic fire matrix in a tropical montane mesic forest. To be submitted to *Ecosystems*
- Colón, Z., J. Delgado-Acevedo, and **C. Restrepo**. Skeletal abnormalities in two *Eleutherodactylus* species: A hidden effect of land-cover change on species diversity
- Cuervo, A. M. and **C. Restrepo**. Testing the phenotypic consequences of habitat fragmentation on five Neotropical montane birds (to be submitted to *BMC Ecology*).
- Heredia, S. E. Bruna, H. Vasconcelos, M. E. Perez, and C. Restrepo. Forest fragmentation and the spatial distribution of an ant-plant mutualism in Central Amazonia (to be submitted to *Ecology*)
- Sanchez, X., R. Torres, J. Gonzalez, F. Axelrod, and C. Restrepo. Mistletoe distribution in Puerto Rico: The contribution of climate and hosts to island-wide patterns of species richness (to be submitted to *Journal of Biogeography*)
- Delgado-Acevedo, J., C. Restrepo, and E. Rosa-Molinar. Measurement of morphological characters and fluctuating asymmetry in frogs: Advantages and disadvantages of imaging techniques.
- Restrepo, C. and A. Cuervo. Body size serves to fingerprint bird communities in fragmented habitats (to be submitted to *Nature*)
- Muñoz, M., M. Caraballo, and **C. Restrepo**. Land-cover change and patterns of tree infection by the mistletoe *Dendropemon caribaeus* (Loranthaceae) in northern Puerto Rico (*Landscape Ecology*)
- Villanueva, L., J. Delgado-Acevedo, M. I. Herrera, F. Castro, and C. Restrepo. Body size in neotropical amphibian communities and its role in predicting their conservation status.
- Restrepo, C. and P. Amézquita. Pollination and fruit set in two understory Neotropical shrubs are affected differently by anthropogenic edges (to be submitted to *Oecologia*)
- Restrepo, C., D. Kerkhoff, B. Milne, S. Ellen, M. Larsen, and T. Blodgett. Landslides and the organization of tropical mountains: Scale-invariance in the distribution of landslide sizes (to be submitted to *Ecology*)
- Milne, B., C. Restrepo, and D. Kerkhoff. Multiscale assessment of structure and noise in species range maps.
- Restrepo, C., M. Anand, A. Kerkhoff, B. T. Milne, E. White, and A. Hurlbert. Ecological surfaces: Scaling relationships and process.
- Restrepo, C., F. Prado, and H. Bedoya. Succession trajectories on Colombian landslides: The role of geological substrate.
- Velásquez, A., J. Mendoza, and C. Restrepo. Landslide susceptibility in the Nima watershed, Colombia.

Other

- Restrepo, C.**, C. Maldonado, Vilmalí López-Mejías, Yarimar Rosa-Rodríguez, Elithet Silva-Martínez, María E. Pérez, Grisele Melendez-Ramos, and Humberto Cavallín. 2022. Gender Inequality among Faculty at the University of Puerto Rico Río Piedras Campus – a ViDAS-VoCEAReport. University of Puerto Rico at Río Piedras, San Juan, PR.
- Restrepo, C.**, P. Salaman, y Andrés Cuervo. 2002. *Pipreola chlorolepidota*. en: Renjifo, L. M., A. M. Franco-Maya, J. D. Amaya-Espinel, G. Kattan y B. López-Lanús (eds.). 2002. Libro rojo de aves de Colombia. Serie Libros Rojos de Especies Amenazadas de Colombia. Instituto de Investigación de Recursos Biológicos Alexander von Humboldt y Ministerio del Medio Ambiente. Bogotá, Colombia
- Restrepo, C.** 1993. *The Colombian Chocó region: A world to discover, a world to preserve*. Pages 811-815, in P. Leyva, editor. Colombia: Pacífico. Fondo FEN, Bogotá, Colombia.
<https://babel.banrepcultural.org/digital/collection/p17054coll10/id/2807/>
- Restrepo, C.** and M. Mondragón. 1988. The Toucan Barbet *Semnornis ramphastinus*, a threatened bird species. *Trochilus* 9:116-117 (in German)
- Restrepo, C.** and M. L. Mondragón. 1986. *El ave del mes: El Compás (Semnornis ramphastinus)*. *Rupicola* 6(3-4)
- Restrepo, C.** 1985. *La Reserva Natural de Sonso, una reserva de segunda*. *Rupicola* 5(5-6): 1-4.
- Restrepo, C.** 1985. *Ecosistemas del Valle del Cauca: El Bosque de Neblina. Páginas 18-19. En Fundación para la Educación Superior y Cámara del Comercio de Cali (editores). Valle del Cauca: Una Visión Ecológica.* 24 p.
- Restrepo, C.** 1984. *El Sistema de cortejo communal Lek*. *Rupicola* 4(11): 1-4
- Restrepo, C.** 1984. *El ave del mes: Pipreola riefferi*. *Rupicola* 4(8): 6-8.
- Restrepo, C.** 1983. *El ave del mes: Los Gallitos de Roca*. *Rupicola* 3(8-12): 5-8

INVITED TALKS (students and postdocs underlined)

- Restrepo, C.** 2024. Understanding the spread of invasive vines in Puerto Rico requires multiple approaches and involves numerous stakeholders. Seminario Departamental Departamento de Biología, Universidad de Puerto Rico reciento Mayaguez, Mayaguez, Puerto Rico.
- Restrepo, C.** 2024. Integrating soils, plants, and micro-organisms to understand the large-scale dynamics of mountainscapes mediated by landslides. Ciclo de Conferencias Científicas al Día, Universidad de Puerto Rico Río Piedras, San Juan, Puerto Rico.
- Restrepo, C.** and **G. Gonzalez.** 2023. Paisajes montañosos tropicales y uso de agua: Una mirada histórica de Puerto Rico muestra efectos diversos del pago por servicios ambientales derivados del agua. IV Simposio Internacional de Aguas Continentales de las Américas Panajachel, Sololá, Guatemala
- Restrepo, C.** 2002. Gender Equity in STEM: An unfolding story at the University of Puerto Rico Río Piedras campus. Forward Meeting PRSTT, San Juan, Puerto Rico.
- Restrepo, C.** [speaker], L. Ospina, F. Alvarez, and A. Kilgore. 2022. Using GEDI tree-height data to understand the large-scale dynamics of tropical mountains mediated by landsliding. Symposium From traits to ecosystems: Remote sensing of tropical forest structure and function under environmental change”, Association for Tropical Biology Annual Meeting, Cartagena, Colombia.
- Restrepo, C.** 2022. Integrando Sostenibilidad, Resiliencia y Paisajes en el Estudio de Servicios Ambientales. Sustainability Course, Universidad del Valle, Cali, Colombia.
- Restrepo, C.** 2022. Linking ecosystem and geomorphic processes to understand the large-scale dynamics of tropical mountains mediated by landsliding. Department of Biology Seminar Series, University of Puerto Rico at Río Piedras, San Juan, Puerto Rico.
- Restrepo, C.** 2022. Equidad de Genero en Carreras de Ciencia, Tecnología, Ingeniería y Medicina. Quien Gana? Que Ganamos? Tercer Simposio del Poder de las Mujeres en la Ciencia, San Juan, Puerto Rico.
- Restrepo, C.** 2022. Linking ecosystem and geomorphic processes to understand the large-scale dynamics of tropical mountains mediated by landsliding. Winter 2022 SEAS Ecosystem Science and Management Seminar Series, University of Michigan, Ann Arbor, Michigan.
- Restrepo, C.** 2021. Large-scale Ecology – Challenges and Opportunities. Tribeta Student Association, University of Puerto Rico at Río Piedras, San Juan.
- Restrepo, C.** 2020. From sandpiles to real mountains- Complex dynamics of tropical mountainscapes mediated by landslides. Universidad Militar Nueva Granada, Bogotá, Colombia.
- Restrepo, C.** 2020. Sostenibilidad, Objetivos de Desarrollo Sostenible, y Resiliencia: Trayectorias alternas en tiempos de COVID-19. CRiiAS, San Juan, PR.
- Restrepo, C.** 2018. Consumption of ecosystem services drive major transitions in tropical mountainscapes - Learning from the past to build sustainable futures. Fields Workshop on Human Environment Systems, University of Toronto, Toronto, Canada (<http://www.fields.utoronto.ca/video-archive/2018/03/2365-18247>)
- Restrepo, C.** 2018. From sand piles to real mountains - Complex dynamics of tropical mountainscapes mediated by landslides. Waterloo Institute for Complexity and Innovation (WICI), University of Waterloo, Waterloo, Canada. (<https://uwaterloo.ca/complexity-innovation/events/wici-talk-dr-carla-restrepo-sandpiles-real-mountains-complex>)
- Restrepo, C.** 2017. Landslides and carbon cycling in the Sierra de Las Minas of Guatemala – A story of multiple tales. Department of Geology, University of Puerto Rico at Mayaguez, Mayaguez. November 2017.
- Restrepo, C.** 2017. Dándole sentido a la Ciencia - Desarrollo de un Programa de Aprendizaje Informal de Ciencia en la Aldea de Santa Rosalia, Guatemala para entender la relación entre fertilidad del suelo, raíces y deslaves. Department of Biology Seminar Series, University of Puerto Rico-Río Piedras, San Juan, PR, November 2017.
- Restrepo, C.** 2016. Deslizamientos de tierra y ciclaje de carbon en la Sierra de Las Minas de Guatemala – Una historia con múltiples cuentos. Seminario Instituto Privado de Cambio Climático, Guatemala.
- Restrepo, C.** 2015. Landslides and carbon cycling in the Sierra de Las Minas - A story of multiple tales. Department of Environmental Sciences Seminar Series, University of Puerto Rico-Río Piedras, San Juan, PR, November 2015.
- Restrepo, C.** 2014. Large-scale dynamics of Carbon mediated by landscape activity in a Central American mountainscape. Department of Biology Seminar Series, University of Puerto Rico-Río Piedras, San Juan, PR, October 2014.
- Restrepo, C.** 2013. Sustainability - A crossroad between research, education, and action. Symposium - The UPI: In Search of Sustainability - La UIPI: En Busqueda de la Sustentabilidad. University of Puerto Rico-Río Piedras, San Juan, PR, September 2013.

- Restrepo, C.** 2013. Deslizamientos de tierra y presupuestos de carbon en montañas tropicales: Implicaciones para la provision de servicios ambientales. Universidad San Carlos de Guatemala, Ciudad de Guatemala, Guatemala, August 2013.
- Restrepo, C.** 2013. Mountains, natural hazards, and livelihoods - The story of Santa Rosalia in the Sierra de Las Minas of Guatemala in three acts. Department of Environmental Sciences Seminar Series, University of Puerto Rico-Rio Piedras, San Juan, PR, March 2013.
- Restrepo, C.** and M. G. Dominguez. 2012. Women gone wild: jungle fieldtrip experiences in Guatemala and Amazonia. Department of Biology Seminar Series, University of Puerto Rico-Rio Piedras, San Juan, PR, December 2012.
- Restrepo, C.** 2012. Landslides and carbon budgets in tropical mountains: Implications for the provision of ecosystem services. School of Earth Sciences, Ohio State University, Columbus, OH, October 2012.
- Restrepo, C.** 2012. Legacies of Socio-economic Transitions on the Structure and Function of a Tropical Drainage Basin: Resilience and Sustainability Implications. Quantifying sustainability in Puerto Rico - A scientific discussion. EPA-Research Branch, San Juan Puerto Rico, June 2012
- Restrepo, C.** 2011. Legacies of Socio-economic transitions on the structure and function of a tropical drainage basin: Resilience and sustainability implications. Seminar Program Environmental Sciences, University of Puerto Rico-Rio Piedras. October 2011.
- Restrepo, C.** 2011. Ensambles de enredaderas en paisajes post-agrícolas tropicales. Departamento de Biología, Universidad de Antioquia, Medellín, Colombia, September 2011.
- Restrepo, C.** 2011. Deslizamientos de tierra y presupuestos de carbono en montañas tropicales: Implicaciones para la provisión de servicios ambientales bajo escenarios de cambio climático. Asociación Colombiana de Ciencias Biologicas, Medellín, Colombia, September 2011.
- Restrepo, C.** 2010. Landslides and carbon budgets in the Sierra de Las Minas of Guatemala: Implications for the provision of environmental services in tropical montane ecosystems. Simposio de Biodiversidad y Servicios Ambientales. Guatemala, Guatemala, November, 2010.
- Restrepo, C.** 2010. Landslides and their role in the carbon cycle: The Sierra de Las Minas of Guatemala as a model system. Simposio Internacional – Ecosistemas y Cambio Climático en el Contexto del Cambio Global en el Neotrópico. Medellín, Colombia, May 19-20, 2010
- Restrepo, C.** and D. Delgado. 2009. Large-scale patterns of diversity and productivity in the island of Puerto Rico: Integration of large databases with spatially explicit information. XXVIII-Simposio Flora Fauna del Caribe, Universidad de Puerto Rico-Humacao. April 14, 2009.
- Restrepo, C.** 2009. Skeletal abnormalities in two Eleutherodactylus species: A hidden effect of land-cover change on species diversity. International Institute of Tropical Forestry Seminar Series, San Juan, Puerto Rico.
- Restrepo, C.** [speaker], J. Gonzalez García, J. C. Castro Hernancez, and Saul Hernandez Bezares. 2008. Landslides, natural protected areas and the long-term management of mountainscapes: emerging challenges from the study of the El Triunfo Biosphere Reserve, Chiapas, Mexico. The First World Landslide Forum, Kyoto, Japan.
- Restrepo, C.** 2007. Body size patterns serve to fingerprint changes in bird communities in fragmented habitats. Department of Biology Seminar Series, University of Puerto Rico-Rio Piedras, San Juan, Puerto Rico.
- Restrepo, C.** [speaker], H. Perotto-Baldiviezo, M. Joseph-Haynes, M. Miller, and E. Castellanos. 2007. Landslides, land-cover change, and carbon dynamics in the Sierra de Las Minas, Guatemala. Symposium Mountain Landscapes - International Association of Landscape Ecology, Wageningen, The Netherlands.
- Restrepo, C.** 2006. Fragmentación de hábitat y multimodalidad en el tamaño corporal de ensambles de aves: un rompecabezas ecológico y un reto estadístico. Departamento de Biología, Universidad de Puerto Rico-Mayaguez, Mayaguez, Puerto Rico.
- Perotto-Baldiviezo [speaker], M. Joseph-Haynes, and **C. Restrepo.** 2006. Landslides and the large-scale structure of tropical mountainscapes: Interactions with river networks and land-cover change in eastern Guatemala. First Symposium on Landslide Ecology, Association for Tropical Biology and Conservation, Kunming, China.
- Restrepo, C.** [speaker], H. Perotto-Baldiviezo, M. Miller, M. Joseph-Haynes, and E. Castellanos. 2006. Large-scale dynamics of carbon mediated by landsliding in Sierra de Las Minas, Guatemala. First Symposium on Landslide Ecology, Association for Tropical Biology and Conservation, Kunming, China.
- Restrepo, C.** 2005. Ensambles de aves en hábitats fragmentados tropicales: Alometría, asimetría fluctuante y multimodalidad en tamaño corporal. Asociación Colombiana de Ciencias Biológicas, Cali, Colombia.
- Restrepo, C.** [speaker], M. Acevedo, and X. Sanchez. 2005. Large-scale Patterns of Species Diversity in the Island of Puerto Rico: The Integration of Large Databases with Explicit Spatial Information. Primer Simposio de Sistemas de Informacion Geografica en Ecologia Aplicada y Conservacion. Universidad de Puerto Rico-RP, San Juan, Puerto Rico.

- Restrepo, C.** [speaker], A. Cuervo, and M. Anciaes. 2004. Bird assemblages in neotropical fragmented habitats: Multimodality in body size and complex allometries. Symposium Multimodality in Ecological Data: A Theoretical Puzzle and a Statistical Challenge. UPR-RP, San Juan, PR.
- Cuervo, A. [speaker] and **C. Restrepo.** 2004. Habitat fragmentation and fluctuating asymmetry in Andean birds. Symposium Multimodality in Ecological Data: A Theoretical Puzzle and a Statistical Challenge. UPR-RP. San Juan, PR.
- Delgado, J. [speaker] and **C. Restrepo.** 2004. Island size, species richness, and the distribution of body size in Caribbean Frogs. Symposium Multimodality in Ecological Data: A Theoretical Puzzle and a Statistical Challenge. UPR-RP, San Juan, PR.
- Restrepo, C.** [speaker], A. Cuervo, and M. Anciaes. 2004. Bird assemblages in neotropical fragmented habitats: Multimodality in body size and complex allometries. International Institute of Tropical Forestry, San Juan, Puerto Rico.
- Heredia, S. [speaker], E. Bruna, and **C. Restrepo.** 2003. Forest fragmentation and the spatial distribution of an ant-plant mutualism in Central Amazonia, Association for Tropical Biology annual meeting, Edinburgh, UK.
- Restrepo, C.** [speaker]. 2002. Landslides and land-cover change: Regional and global implications on the carbon cycle. Association for Tropical Biology. Panama City, Panama.
- Restrepo, C.** 2001. Landslides in tropical environments. USGS-Caribbean Program, Bayamón, Puerto Rico.
- Restrepo, C.**, B. T. Milne [speaker], D. Bader, W. Pockman, A. Allen, and A. J. Kerkhoff. 2001. Variation in vegetation growth rates: Implications for the evolution of semi-arid landscapes. International Association for Landscape Ecology-US, Tempe, AZ.
- Restrepo, C.** 2001. Forest edges and regeneration processes: Beyond edge effects. Association for Tropical Biology, Bangalore, India.
- Restrepo, C.** 2001. North American birds and butterflies: Evidence for multimodality in the distribution of geographical ranges. Workshop on Hierarchies and Scaling, San Fe Institute, NM.
- Restrepo, C.**, B. T. Milne [speaker], D. Bader, W. Pockman, A. P. Allen and A. J. Kerkhoff. 2001. Variation in Vegetation Growth Rates: Implications for the Evolution of Semi-arid Landscapes. International Association for Landscape Ecology-US, Tempe, AZ.
- Restrepo, C.** [speaker], M. Anand, A. Kerkhoff, B. T. Milne, A. Hurlebert, E. White, and P. Keil. 2000. Ecological Boundaries as Roughening Interfaces. Workshop on the Structure and Function of Boundaries, Institute of Ecosystem Studies, Millbrook, NY [poster].
- Restrepo, C.** [speaker], S. Sargent, D. Levey, and D. Watson. 2000. Vertebrates and the diversification of New World mistletoes. III International Symposium-workshop on Frugivores and Seed Dispersal: Biodiversity and Conservation Perspectives. Sao Pedro, Brazil.
- Milne, B. [speaker], **C. Restrepo**, and D. Kerkhoff. 1999. Multiscale assessment of structure and noise in species range maps. Ecological Society of America, Spokane, WA.
- Restrepo, C.** [speaker] and D. Kerkhoff. 1999. Bird-mediated seed dispersal and the organization of forest edges. Neotropical Ornithological Congress, New Perspectives in Plant-Animal Interactions, Monterrey, Mexico.
- Restrepo, C.** [speaker], L. M. Renjifo, and P. Marples. 1995. Lump structure of body mass in frugivorous birds in tropical fragmented ecosystems. Symposium Tropical Forest Remnants: Management and Conservation, Ecological Society of America Annual Meeting, Salt Lake City, UT.
- Levey, D. [speaker], **C. Restrepo** and C. Martínez del Río. 1993. The chemical ecology of fruit-frugivore interactions. Society for Chemical Ecology, Tampa, FL.
- Martínez del Río, C. [speaker] and **C. Restrepo.** 1991. Ecological and behavioral consequences of digestion in frugivorous animals. Second Symposium on Frugivory and Seed Dispersal, Los Tuxtlas, Mexico.

OTHER INVITED TALKS

- 2007 - Universidad del Valle, Ciudad de Guatemala
- 2006 - Colegio Frontera Sur - Chiapas, Chiapas, México. Universidad del Valle, Ciudad de Guatemala
- 2005 - Universidad del Valle, Ciudad de Guatemala, Guatemala; Fundación Ecoandina, Cali, Colombia.
- 2001 - University of California-Riverside, Department of Botany and Plant Sciences.
- 2001 - University of Kansas, Department of EEB.
- 2001 - University of Puerto Rico, Department of Biology.
- 2001 - University of Washington, Department of Zoology.
- 2000 - University of Puerto Rico, Department of Biology.
- 2000 - University of Mississippi, Department of Biology.

2000 - SUNY at Stony Brook, Department of Ecology and Evolution.
 1999 - Universidad de Antioquia, Medellín, Colombia.
 1999 - Tulane University, Department of Biology.
 1999 - University of Illinois, School of Integrative Biology.
 1999 - University of Cincinnati, Department of Biology.
 1999 - Texas A & M, Department of Wildlife.
 1999 - Boston University, Department of Biology.
 1999 - Florida Atlantic University, Department of Biology.
 1996 - Universidad del Valle, Cali, Colombia.

CONTRIBUTED PAPERS (students and postdocs underlined)

Kilgore, A. and **C. Restrepo**. 2024. Landslide history shapes landscape diversity: Applying hyperspectral data for functional diversity monitoring of tropical mountainous ecosystems. European Geophysical Union Annual Meeting, Vienna, Austria.

Restrepo, C. and Y. Ortiz. 2024. Plant-mycorrhizal associations vary with climate and soil in tropical mountainscapes influenced by landslides: Implications for ecosystem development and soil formation. European Geophysical Union Annual Meeting, Vienna, Austria. (poster)

Diaz, E. [speaker] and **C. Restrepo**. 2022. Tree rings in *Pinus* spp. may shed light into intra-annual variation of climatic conditions in the Sierra de Las Minas of eastern Guatemala. Association for Tropical Biology Annual Meeting, Cartagena, Colombia.

Kilgore, C. [speaker], L. Ospina, and **C. Restrepo**. 2022. Landscape memory is mediated by climate in tropical mountains – implications for the spatial distribution of landslides. Association for Tropical Biology Annual Meeting, Cartagena, Colombia.

Jiménez, A. [speaker], **C. Restrepo**, M. A. Avila mora, M. Catalán Amas, M. Stoffel, J. A. Ballesteros-Canóvas. 2022. Enhancing resilience of vulnerable rural communities against hydrometeorological hazards in tropical mountains: A case study from the Sierra de las Minas, Guatemala. European Geophysical Union, Vienna, Austria.

Cruz-Perez, R. [presenter] and **C. Restrepo**. 2021. Root Tensile Strength Correlates with Abiotic and Biotic Conditions: A Macroecological Approach. AGU [virtual, poster]

Kilgore, A. [speaker], L. Ospina, and **C. Restrepo**. 2021. Landscape memory is mediated by climate in tropical mountains - implications for the spatial distribution of landslides. Ecological Society of America Annual Meeting.

Álvarez-Vargas, F. [speaker], M. A. Villa, and **C. Restrepo**. 2021. Demand for ecosystem services in areas prone to landslides drive large-scale shifts in land-use in small mountainous watersheds in the tropics. Ecological Society of America Annual Meeting (virtual)

Ospina, L. [speaker], R. Bussman, P. Lozano, A. Hemp, P. R. Stevenson, **C. Restrepo**. 2021. Global patterns of plant taxonomic and functional diversity on landslides are modulated by climate. Ecological Society of America Annual Meeting (virtual)

Ostertag, R. et al. 2020. Leaf and wood decomposition across tropical lowland and montane forests: a pan-tropical study across climates. AGU Fall Meeting.

Murry, B., J. Bowden, B. Branoff, M. Garcia-Bermudez, B. A. Middleton, J. Ortiz-Zayas, **C. Restrepo**, A. Terando. 2019. Developing Flow Policies to balance the Water Needs of Humans and Wetlands Requires a Landscape Scale Approach Inclusive of Future Scenarios and Multiple Timescales. USGS SE Climate Adaptation Science Center Science Symposium.

Ortiz, Y. [speaker] and **C. Restrepo**. 2019. Landsliding and rhizobiota of tree-ferns link the short- and long-term carbon cycles through silicate rock weathering. ESA Annual Meeting.

Hulshof, C. M. [speaker], O. Ojeda Cana, A.Y. Kawahara, N. S. Cobb, J. D. Ackerman, R. A. Franqui Rivera, and **C. Restrepo**. 2018. Species and trait diversity of an insular Tropical Lepidoptera assemblage across space and time. Ecological Society of America Annual Meeting, New Orleans, August 2018.

Hulshof, C. M. [speaker], O. Ojeda Cana, A. Kawahara, N. Cobb, J. Ackerman, and **C. Restrepo**. 2018. Species and trait diversity of an insular tropical Lepidoptera assemblage across space and time. Association for Tropical Biology and Conservation, Kuching, Malaysia, July 2018.

Diaz, E. J. [presenter] and **C. Restrepo**. 2018. Variation in mycorrhizal infection across a topographic-fire matrix in a tropical mesic forest. International Mycological Congress, San Juan, Puerto Rico. July 2018. [poster]

- Ballesteros, J. [speaker], L. K. Selles, **C. Restrepo**, and M. Stoffel 2018. Using botanical evidence to reconstructing extreme flood in the Sierra de las Minas, Guatemala. European Geophysical Union 2018 General Assembly, Vienna, Austria.
- Ortiz, Y. [speaker], F. Godoy, and **C. Restrepo**. 2018. Landsliding and rhizobiota link the short- and long-term carbon cycles. European Geophysical Union 2018 General Assembly, Vienna, Austria.
- Restrepo, C.** [speaker], G. LaQuay, and D. Delgado. 2018. Variation in carbon dynamics mediated by landslide activity in a Central American mountainscape. European Geophysical Union 2018 General Assembly, Vienna, Austria.
- Murry, B. [speaker], **C. Restrepo**, B. Middleton, J. Bowden, A. Terando, and M. Garcia. 2018. Ecological Impacts of Inter-Basin Water Transfers: Implications to Environmental Flows and River Passage for Aquatic Organisms Under Future Climate Scenarios in Puerto Rico. American Fisheries Society Southern Division Annual Meeting, San Juan, Puerto Rico. March 2018.
- Murry, B. [speaker], **C. Restrepo**, S. Burgos-Caraballo, S. Torres, B. Middleton. 2017. Ecological impacts of inter-basin water transfers: implications to wetland distribution, function, and biota in tropical regions. Annual Meeting of the Society of Wetland Scientists, San Juan, Puerto Rico. June 2017.
- Colón, Z. [speaker] and **C. Restrepo**. 2017. Temperature effects on external and skeletal development of *Eleutherodactylus coqui*, a tropical direct-developing frog: Integration of mechanisms regulating the phenotype. XI Congreso Latinoamericano de Herpetología, Quito, Ecuador. Julio 2017.
- Pabón, D. [speaker], I. Hernandez, M. J. Barragan, D. Delgado, and **C. Restrepo**. 2015. Modeling the spread of an invasive vine: Consequences for carbon cycling in a post-agricultural landscape. Ecological Society of America, Baltimore, MD. August 2015.
- Delgado, D. [speaker], R. Arce, and **C. Restrepo**. 2015. Modeling the influence of biotic interactions on the spread of the invasive vine *Mikania micrantha* - A graph theory approach. Ecological Society of America, Baltimore, MD. August 2015.
- Welch, S. A., L. A. Miller, B. C. McAdams, A. M. Trierweiler, **C. Restrepo**, and A. E. Carey. 2015. Weathering of REE-bearing minerals phases in the Sierra de Las Minas: Implications for the total CA flux. GSA, Baltimore, MD, November 2015 [poster].
- Porder, S. [speaker], G. Hilley, N. Chacon, S. Goldsmith, S-J Kao, H. Lu, L. Martinelli, and **C. Restrepo**. 2014. Biogeochemical variation among tropical forests spanning the global range of denudation rates. Ecological Society of America Annual Meeting, Sacramento, CA, August 2014.
- Restrepo, C.** 2013. Variation in soil organic carbon abundance and isotopic composition mediated by landslide activity in the Sierra de Las Minas, Guatemala. American Geophysical Union Annual Meeting, San Francisco, CA, December. 2013.
- Cifuentes, C. [speaker] y **C. Restrepo**. Desarrollo de modelos alométricos para la determinación de biomasa de plantas leñosas colonizadoras en deslaves en la Sierra de las Minas, Guatemala. X Congreso Nacional Forestal de Guatemala, Noviembre 2013.
- Aponte-Collazo, L. J. [speaker], J. E. García-Arrarás, **C. Restrepo**. 2013. CYP19, Foxl2, CYP17 and Sox3 as Sex Identifier Genes in the Anurans *Eleutherodactylus coqui* and *Eleutherodactylus antillensis*. Annual Biomedical Research Conference for Minority Students, San Antonio, TX, November 2013.
- McAdams, B. C. [speaker], A. M. Portier, S. A., Welch, **C. Restrepo**, and A. E. Carey. 2013. Two sides to every range: orographic influences on chemical weathering budgets. Geological Society of America Annual Meeting, Denver, CO, November 2013.
- Colon, Z. [presenter], J. Delgado-Acevedo, and **C. Restrepo**. 2013. Subtle skeletal abnormalities in two Puerto Rican *Eleutherodactylus* species increase with forest fragmentation. Joint Meeting Ichthyologists and Herpetologists, Albuquerque, NM, July 2010. [poster]
- Restrepo, C.** [speaker], E. Castellanos, G. Alfaro, C. Cifuentes, and G. LaQuay. 2013. Variation in soil organic carbon abundance and isotopic composition mediated by landslide activity in the Sierra de Las Minas, Guatemala. Association for Tropical Biology and Conservation, San José, Costa Rica, June 2013.
- Cifuentes, C. [presenter], D. E. Mendieta, J. Vargas, C. García, and **C. Restrepo**. 2013. Development of biomass equations for small woody plants colonizing landslides in the Sierra de Las Minas of Guatemala. Association for Tropical Biology and Conservation, San José, Costa Rica, June 2013. [poster]
- Delgado, D. [speaker] and **C. Restrepo**. 2012. Vine assemblages in tropical post-agricultural landscapes vary along complex environmental gradients. Association for Tropical Biology and Conservation, San José, Costa Rica, June 2013.

- McAdams, B. [speaker], A. Portier, S. Welch, **C. Restrepo**, and A. Carey. 2012. The origin of streambed sediments in al landslide dominated mountain range: Sierra de Las Minas, Guatemala. Geological Society of America Annual Meeting, Charlotte, NC, November 2012.
- La Quay, G. [presenter] and **C. Restrepo**. 2012. Landscape-level regeneration of landslides in the Sierra de Las Minas of Guatemala. Annual Meeting of the Association for Tropical Biology and Conservation, Bonito, Brazil, June 2012. [poster]
- Ramos-Scharron, C. [speaker] and **C. Restrepo**. 2012. The transfer of modern organic C by landslide activity in tropical montane ecosystems. European Geophysical Union General Assembly, Vienna, Austria, April 2012.
- McAdams, B. [speaker], S. A. Welch, **C. Restrepo**, A. Grottoli, Y. Matsui, and C. Carey. 2011. Dry season fluvial carbon dynamics related to landslides in the Sierra de Las Minas, Guatemala. Geological Society of America Annual Meeting, Minneapolis, MN, October 2011.
- LaQuay, G. [presenter] and **C. Restrepo**. 2011. Variation in forest and landslide carbon pools along complex environmental gradients in the Sierra de Las Minas of eastern Guatemala. Annual Meeting of the Ecological Society of America, Austin, Texas, August 2011. [poster]
- Delgado, D. [speaker], R. Arce-Nazario, and **C. Restrepo**. 2011. Understanding the large-scale pattern of exotic vine spread: Do power and telephone networks function as corridors aiding exotic vine invasion? Annual Meeting of the Ecological Society of America, Austin, Texas, August 2011.
- Delgado, D. [speaker] and **C. Restrepo**. 2011. Understanding the success of invasive vines: land use and its influence on the distribution of vine patches in a tropical landscapes Association for Tropical Biology and Conservation Annual Meeting, Tanzania, June 2011.
- Ramos-Scharron [presenter] and **C. Restrepo**. 2010. The transfer of modern organic carbon by shallow landslide activity in a tropical montane ecosystem in Central America. Pan-American Advanced Studies Institute (PASI): Interdisciplinary Studies on Global Climate Change and the Ecology and Management of Tropical Montane Cloud Forests, Dominican Republic. [poster]
- Trierweiler, A. M., C. Mondro, **C. Restrepo**, and A. Carey [speaker]. 2010. Landslide disturbance and scale in watershed studies of fluvial carbon and nutrient yields. Geological Society of America Annual Meeting, November, 2010
- Trierweiler, A. M.[speaker], C. A. Mondro, S. A. Welch, **C. Restrepo**, and A. E. Carey. 2010. Carbon and nutrient export dynamics in small mountainous watersheds prone to landsliding. Goldschmidt Conference – Earth, Energy, and the Environment, Knoxville, Tennessee, June 2010.
- Restrepo, C.** [speaker], M. J. Gonzalez, and J. C. Castro. 2009. Landslides, natural protected areas, and the long-term management of mountainscapes: Emerging challenges from the study of the El Triunfo Biosphere Reserve, Chiapas, Mexico. Ecological Society of America Annual Meeting-OOS: Global Ecology in the 21st Century: Sustaining an Anthropogenic Biosphere, August, 2009.
- Restrepo, C.** [presenter], R. Arce-Nazario, M. Barreto, J. Colon, D. Delgado, E. Estela, J. C. Ortega, J. Ortiz, M. E. Perez, I. Quintero, R. Ríos, L. Santiago, and G. Toranzos. 2009. Legacies of Socio-economic transitions on the structure and function of a tropical drainage basin: Resilience and Sustainability Implications. First Millenium Conference of the Ecological Society of America – Water-Ecosystem Services, Drought, and Environmental Justice. Athens, Georgia, November 2010. [poster]
- Trierweiler, A. M. [presenter], C. A. Mondro, S. A. Welch, **C. Restrepo**, and A. E. Carey. 2009. Carbon and nutrient export dynamics in small mountainous watersheds prone to landsliding. Geological Society of America Annual Meeting, Portland, OR, October 2009. [poster]
- Delgado, D. [presenter] and **C. Restrepo**. 2008. Predicting the impacts of climate change on honeybee production in Puerto Rico. XXXI Congreso Interamericano de Ingeniería Sanitaria y Ambiental, Octubre 12-15 2008, Santiago de Chile, Chile. [poster]
- Villanueva, L. [presenter], J. Delgado-Acevedo, M. I. Herrera, F. Castro, and **C. Restrepo**. 2007. Body size in neotropical amphibian communities and its role in predicting their conservation status. Association for Tropical Biology and Conservation, Morelia, Mexico. [poster]
- Delgado, D. [speaker], A. Galindo, and **C. Restrepo**. 2007. Landscape patterns of honeybee production in Puerto Rico in response to climate change. Association for Tropical Biology and Conservation, Morelia, Mexico.
- Muñoz, M. [presenter], M. Caraballo, and **C. Restrepo**. 2007. Land-cover change and patterns of tree infection by the mistletoe *Dendropemon caribaeus* (Loranthaceae) in northern Puerto Rico. Association of Tropical Biology and Conservation, Morelia, Mexico. [poster]
- Ramos-Scharron [presenter], C., M. Miller, M. Joseph, and **C. Restrepo**. 2006. The role of shallow landslides in the downslope transfer of organic matter and its implications on the residence time of carbon in a tropical mountain system. American Geophysical Union, San Francisco, CA. [poster]

- Rodriguez, R. [speaker] and **C. Restrepo**. 2006. Land-use change and its impact on the butterflies of the "La Tula" watershed, Puerto Rico. Society for Conservation Biology Annual Meeting, San Jose, CA.
- Delgado-Acevedo, J. [presenter] and **C. Restrepo**. 2006. Morphological variation in two *Eleutherodactylus* frogs in response to land-cover and land-use change in the northern karst region of Puerto Rico. Ecological Society of America, Knoxville, TN. [poster]
- Monmnay, C. [presenter] and **C. Restrepo**. 2006. Effect of habitat fragmentation on herbivore-parasitoid interactions: the role of body size. Gordon Research Conference-Metabolic Basis of Ecology, Maine. [poster]
- Restrepo, C.** [speaker], A. Cuervo, and M. Anciaes. 2004. Bird assemblages in neotropical fragmented habitats: Multimodality in body size and complex allometries. IALE-US, Las Vegas, Nevada, US.
- Alvarez, N. [speaker] and **C. Restrepo** 2004. Landslides and their impact on landcover change in the mountains of Central America: Consequences for local and regional carbon budgets. IALE-US, Las Vegas, Nevada, US.
- Cuervo, A. [speaker] and **C. Restrepo**. 2003. Responses of Andean birds to fragmentation: Fluctuating asymmetry as an indicator of stress. VII Congreso Ornitología Neotropical, Chile.
- Cuervo, A. [speaker] and **C. Restrepo**. 2003. Habitat fragmentation, fluctuating asymmetry, and neotropical montane birds. Conservation Biology, Duluth, MN.
- Restrepo, C.** [speaker], W. Pockman, B. T. Milne, A. Tyler, and A. Allen. 2002. Growth of two semi-arid plant species: The role of precipitation and potential evapotranspiration. Ecological Society of America, Tucson, AZ.
- Stark, C. [speaker], N. Driscoll, J. Weissel, **C. Restrepo**, and N. Hovius. 2000. The role of biomass-wasting in the Carbon cycle. Goldschmidt Conference, Oxford, UK, September 2000.
- Stark, C. [presenter], **C. Restrepo**, N. Hovius, J. Weissel, and N. Driscoll. 1999. The pivotal role of landsliding in montane forest ecosystems and its quantitative significance in regional and global carbon cycles. American Geophysical Union, San Francisco, CA. [poster]
- Restrepo, C.** [speaker], D. Kerkhoff, and B. Milne. 1999. Landslides and the large-scale organization of tropical montane ecosystems. Fifth World Congress, International Association for Landscape Ecology. Snowmass Village, CO, 29 July – 3 August 1999
- Restrepo, C.** [speaker] and A. Vargas. 1998. The influence of treefall gaps and anthropogenic edges on seed germination and seedling growth of two Neotropical shrubs. Association for Tropical Biology, Baltimore, MD.
- Restrepo, C.** [speaker] and P. Vitousek. 1998. Changes in species composition and above- and below-ground biomass in Hawaiian landslides. Ecological Society of America, Baltimore, MD.
- Restrepo, C.** [speaker]. 1997. Edge effects on fruit-frugivore interactions in a Neotropical montane forest. Ecological Society of America, Albuquerque, NM.
- Gómez, N. [speaker] and **C. Restrepo**. 1995. *Structure and seasonal fluctuations of the understory bird community of a cloud forest in SW Colombia*. Congreso de Ornitología Neotropical, Asunción, Paraguay.
- Restrepo, C.** [speaker] and N. Gómez. 1993. Edge effects on the understory bird assemblage of a tropical cloud forest. Association for Tropical Biology, San Juan, Puerto Rico.
- Restrepo, C.** [speaker], M. Mondragón, and W. Beltrán. 1990. Cooperative breeding in Toucan barbets (*Semnornis ramphastinus*), a Neotropical Frugivorous Bird. American Ornithologists' Union, Los Angeles, California.
- Restrepo, C.** [presenter] and M. Mondragón. 1987. *Natural history of Semnornis ramphastinus, preliminary results*. Congreso de Ornitología Neotropical, Cali, Colombia. [poster]
- Restrepo, C.** and L. G. Naranjo [speaker]. 1987. *Changes in the distribution of aquatic ecosystems and birds in the Valle del Cauca, Colombia, between 1950-1980*. Congreso de Ornitología Neotropical, Cali, Colombia.
- Restrepo, C.** 1987. *Seed dispersal of mistletoes by birds*. Congreso Latinoamericano de Botánica, Medellín, Colombia.

CONTRIBUTED PAPERS - Puerto Rico (students underlined; mostly by undergraduate students;)

- Rohrbaugh, N. and **C. Restrepo**. 2024. Variation in soil metabolic profiles in forest and landslide habitats in tropical regions: Implications for rock weathering. Interdisciplinary Scientific Meeting, Universidad de Puerto Rico recinto Aguadilla, Puerto Rico
- Restrepo, C.**, N. Cardona Alemán, Camila Cuevas Burgos, Patricia Birchenough, and Diana Delgado 2024. Understanding the spread of invasive vines in Puerto Rico requires multiple approaches and involves numerous stakeholders. Primer Simposio de Ecología y Ciencias Ambientales de Puerto Rico - Universidad Ana G. Mendez (Cupey), San Juan, Puerto Rico
- Rohrbaugh, N. and **C. Restrepo**. 2023. Variation in soil metabolic profiles in forest and landslide habitats in tropical regions: Implications for rock weathering. First Meeting Local Chapter of SACNAS (poster)

- Rosa, A., L. Ospina, and C. Restrepo. 2023. Ecological mechanisms driving community assembly during landslide succession – a meta-analysis approach. Interdisciplinary Scientific Meeting, Universidad de Puerto Rico recinto Bayamon, Puerto Rico
- Díaz-Collado, F., P. Szejner, C. Cifuentes, and C. Restrepo. 2023. Tree rings in *Pinus* spp. shed light into intra- and inter-annual variation of climatic conditions in the dry Motagua basin of eastern Guatemala. Puerto Rico Interdisciplinary Scientific Meeting, Universidad de Puerto Rico recinto Bayamon, Puerto Rico
- Cardona-Alemán, N., C. Cuevas Burgos, P. Birchenough Prieto, D. Delgado, and C. Restrepo. 2023. Spatial and temporal variation of invasive vines in north central Puerto Rico. Puerto Rico Interdisciplinary Scientific Meeting, Universidad de Puerto Rico recinto Bayamon, Puerto Rico
- Kilgore, A., L. Ospina, and C. Restrepo. 2022. Landscape memory is mediated by climate in tropical mountains - implications from post-landslide recovery. Forward Meeting PRSTT, San Juan, Puerto Rico (poster)
- Ortiz, Y., F. Godoy, and C. Restrepo. 2022. Understanding macro processes from a micro scale: Rhizobiota links landsliding and the carbon cycles through rock weathering. Forward Meetings PRSTT, San Juan, Puerto Rico (poster)
- Díaz, F. and C. Restrepo 2022. Tree rings in *Pinus* spp. may shed light into intra-annual variation of climatic conditions in the Sierra de Las Minas of eastern Guatemala. Simposio Investigación Subgraduada Criias, Universidad de Puerto Rico Rio Piedras.
- Rosa, A., L. Ospina, and C. Restrepo. 2022. Ecological mechanisms driving community assembly during landslide succession – a meta-analysis approach. Puerto Rico Interdisciplinary Scientific Meeting, Universidad de Puerto Rico recinto Humacao, Puerto Rico.
- Díaz, F. and C. Restrepo 2022. Tree rings in *Pinus* spp. may shed light into intra-annual variation of climatic conditions in the Sierra de Las Minas of eastern Guatemala. Puerto Rico Interdisciplinary Scientific Meeting, Universidad de Puerto Rico recinto Humacao, Puerto Rico.
- Rosa, A., L. Ospina, and C. Restrepo. 2021. Patterns of functional diversity during succession in tropical landslides. Puerto Rico Interdisciplinary Scientific Meeting, Universidad del Turabo, Puerto Rico.
- Norat Pérez, A., C. E. Cifuentes Bonilla, F. J. Díaz Collado, and C. Restrepo. 2021. Variation in tree-ring growth in *Pinus* sp. and *Cupressus lusitanica* along a short elevation gradient in the Sierra de Las Minas, Guatemala. Puerto Rico Interdisciplinary Scientific Meeting, Universidad del Turabo, Puerto Rico
- Díaz, F., C. Cifuentes, A. Norat Perez, and C. Restrepo. 2021. Tree rings in *Pinus* spp. May Shed Light into Intra- and Inter-annual Variation of Climatic Conditions in the Sierra de Las Minas of Eastern Guatemala. Puerto Rico Interdisciplinary Scientific Meeting, Universidad del Turabo, Puerto Rico.
- Cruz-Perez, R. and C. Restrepo. 2021. Plant life form and geographical distribution influences on root tensile strength: a global analysis. Puerto Rico Interdisciplinary Scientific Meeting, Universidad del Turabo, Puerto Rico.
- Caliz, R., C. Restrepo, S. Hughes. 2019. Petrographic analysis of the Chuacús Complex in the central Sierra de las Minas, Guatemala. Puerto Rico Interdisciplinary Scientific Meeting
- Padilla, J. A., R. Caliz, C. Restrepo, and S. Hughes. 2019. Whole-rock Geochemistry of the Bosque Enano Granite, Sierra de las Minas of Guatemala. Puerto Rico Interdisciplinary Scientific Meeting
- Díaz, E., A. Sacbaja, and C. Restrepo. 2018. Variation in below-ground ecosystem attributes across a topographic-fire matrix in a tropical mesic forest. Puerto Rico Interdisciplinary Scientific Meeting, Universidad del Turabo, Puerto Rico, May 2018.
- Rodriguez, P., Z. Colon- Piñeiro, and C. Restrepo. 2018. Long-bone development in the direct-developing frog *Eleutherodactylus coqui* reared under varying temperature conditions. Puerto Rico Interdisciplinary Scientific Meeting, Universidad del Turabo, Puerto Rico, May 2018.
- Torres, P. [speaker], I. Resto, Z. Colon-Piñeiro, and C. Restrepo. 2016. Temperature effects on late stage embryonic development of *Eleutherodactylus coqui*. Puerto Rico Interdisciplinary Scientific Meeting, Ponce, Puerto Rico, March 2016.
- Collazo, S. [speaker], V. Figueroa, Z. Colon-Piñeiro, C. Restrepo, and J. E. Garcia-Arraras. 2016. Amphibian sex determination - *Eleutherodactylus coqui*. Puerto Rico Interdisciplinary Scientific Meeting, Ponce, Puerto Rico, March 2016.
- Santiago, N. [speaker], D. Delgado, Y. Ortiz, and C. Restrepo. 2016. Using the leaf "ionome" to distinguish functional groups of vines in Puerto Rico. Puerto Rico Interdisciplinary Scientific Meeting, Ponce, Puerto Rico, March 2016.
- Ortiz, Y. [speaker], A. Rodriguez, C. Restrepo, T. Glavina, E. Kirton, E. Santiago, S. Tringe, and F. Godoy-Vitorino. 2015. The rhizosphere microbiome of *Tabebuia heterophylla*, a morphologically variable tropical tree native to Puerto Rico. Simposio Microbiología de Puerto Rico, Turabo

- Ortiz, Y., N. Santiago, E. Navarro, and C. Restrepo. 2016. Testing a protocol for soil elemental analysis using X-Ray Fluorescence Spectroscopy. Puerto Rico Interdisciplinary Scientific Meeting, Ponce, Puerto Rico, March 2016. [poster]
- Lopez, G., Z. Colon-Pinero and C. Restrepo. 2015. Quantifying the ossification of the skeletal system during the development of *Eleutherodactylus coqui* through image analysis. Puerto Rico Interdisciplinary Scientific Meeting, San Juan, Puerto Rico, March 2015.
- Cardona, R., P. Torres, Z. Colon-Pinero and C. Restrepo. 2015. Temperature effects on the morphology of *Eleutherodactylus coqui* during development. Puerto Rico Interdisciplinary Scientific Meeting, San Juan, Puerto Rico, March 2015
- Delgado, C. [speaker], J. Figueroa, and C. Restrepo. 2014. Predicting vine invasiveness from multiple traits in a diverse Tropical insular assemblage. Simposio Estudiantes Graduados de Biología, San Juan, PR, May 2014.
- Ortiz, Y. [speaker] and C. Restrepo. 2014. Rehydration protocol for estimating wood specific gravity from air dried tree cores. Puerto Rico Interdisciplinary Scientific Meeting, Cayey, Puerto Rico, March 2014
- Delgado, D. [speaker], J. Figuerola, and C. Restrepo. Vine attributes and invasiveness. Invasive Species Awareness Week Symposium. March 2013.
- Figueroa, J. [presenter], D. Delgado y C. Restrepo. 2012. Characteristics of vine abundance in the Island of Puerto Rico. First Symposium of Undergraduate and Graduate Research, University of Puerto Rico-Rio Piedras, San Juan, PR, April 2012. [poster]
- Lopez, F. [speaker] and C. Restrepo. 2012. The application of dendrochronological techniques in tropical tree species. Puerto Rico Interdisciplinary Scientific Meeting, Carolina, Puerto Rico, March 2012.
- Figueroa, J. [speaker], D. Delgado y C. Restrepo. 2012. Características sobre la distribución y abundancia de enredaderas en Puerto Rico. Puerto Rico Interdisciplinary Scientific Meeting, Carolina, Puerto Rico, March 2012.
- La Quay, G. and C. Restrepo. 2012. Variation in forest and landslide carbon pools along complex environmental gradients in the Sierra de Las Minas of eastern Guatemala. Puerto Rico Interdisciplinary Scientific Meeting, Carolina, Puerto Rico, March 2012. [poster]
- Delgado, D. [speaker] and C. Restrepo. 2011. Role of land-use on patterns of exotic vine dispersal in a tropical watershed 10th Simposio Ambiental, Universidad de Puerto Rico- Cayey. October, 2011
- La Quay, G. [speaker] and C. Restrepo. 2011. Variation in plant composition and soil properties along complex environmental gradients in the Sierra de Las Minas, Guatemala. Puerto Rico Interdisciplinary Scientific Meeting, Bayamón, Puerto Rico, March 2011.
- Figueroa, J. [speaker], D. Delgado, and C. Restrepo. 2011. Características de éxito de introducción de enredaderas exóticas en una región tropical. Puerto Rico Interdisciplinary Scientific Meeting, Bayamón, Puerto Rico, March 2011.
- Delgado, D., R. Arce-Nazario, and C. Restrepo. 2011. Understanding exotic vine's large-scale spread through network analysis. Puerto Rico Interdisciplinary Scientific Meeting, Bayamón, Puerto Rico, March 2011. [poster]
- Wagner, K. [presenter], A. Odeh, M. Alejandro, G. Collazo, S. Ramos, A. Rivera, and C. Restrepo. 2011. Water and plastic bottles: Understanding key issues to develop sustainable initiatives in the College of Natural Sciences of UPR's Rio Piedras Campus. Puerto Rico Interdisciplinary Scientific Meeting, Bayamón, Puerto Rico, March 2011. [poster]
- Delgado, D., R. Arce-Nazario, and C. Restrepo. 2010. Understanding the spread of exotic vines in Puerto Rico through network analysis. Puerto Rico Interdisciplinary Scientific Meeting, Mayaguez, Puerto Rico, March 2010. [poster]
- Ramos, P. [speaker], J. Colon, and C. Restrepo. 2010. History of water development and human population change in the Río Grande de Arecibo Watershed. Puerto Rico Interdisciplinary Scientific Meeting, Mayaguez, Puerto Rico, March 2010.
- Colon, J. [speaker] and C. Restrepo. 2009. Socioeconomic, land-use and land-cover change as drivers of water quality regimen shifts in the Río Grande de Arecibo watershed. Puerto Rico Interdisciplinary Scientific Meeting, San Juan, Puerto Rico, March 2009.
- Delgado, D. and C. Restrepo. 2009. Fluctuating asymmetry and morphological variation in Puerto Rican populations of Papilionidae butterflies. Puerto Rico Interdisciplinary Scientific Meeting, San Juan, Puerto Rico, March 2009. [poster]
- Fuentes, J. [speaker] and C. Restrepo. 2009. Host preferences by two species of Puerto Rican mistletoes. Puerto Rico Interdisciplinary Scientific Meeting, San Juan, Puerto Rico, March 2009.
- Melendez, G. and C. Restrepo. 2009. Analysis of precipitation time-series for the Río Grande de Arecibo watershed: Implications for watershed management. Puerto Rico Interdisciplinary Scientific Meeting, San Juan, Puerto Rico, March 2009.

- Delgado, D., A. Galindo, and C. Restrepo. 2007. Predicting the impact of climate change on honeybee production in Puerto Rico. Simposio Departamento de Recursos Naturales, San Juan, Puerto Rico. [poster]
- Delgado, D., A. Galindo, and C. Restrepo. 2007. Prediciendo los impactos de cambio de clima sobre la producción de miel en Puerto Rico. Primer Congreso Antillano de Apicultura, Guayanilla, Puerto Rico. [poster]
- Monmany, C. and C. Restrepo. 2007. Herbivore-parasitoid body sizes in the landscape Puerto Rico Interdisciplinary Scientific Meeting, Universidad Interamericana, Bayamon, Puerto Rico. [poster]
- Miller-Burgos, M. [speaker] and C. Restrepo. 2007. Causes of land-use change in the Sierra de Las Minas, Guatemala. Junior Technical Meeting, Universidad Interamericana, Bayaman, Puerto Rico.
- Delgado, D. [speaker], A. Galindo, and C. Restrepo. 2007. GIS as a tool for monitoring bee colonies and honeybee production in Puerto Rico. Puerto Rico Interdisciplinary Scientific Meeting. Universidad Interamericana, Bayamon, Puerto Rico.
- Orozco-Lopez, S. M. [presenter], J. D. Daza, J. Delgado-Acevedo, E. Rosa-Molinar, and C. Restrepo. 2006. Land-use change, skeletal development, and abnormalities in two *Eleutherodactylus* frogs. Association for the Advancement of Science-Caribbean Chapter, Universidad Interamericana, Bayamon, Puerto Rico. [poster]
- Monmany, C. and C. Restrepo. 2006. Herbivore-parasitoid body sizes in the landscape. American Association for the Advancement of Science-Caribbean Chapter, Universidad Interamericana, Bayamon, Puerto Rico. [poster]
- Monmany, C. [speaker] and C. Restrepo. 2005. Lepidoptera body size as a determinant of parasitism patterns in the landscape. Segundo Simposio de Estudiantes Graduados de Biología, Universidad de Puerto Rico-RP, San Juan, Puerto Rico.
- Acevedo, M. [speaker] and C. Restrepo. 2005. Avian species distribution along a land-use mosaic: Puerto Rico as a case study. Simposio de la Flora y Fauna del Caribe, Universidad de Puerto Rico-Humacao, Humacao, Puerto Rico.
- Cuervo, A. [speaker] and C. Restrepo. 2003. La fragmentación de hábitat incrementa los niveles de asimetría fluctuante en aves tropicales de montaña. 1r Simposio de Estudiantes Graduados de Biología, San Juan, Puerto Rico. [poster]
- Delgado-Acevedo, J., N. Alvarez and C. Restrepo. 2003. Museum collections as useful resource for assessing patterns of diversity: Amphibians and the threatened karstic region of Puerto Rico. 1r Simposio de Estudiantes Graduados de Biología, San Juan, Puerto Rico. [poster]
- Heredia, S., E. Bruna and C. Restrepo. 2003. Fragmentation effects on the spatial distribution of the *Hirtella-Allomerus* mutualistic system in Central Amazonia. 1r Simposio de Estudiantes Graduados de Biología, San Juan, Puerto Rico. [poster]
- Rodríguez, R. and C. Restrepo. 2003. Diversidad de mariposas en la cuenca de la quebrada La Tula, Puerto Rico: Diversidad morfológica y heterogeneidad espacial. 1r Simposio de Estudiantes Graduados de Biología, San Juan, Puerto Rico. [poster]
- Delgado, J., N. Alvarez, and C. Restrepo. 2003. Museum collections as a useful conservation resource: Amphibian distribution patterns in the threatened karstic region of Puerto Rico, II Simposio de Investigación de la Zona Kárstica de Puerto Rico, Universidad Interamericana de Puerto Rico-Bayamón. [poster]

RESEARCH EXPERIENCE

- Coordinator of activities for the proposal “Scaling and Biodiversity: Physical and Biological Foundations of Ecological Principles” (J. Brown, PI) funded through NSF’s-Biocomplexity competition. 2000.
- Postdoctoral Research Fellow, LTREB: Portal (J. Brown, PI), The University of New Mexico, Albuquerque, NM 1999.
- Postdoctoral Research Fellow, Scale-dependent instabilities in the biophysical controls of landscape structure (B. Milne, PI), The University of New Mexico, Albuquerque, NM. 1999.
- Graduate Research Assistant, Mechanisms, processes, and patterns in species interactions: An experimental approach with tropical hummingbird-pollinated plants (P. Feinsinger, PI), University of Florida, Gainesville, FL., 1998
- Field Assistant, *Inventory of critical areas for conservation in Colombia* (J. E. Orejuela, PI), WWF-USA and Fundación para la Educación Superior-FES, Colombia. 1982.
- Field Assistant, *Forest structure and composition of Ciudad Perdida, a prehispanic settlement in the Santa Marta mountains, Colombia*, Fundación Tayrona, Colombia. 1982.

TEACHING EXPERIENCE

- Instructor, Department of Biology, University of Puerto Rico-RP.

Core Undergraduate Courses: Introductory Ecology (BIOL 3111), Introductory Ecology Lab (BIOL 3112).

Advanced Undergraduate Courses: Evolutionary Medicine: Application of Evolutionary, Ecological, and Behavioral Concepts to the Study of Disease (BIOL 4806) and Advanced Ecology: Basic Principles in Landscape Ecology (BIOL 4999-163).

Core Graduate Courses: Advanced Ecology (BIOL 6190; coordinator and lecturer), Conservation Biology (BIOL 6145; lecturer), Evolution (BIOL 6802; lecturer), Doctoral Seminar - Scientific Writing (BIOL 8995), Advanced Topics in Biology – This required graduate course is based on ~ 8-10 invited faculty that visit Puerto Rico for a week to lecture, give a seminar, and teach a lab. As coordinator or co-coordinator of the course I define the topic, and identify, contact, and invite faculty. As coordinator and co-coordinator of the course I also give a lecture/seminar/lab. The course also calls for the development of multiple venues for socializing. To extend the impact of this course, I have used an umbrella undergraduate course to bring in undergraduate students who take the lectures but not the labs. Topics covered include “Landscapes, Sustainability, and Resilience: Conceptual Basis, Methods, and Practice” (BIOL 6999; 2010), “Big Data in Biology: From Cells to the Biosphere” (BIOL 6999, BIOL 4999), “Multidisciplinary Approaches to Conservation Biology” (BIOL 6999, BIOL 4999), “Integration of omics and imaging to understand ecosystem function: From cells to Earth biomes (BIOL 6999, BIOL 4999).

Advanced Graduate Courses: Large-Scale Ecology: Landscapes, Processes, and Diversity (BIOL 6127). Sustainability, Resilience, and Landscapes: Concepts, Methods, and Practice (BIOL 4101 and BIOL 6101 – formerly taught under BIOL 4999 and BIOL 6996). Graduate Seminars: Allometry, and Fluctuating Asymmetry (BIOL 6990) and Complex Systems (BIOL 6996).

Participating Faculty in Training Grants, including NSF RaMP (2023; PI J. E. García Arrarás); IQ-Bio REU (2020 and 2022; PI J. S. Ramirez) and- IDGene (2022; PI J. E. García), University of Puerto Rico at Rio Piedras.

Instructor, Puerto Rican Winter Institute, Harvard University, Winter 2007.

Instructor, GIS-Applications to Conservation. One day course Asociación Colombiana de Ciencias Biológicas, Cali, Colombia, Fall 2005.

Instructor, Seminar in Ecological Complexity. (Leading graduate seminar with J. Brown). The University of New Mexico, NM. Spring 1999 and Fall 2000.

Instructor, *Temas en Ecología*, graduate course. University of Puerto Rico, San Juan, PR. Spring 2000

Instructor, Tropical Ecology and Conservation: 96-2, Organization for Tropical Studies, Costa Rica. 1996.

Graduate Teaching Assistant – undergraduate-level courses: Introductory Biology for Majors-both labs (25 students) and discussion sections (70 students) (5 semesters), General Ecology (1 semester). University of Florida, FL. 1988-1995.

Graduate Teaching Assistant – graduate-level courses: Community Ecology (1 semester), University of Florida, FL. 1990.

Instructor, *Tropical Ecology and Conservation*, Reserva Natural La Planada-FES, Colombia. 1991 and 1992.

Instructor, *Introducción a Nuestras Aves*, Sociedad Vallecaucana de Ornitología, Colombia. 1984.

Undergraduate Teaching Assistant, Genetics (1 semester), Evolution (1 semester), Universidad del Valle, Colombia. 1980-1981.

NATIONAL AND INTERNATIONAL WORKSHOPS AND SYMPOSIA ORGANIZED

2019 Data Carpentry Workshop in R. University of Puerto Rico at Rio Piedras (co-organizer with Catherine Hulshof)

2015 ESA Organized Oral Session-Invasive vines: drivers of large-scale ecosystem shifts worldwide and consequences for restoration, Baltimore, US.

2009 Resilience and the Adaptive Management of Watersheds Workshop, University of Puerto Rico-Río Piedras, San Juan, Puerto Rico.

2006 Convening the First Symposium-Workshop on Landslide Ecology-A Perspective from Tropical Mountains, ATBC, Kunming, China.

2004 Multimodality in Ecological Data: A Theoretical Puzzle and a Statistical Challenge Symposium, University of Puerto Rico-Río Piedras, San Juan, Puerto Rico

SERVICE

University of Puerto Rico Río Piedras campus

2022 Department of Biology, Chair, Search Committee Ecology Position.

2022-present	Department of Biology, Academic Affairs Committee
2019-present	Deanship of Graduate Studies and Research, IACUC
2017-2020	Department of Biology, Personnel Committee.
2017-present	Department of Biology, Communications Committee.
2017-2018	Department of Biology, Organizer Departmental Series.
2015-2017	Department of Biology, Graduate Committee
2015-2016	Student Organization TRIBETA, Mentoring Professor, University of Puerto Rico Rio Piedras, San Juan, PR
2014-present	College of Natural Sciences, Chair, Web Page Committee.
2013	Department of Biology, Search Committee (4 positions, Ecologist, Organismal Biologist, Population Geneticist, Systematist)
2012-2014	Department of Biology, Personnel Committee.
2011	Department of Biology, Search Committee Microbiologist.
2010	Department of Biology, Search Committee Ecologist.
2010	Department of Biology, Organizer Departmental Seminar Series.
2008-2010	Department of Biology, Academic Affairs Committee.
2007	Department of Biology, Chair, Search Committee Zoologist.
2003	Department of Biology, Search Committee Molecular Systematist.
2002-present	Department of Biology, Webmaster, Department of Biology web page.
2022-2004	Department of Biology, Biology Strategic Planning Committee.
2002-2004	College of Natural Sciences, Nuevo Bachillerato Biology Committee: Math/Stat courses.
2002-2004	Department of Biology Graduate Committee, 2002-2004.
2001-2003	College of Natural Sciences, Chair Library Committee-College, 2001-2003.
2001-2002	Department of Biology Academic Affairs Committee, 2001-2002.

Academic and Professional Community at large

2022	Association for Tropical Biology and Conservation, Mentoring Cycle.
2022-2003	Association for Tropical Biology, Council Member.
2001-2017	El Hornero, Subject Editor
2015	Judge Buell and Braun Student Awards, Ecological Society of North America, Baltimore, MD
2013	Ecological Society of North America - Scaling UP - Future of Environmental Decisions Workshop - Planning Committee.
2000	University of New Mexico, Search Committee Lecturer Human Anatomy and Physiology.
1999	Moderator, contributed paper session: Cultural Perceptions and Perspectives of Landscapes, International Landscape Ecology Meeting.
1999	Judge, Student Research Day, Department of Biology, The University of New Mexico
1998	Chair, Travel Award Committee, Association for Tropical Biology.
1998	Mentor Women in Science and Engineering Program, University of New Mexico, NM.
1994-1995	Student Representative, Seminar Committee, Department of Zoology, University of Florida, FL.
1983-1986	Editor, RUPICOLA, bimonthly newsletter of the Sociedad Vallecana de Ornitología, Colombia.
1983-1986	Secretary, Sociedad Vallecana de Ornitología, Colombia.
1984-1985	Secretary and Treasurer, Fundación Merenberg, Colombia

REVIEWER FOR

MANUSCRIPTS: Agricultural and Forest Meteorology, American Journal of Botany, Animal Conservation, The Auk, Biological Conservation, Biological Invasions, Biotropica, Caldasia (Colombia), Caribbean Journal of Science, Community Ecology, Conservation Biology, Climatic Change, EcoScience, Ecology, Ecologia (Bolivia), Ecological Applications, Ecological Complexity, Ecological Indicators, Ecology and Evolution, Ecosphere, El Hornero, Ecosystems, Forest Ecology and Management, Global Ecology and Biogeography, Journal of Ecology, Journal of Tropical Ecology, Landscape Ecology, Landscape and Urban Planning, Oecologia, Oikos, Ornitología Colombiana (Colombia), Plant and Soil, Remote Sensing, Restoration Ecology, Revista Chilena de Historia Natural, Revista INgenio, Science of the Total Environment, Scientific Reports, The Auk, Vegetation Science, Wilson Bulletin, plus four chapters for edited books.

PROPOSALS: Dutch Research Council-The Netherlands (NWO), Fundación para la Promoción de la Investigación y la Tecnología-Banco de la República-Colombia, Instituto Colombiano de Investigaciones Científicas-Colombia (Colciencias), International Foundation Science, NASA, National Geographic Society, National Science Foundation (reviewer and panelist), National Research Agency-France, (ANR), Sigma-Xi, USDA-National Research Initiative Competitive Grants Program, USDA- National Institute of Food and Agriculture, and Wildlife Conservation Society.

SOCIETY MEMBERSHIPS

American Geophysical Union, American Ornithologists' Union, American Society of Naturalists, Association for Tropical Biology, Cooper Ornithological Society, Ecological Society of America, Sigma Xi.

WORKSHOPS ATTENDED

RCN CloudNet Meeting, Smithsonian Institute, Panama, 2015.
Mountain Waters: Resource and Risk, Alliance for Global Sustainability, MIT, Boston, MA, November 2002.
Hierarchies and Scale, Santa Fe Institute, Santa Fe, NM, 2001.
Hierarchies and Scaling, National Center for Ecological Synthesis, Santa Barbara, CA. 2001.
Fractals in Biology, Santa Fe Institute, Santa Fe, NM. 2000.
Structure and Function of Boundaries in Ecological Mosaics Workshop, Institute of Ecosystem Studies, Millbrook, NY. 2000.
Scale Breaks in Organized Systems Workshop, Resilience Network, Cedar Key, FL. 1999.
Granular Materials: Statics, Excitations, and Dynamics Workshop, CAS, The University of New Mexico, Albuquerque, NM. 1998.
Development and Application of an Integrated Conceptual Framework to Guide Research on Agricultural Sustainability based on Complex System Theories Workshop. CIAT, Cali, Colombia. 1997

PROFESSIONAL TRAINING AND DEVELOPMENT

Cyverse FLOSS Workshop. Virtual. 2021.
Data Carpentry Workshop – Python – University of Puerto Rico at Río Piedras. San Juan, PR. January 11-12 2019
Certificación Ambientes Virtuales, University of Puerto Rico at Río Piedras, San Juan, PR. 2019.
Planet Workshop. American Geophysical Union, Washington, DC. 2018
NEON Data Workshop. San Juan, PR. 2018
Data Carpentry Workshop for Instructors. San Juan, PR. May 2017.
NEON Workshop. A Hands-On Primer for Working with Big Data in R: Introduction to Hierarchical Data Formats, Lidar Data and Efficient Data Visualization Workshop. Ecological Society of America, Baltimore, US. 2015
ERDAS IMAGINE - Fall 2015
ERDAS IMAGINE - Spring 2010.
LIDAR Workshop - US Army Corps of Engineers, Puerto Rico - Fall 2007.
QEM/NSF Faculty Major Research Instrumentation Workshop, QEM Network, Washington, D. C.- Fall 2007.
5ta Conferencia de Usuarios GIS PR - Fall 2007.
QEM/NSF Faculty Career Development Workshop, QEM Network, Washington, D.C., January 2003.
Global Positioning Systems Workshop - ESA, Albuquerque, NM. 1997.
Arc-Info/GIS Introductory Course, ESRI, Charlotte, NC. 1996.

STUDENTS CONDUCTING SUPERVISED RESEARCH

60 undergraduate students taking at least one semester of Supervised Research (BIOL 4990)
6 graduate students taking one semester of Supervised Research (BIOL 6990)

STUDENTS ADVISED (undergraduates working on *tesina* or B.Sc. thesis underlined)

Yakshi Ortiz. Ph.D. in Biology. University of Puerto Rico-Río Piedras, Puerto Rico.
Ana Kilgore. M.Sc. in Biology. University of Puerto Rico-Río Piedras, Puerto Rico.
Laura Ospina. Does functional diversity influence slope stability? Investigating the spatial relationship between functional traits and landslide activity in a tropical mountainscape M.Sc. in Biology. University of Puerto Rico-Río Piedras, Puerto Rico. 2024

- Rachel Cruz-Perez. Root tensile strength correlates with abiotic and biotic conditions: A macroecological approach. B.Sc. in Environmental Sciences. University of Puerto Rico-Río Piedras, Puerto Rico. 2021
- Yakshi Ortiz. 2021. Landsliding and rhizobiota link the short- and long-term carbon cycle through silicate rock weathering. M.Sc. in Biology. University of Puerto Rico-Río Piedras, Puerto Rico.
- Zuania Colon. 2018. Efecto de la temperatura sobre el desarrollo de *Eleutherodactylus coqui*: Integración entre mecanismos que influyen el fenotipo. M.Sc. in Biology. University of Puerto Rico-Río Piedras, Puerto Rico.
- Emily Diaz-Vallejo. 2018. Variation in below-ground ecosystem attributes along a topographic-fire matrix in a tropical mesic forest. B.Sc. in Environmental Sciences. University of Puerto Rico-Río Piedras, Puerto Rico.
- Diana Delgado. 2015. Disentangling Vine-Invaded Tropical Landscapes - From Individual Vine Patches to Vine Networks. Ph. D. in Biology. University of Puerto Rico-Río Piedras, Puerto Rico.
- Josimar Figueroa. 2014. Enredaderas invasoras y la sostenibilidad de paisajes rurales en Puerto Rico. B.Sc. Interdisciplinary Studies, University of Puerto Rico-Río Piedras, Puerto Rico.
- Johanna Colón. 2009. Socioeconomic change as drivers of water quality regime shifts in the Río Grande de Arecibo Watershed. B.Sc. Environmental Sciences, University of Puerto Rico-Río Piedras, Puerto Rico.
- Rodney Rodriguez. Land-use change and its impact on the butterflies of the "La Tula" watershed, Puerto Rico. M.Sc. Biology, University of Puerto Rico-Río Piedras, Puerto Rico.
- Andrés Cuervo. 2005. Does Landscape Fragmentation Influence the Phenotype? Testing the Variation in Bilateral Asymmetry, Morphology, and Feather Growth Rates of Tropical Andean birds.
- Johanna Delgado-Acevedo. 2005. Effects of Land-use Change on the Morphology of Puerto Rican Frogs. M.Sc. Biology, University of Puerto Rico-Río Piedras, Puerto Rico.
- Andrés Cuervo. 2002. Effect of Habitat Fragmentation on Andean Birds: Body Size and Fluctuating Asymmetry. B.Sc. Universidad de Antioquia, Medellín, Colombia
- Zoraida Calle. 2002. *Fenología y Regeneración Natural del Arboloco Montanoa quadrangularis Sch. Bip. Asteraceae en una localidad de los Andes Septentrionales: Implicaciones para su Uso en la Restauración Ecológica de los Bosques Andinos*. M.Sc. Biology, Universidad del Valle, Cali, Colombia.
- Arlex Vargas. 1998. *La Influencia de Claros de Bosque y Bordes de Origen Antropogénico en la Germinación y Crecimiento de Semillas de dos Especies de Arbustos Neotropicales*. B.Sc. Departamento de Biología, Universidad de Antioquia, Medellín, Colombia.

POSTDOCS MENTORED

Humberto Perotto-Baldiviezo
Carlos Ramos-Scharron
Lindsey Sutton
Francisco Alvarez