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EDUCATION

Ph.D. Texas A&M University-Kingsville, Texas, USA, 2006-2010. Wildlife Sciences

*Feral pig management in Texas: A landscape genetics approach*

The invasive feral pig represents a threat to the sustainability of multiple agriculture products due to damage and disease risk. Population reduction (trapping or shooting) is the best current alternative for controlling feral pig damage, but it is inefficient because feral pigs from neighboring areas quickly re-colonize managed areas. We used a panel of genetic markers to investigate feral pig population structure with the ultimate goal of increasing the effectiveness of feral pig management strategies within the agroecosystems of southern Texas. The analyses revealed that large expanses of homogeneous habitat promote dispersal and movements and would require spatially extensive control efforts to manage feral pigs.

M.S. University of Puerto Rico, Río Piedras, Puerto Rico, 2005. Topical Biology

*The effect of habitat loss on morphology in two Eleutherodactylus species of Puerto Rico*

Amphibian populations have been declining worldwide and the exact mechanisms underlying these changes are not well understood. We examined environmentally induced phenotypic changes that may reflect ongoing stresses on individuals and therefore their ability to persist in increasingly changing landscapes. Specifically, we evaluated the contribution of habitat loss on the size, allometry, and levels of fluctuating asymmetry of *Eleutherodactylus antillensis* and *E. coqui*, 2 common species that are endemic to Puerto Rico. Analyses suggested an effect of habitat loss on body shape. Because body size scales with a variety of physiological, life history, and ecological traits, conservation programs aimed at monitoring morphological changes in amphibians may help in understanding the mechanisms that contribute to their persistence in changing environments.

B.S. University of Puerto Rico, Cayey, Puerto Rico, 1999. *Biology*

Undergraduate research through the Howard Hughes Research Program. Semester and summer rotations in the areas of Organic chemistry, Microbiology, Microbial Ecology, and Ecology. Minority Biomedical Research Support for senior year in the area of Biochemistry, University of Puerto Rico-Medical Sciences campus.

PROFESSIONAL EXPERIENCE AND SERVICES

2014 – present. Assistant Professor, Texas A&M University – Commerce, Department of Biological and Environmental Sciences. Teaching and research appointment. Teach: Environmental Toxicology, Environmental Geography, Natural Disasters, Principles of Sustainability, and Research Methods for Environmental Sciences

2012-2014. Research Coordinator, Pontifical Catholic University of Puerto Rico and Casa Pueblo, Inc. Coordinate, design, organize, promote and participate in research and academic activities of the University and the community. Serve as the liaison between faculty and students and the community to provide services to schools, farmers, small and local business and the community in general. Promote and sustain research activities, education aimed to the conservation and sustainable development of the region interacting with municipal, state, and federal government agencies involved in land and natural resource management.

2012-2014. Adjunct faculty, Pontifical Catholic University of Puerto Rico, School of Architecture. Teach a fifth year class: Ecological principles in the building environment. Serve as an ecology and sustainability consultant to students and professors.

2013 – present. Volunteer: K-16 curriculum development and/or educational programming for Schools for the Humanity, Model Forest Tierras Adjuntas. The curriculum is extensive, adaptable, and interdisciplinary. Topics have a scientific value, but also a cultural, social, and community values. Curriculums are design to stimulate the discovering curiosity and to strengthened self-confidence of students.

2011-2012. Visiting Assistant Professor, Sul Ross State University. Teach undergraduate and graduate classes in the Natural Resource Management Department. Undergraduate classes include Wildlife Identification and Wildlife management Techniques. Graduate classes include Advance Research techniques.

2009 – 2011. Director of the Botanical Garden of the University of Puerto Rico. Supervise and management of 50 employees in three areas of the administration of the Botanical Garden: Science, Education, and Physical Plant.

2007-2009. Ecological Society of America Student Section Secretary

1999-2001, 2003-2005 Graduate Teaching Assistant, Department of Biology, University of Puerto Rico, Teaching General Biology and Zoology laboratories to undergraduate students.

2002. Smithsonian Institution Biodiversity Assessment and Monitoring for Adaptive Management Course. Herpetology instructor; Teach monitoring techniques and study design for herps.

1992- present. Volunteer work- CasaPueblo Cultural Center, Adjuntas, Puerto Rico. Casa Pueblo, is a self-reliant community organization which advocates for the protection and conservation of the historical, economic, cultural, human, and natural resources of the central zone of Puerto Rico. The goal of Casa Pueblo is to promote alternatives for the sustainable development and the human and cultural values affirmation for Puerto Rico. Work in community organization and services.

1992 – present. Volunteer work- Bosque del Pueblo Management Council Adjuntas, Puerto Rico. Work in the first managing council in Puerto Rico designing strategies and supervising activities in Bosque del Pueblo (People's Forest).

## PUBLICATIONS

**Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell, and D. Long. 2013. *Effects of local-scale removals on feral swine population dynamics*. International Journal of Pest Management doi:10.1080/09670874.2013.776723.**

**Delgado-Acevedo, J., A. Zamorano, R. W. DeYoung, T. A. Campbell, D. Hewitt, and D. Long. 2010. *Frequency and extent of multiple paternity in feral pigs*. Wildlife Research 37:539-546.**

Campbell, T.A., R.W. DeYoung, E.M. Wehland, L.I. Grassman, D.B. Long, and **J. Delgado-Acevedo**. 2008. ***Feral Swine Exposure Rates to Selected Viral and Bacterial Pathogens in Southern Texas***. Journal of Swine Health and Production 16:312-315.

**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.**

Pérez-Buitrago N., M. A. García, A. Sabat, **J. Delgado-Acevedo**, A. Álvarez, W. O. McMillan and S. M Funk. 2008. ***Do headstart programs work? Survival and body condition in headstarted Mona Island iguanas Cyclura cornuta stejnegeri***. Endangered Species Research 6:55-65.

**Delgado-Acevedo, J.**, A. Zamorano, R. W. DeYoung, and F. Bryant. 2008. ***Cryptozoology: a case study using molecular markers to identify cryptic species***. Proceedings of the 2008 Southeastern Association of Fish and Wildlife Agencies, Corpus Christi, Texas, USA.

**Delgado-Acevedo, J.**, R.W. DeYoung, and T.A. Campbell. 2007. ***Landscape genetics of feral swine and implications for management***. Pages 451-453 in Proceedings of the International Symposium: Managing Vertebrate Invasive, USDA/APHIS/WS, National Wildlife Research Center, Fort Collins, CO, USA.

**Delgado-Acevedo, J.**, R.W. DeYoung, and T.A. Campbell. 2007. ***The Landscape genetics of an invasive species: the case of feral pigs***. Proceedings of the 12<sup>th</sup> Wildlife Damage Management Conference, Corpus Christi, Texas, USA.

Dale, Virginia, **J. Delgado-Acevedo** and J. MacMahon. 2005. ***Effects of modern volcanic impacts on vegetation***. In J. Marti and G. Ernst (edit.) Volcanoes and Environment. Cambridge University Press, New York, USA.

**Delgado-Acevedo, Johanna.** 2001. ***Variación en la abundancia del coquí común, Eleutherodactylus coqui, en un bosque nativo y en una plantación de Eucalyptus robusta***. Acta Científica 15:105-110.

**Delgado-Acevedo, Johanna.** 2000. ***Abundancia y distribución de lagartos en la Isla de Mona, Puerto Rico***. Acta Científica 14:61-66.

Massol-Deyá, A., Delgado-Acevedo, J., Dragoni, A., and A. Massol-González. *In press*. **Transformando la política forestal en Puerto Rico desde la base comunitaria**

#### FELLOWSHIPS AND AWARDS

Faculty Enhancement seed grant \$700

Miranda foundation, Forest School La Olimpia "Ariel Massol Deyá": Towards an humanizing education 2014-\$90,000

Carvahal Foundation, Bosque del Pueblo restoration 2014-\$17,000

Building Bridges, Sierra Club 2010-\$15,000

C.R. and Rebecca Palmer Student Scholarship in Wildlife Management for 2009-\$3000

Quail Unlimited Scholarship in Wildlife Management for 2009-\$3000

Caesar Kleberg Wildlife Research Institute Graduate Student Scholarship in Wildlife Science 2008-\$3000

Presidential Scholarship- Texas A & M – Kingsville 2006-2008-\$18000 per year

National Science Foundation – EPSCORE 2001-2002 \$18000-per year

Declining Amphibian Population Task Force – Seed grant 2001-\$2000

MGE (Minority Graduate Education Program) 1999 – 2001-\$800 per year

Howard Hughes Travel Award, Simposio de Zoología (IES) 2000, La Havana, Cuba-\$2000

Latin American Fellow for Biodiversity Assessment and Monitoring for Adaptive Management Course 2001-\$4000

OTS fellow for the course Agroecología 2001-\$4000

XXXI International Course on Protected Areas and Climate Change, CATIE-\$3000 Robert C. Byrd Scholarship

#### INTERNATIONAL COURSES

XXXI International Course on Protected Areas and Climate Change, CATIE (June 2010)

VII International Course on Design and Analysis of Conservation Projects (January 2001)

2001 MAB Biodiversity Assessment and Monitoring for Adaptive Management Course

Agroecología 2001 (Organization of Tropical Studies).

## PRESENTATIONS

Delgado-Acevedo, J. Agroforestry Symposium, University of Puerto Rico – Utuado-Annual Symposium, Puerto Rico 2013. ***Academia and Community: building a sustainable development for Puerto Rico.***

Delgado-Acevedo, J. Social Doctrine Seminar, Pontifical Catholic University, Puerto Rico 2013, ***Sustainability and the social doctrine.***

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell, The American Society of Mammalogists Annual Meeting, Fairbanks, Alaska, USA 2009, ***Landscape genetics of feral pigs in southern Texas***

Delgado-Acevedo, J., A. Zamorano, R. W. DeYoung, T. A. Campbell, The American Society of Mammalogists Annual Meeting, Fairbanks, Alaska, USA 2009, ***Phylogenetic relationship between feral pigs in the USA***

Delgado-Acevedo, J., A. Zamorano, R. W. DeYoung, T. A. Campbell, D. Long. The American Society of Mammalogists Annual Meeting, Fairbanks, Alaska, USA 2009, ***Molecular markers to evaluate the effectiveness of feral pigs (Sus scrofa) damage control***

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell, The Wildlife Society Annual Meeting, Miami, FL, USA 2008, ***Feral pigs (Sus scrofa) in Texas: population genetics, movements, and management***

Delgado-Acevedo, J., A. Zamorano, R. W. DeYoung, F. Bryant, Southeastern Association of Fish and Wildlife Agencies, Corpus Christi, TX, USA 2008, ***Cryptozoology: a case study using molecular markers to identify cryptic species***

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell, Ecological Society of America Annual Meeting, Milwaukee, WI, USA 2008, ***Feral pigs (Sus scrofa) in Texas: population genetics, movements, and Management***

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell, The Texas Chapter - Wildlife Society Annual Meeting, San Antonio, TX, USA 2008, ***Landscape genetics and invasive species management: the case of feral pigs in Texas***

Delgado-Acevedo, J., A. Zamorano, R. W. DeYoung, T. A. Campbell, The Texas Chapter - Wildlife Society Annual Meeting, San Antonio, TX, USA 2008, ***Wild boar or three little piggies? A genetic evaluation of feral pig ancestry in Texas. Third prize graduate student competition***

Zamorano, A., J. Delgado-Acevedo, R. W. DeYoung, T. A. Campbell, The Texas Chapter – Wildlife Society Annual Meeting, San Antonio, TX, USA 2008, ***Cryptozoology: a case study using molecular markers to identify cryptic species***

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell, The Wildlife Society Annual Meeting, Tucson, AZ, USA 2007, ***The landscape genetics of invasion: the feral pigs of south Texas***

Delgado-Acevedo, J., A. Zamorano, R. W. DeYoung, T. A. Campbell, D. Hewitt, The Wildlife Society Annual Meeting, Tucson, AZ, USA 2007, ***Frequency and extent of multiple paternity in feral pigs: implications for disease transmission***

Delgado-Acevedo, J., R.W. DeYoung, T. A. Campbell, Invasive Species Symposium: Managing Vertebrate Invasive Species, Fort Collins, CO, USA 2007, ***Landscape Genetics of Feral Swine & Implications for Management***

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell, Ecological Society of America Annual Meeting, San José, CA, USA 2007, ***Population genetics of an invasive species, Sus scrofa: Implications for their behavior and management***

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell, 12<sup>th</sup> Wildlife Damage Management Conference, Corpus Christi, TX, USA, 2007, ***A landscape-genetic approach to the management of feral pigs in South Texas***

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell, The Wildlife Society-Texas Chapter, Beaumont, TX, USA 2007, ***The landscape genetics of an invasion: the feral pigs of south Texas***

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell, Weed Science Society Annual Meeting, San Antonio, TX, USA 2007, ***A landscape-genetic approach to the management of feral pig in South Texas***

Villanueva, L., J. Delgado-Acevedo, M. I. Herrera, F. Castro, and C. Restrepo. 2007. Association for Tropical Biology and Conservation, Morelia, Mexico ***Body size in neotropical amphibian communities and its role in predicting their conservation status.***

Delgado-Acevedo, J. and C. Restrepo, Ecological Society of America Annual Meeting, Memphis, TN, USA 2006, ***Morphological variation in two *Eleutherodactylus* frogs in response to land-cover and land-use change in the northern karst region of Puerto Rico.***

Delgado-Acevedo, J. and C. Restrepo, Caesar Kleberg Wildlife Research Institute 25<sup>th</sup> Anniversary, Texas A&M-Kingsville, Texas, USA 2006, ***The effect of habitat loss on body size, allometry, and bilateral asymmetry in two *Eleutherodactylus* (*Anura: Leptodactylidae*) species of Puerto Rico***

Delgado-Acevedo, J. and C. Restrepo, Ecolunch, Graduate Students Seminar, University of Puerto Rico, Río Piedras 2004, ***Body size, species richness, and temporal and spatial patterns of fluctuating asymmetry in amphibians of the karstic region of Puerto Rico***

Delgado-Acevedo, J. and C. Restrepo, Multimodality in ecological data: A theoretical puzzle and a statistical challenge, University of Puerto Rico 2004, ***Island size, species richness, and the distribution of body size in Caribbean amphibians***

Delgado-Acevedo, J. and C. Restrepo, I Graduate Research Symposium: The Biology in the New Millennium, University of Puerto Rico 2003, ***Museum Collections as Useful Resource Assessing Patterns of Diversity: Amphibians and the Threatened Karstic Region of Puerto Rico***

Delgado-Acevedo, J., 2002 MAB Biodiversity Assessment and Monitoring for Adaptive Management Course, Adjuntas, Puerto Rico, ***Field Techniques for the study of Amphibians and Reptiles***

Delgado-Acevedo, J., Simposio de investigaciones en el Bosque del Pueblo, Adjuntas, Puerto Rico 2002 ***Anfibios y reptiles del Bosque del Pueblo***

Delgado-Acevedo, J. and C. Restrepo, Ecolunch, Graduate Students Seminar, University of Puerto Rico, Río Piedras 2002 ***Assemblages of amphibians of Puerto Rico: Fragmentation and Land use changes***

Delgado-Acevedo, J., VII International Course on Design and Analysis of Conservation Projects 2001 ***Comparación de riqueza y abundancia de especies de anfibios *Eleutherodactylus* en tierras con diferentes usos***

Delgado-Acevedo, J., 2001 MAB Biodiversity Assessment and Monitoring for Adaptive Management Course, ***Eleutherodactylus species of Puerto Rico***

Delgado-Acevedo, J., Agroecología (OTS) 2001 ***Eleutherodactylus species of Puerto Rico***

Dale, Virginia, J. Delgado-Acevedo and J. MacMahon, Biology Honor Society (βββ) Biannual Convention, San Diego, California 1998 ***Effects of Modern Volcanic Impacts on Vegetation***

Dale, Virginia, J. Delgado-Acevedo and J. MacMahon, MBRS Annual Symposium, University of Puerto Rico-Cayey 1997, ***Effects of Modern Volcanic Impacts on Vegetation***

Delgado-Acevedo, J. and M. Rubin, Historically Black Collages and Other Minorities Institution Program Symposium. 1997 ***Tropical Soils Microorganisms Capable of Petroleum degradation***

Delgado-Acevedo, J. and A. Massol-Deyá, University of Puerto Rico-Cayey, Howard Hughes Program Semester Symposium 1996 ***Degradation of Petroleum Using Tropical Soil Microorganism***

Delgado-Acevedo, J. and L. Torres, University of Puerto Rico-Cayey, Howard Hughes Program Semester Symposium 1996 ***Purification of Trans-3,4-benzo-1,2,5-triphenylsilacyclopentane***

Delgado-Acevedo, J., University of Puerto Rico-Cayey, Howard Hughes Program Semester Symposium 1995 Abundance of ***Photosynthetic Microorganisms in Pristine and Disturbed Environments***

#### INVITED PRESENTATIONS

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell , National Wildlife Research Center, Project Review for Pseudorabies and Feral Swine Project, Kingsville, TX, USA 2008. **Using molecular markers to help manage feral swine (*Sus scrofa*) in Texas**

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell , University of Puerto Rico - Cayey, Undergraduate Students Seminar, Cayey, Puerto Rico 2008. **A landscape genetics approach to manage feral pigs in south Texas**

Delgado-Acevedo, J., R. W. DeYoung, T. A. Campbell , University of Hawai'i - Manoa, Department of Geography Seminar Series, Honolulu, Hawai'i 2011. **A landscape genetics approach to manage feral pigs in south Texas**

#### LANGUAGES

English  
Spanish