**CURRICULUM VITAE**

**Michael L. Treglia, Ph.D.**

Postdoctoral Research Associate

Department of Biological Science

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**Research Interests**

My research is focused on identifying conservation strategies for endangered species while advancing analytical techniques and our understanding of ecology. I integrate methods from statistics, GIS, and remote sensing to study landscape-scale patterns and processes, often learning new skills and working with collaborators. My research has largely focused on herpetofauna, though I am interested in extending my work to other taxa and entire ecosystems.

**Education**

2009-2014. Ph.D., Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX.

2007-2010 M.S., Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX.

2004-2007 B.S., Natural Resources, Cornell University, Ithaca, NY.

**Research Experience**

2014-Pres **Postdoctoral Research Associate.** Focused on understanding how plasticity and variability of life-history traits for amphibians may influence effects of climate change. Supervisor: Dr. Ron Bonett, University of Tulsa

2009-2014 **Dissertation.** Title:*Conservation of the endangered Arroyo Toad across multiple scales.* Five chapters focused on identifying threats to, and conservation opportunities for, the Arroyo Toad (*Anaxyrus californicus*). Supervisor: Dr. Lee Fitzgerald, Texas A&M University.

2007-10 **Master’s Thesis.** Title: *A translocated population of the St. Croix Ground Lizard: Analyzing its detection probability and investigating its impacts on the local prey base.* Four chapters focused on understanding the ecology of the endangered St. Croix Ground Lizard (*Ameiva polops*), and examining effects of the species’ detectability on monitoring. Supervisor: Dr. Lee Fitzgerald, Texas A&M University.

2007 **Research Assistant.** Collected field data for a long-term study on relationships between forestry management, coarse woody debris, and biodiversity. Supervisor: Dr. Stephen Morreale, Cornell University.

2005-07 **Research Assistant.** Maintained collection of live reptiles for research and teaching, including over 40 venomous snakes and lizards. Supervisor: Dr. Harry Greene, Cornell University.

2006 **NSF-REU Intern.** Conducted undergraduate research on reptiles and amphibians of St. Vincent, Lesser Antilles, resulting in four publications. Supervisor: Dr. Robert Powell, Avila University.

2004-05 **Lab Assistant.** Set up soil samples for chemical analysis with gas chromatograph. Supervisor: Dr. Joseph Yavitt, Cornell University.

2003-04 **Intern**. Bred poison dart frogs and analyzed effects of different diets on growth and development rates of the tadpoles. This research was submitted to Intel Science Talent Search Competition. Supervisor: Ms. Cathy Eser, Staten Island Zoo.

2002-04 **Intern.** Collected field data on pond turtles in New York for long-term research projects. Supervisor: Mr. David Karrmann, American Museum of Natural History.

**Fellowships, Grants, and Awards**

2013-14 Tom Slick Doctoral Dissertation Fellowship. College of Agriculture and Life Sciences, Texas A&M University. $25,000.

2013 Willie May Harris Fellowship for Outstanding Teaching Assistants, College of Agriculture and Life Sciences, Texas A&M University. $12,000.

E. E. Williams Research Grant, The Herpetologists’ League. $1,000.

Sylvia Scholarship, Mensa Foundation. $600.

2012, 2013 Travel Grants, Ecology and Evolutionary Biology Program at Texas A&M. $675; $700.

2010-12 NSF-IGERT Traineeship for the Applied Biodiversity Science Doctoral Program at Texas A&M University. $84,000.

2009 Outstanding Master’s Student, Department of Wildlife and Fisheries Sciences, Texas A&M University.

2008 2nd Place for Talk, “An Invasive Anole, *Anolis sagrei*, on St. Vincent and its Potential Impact on Native Anoles.” Student Research Week, Texas A&M University.

2007-08 Regents Graduate Fellowship, Texas A&M University. $15,000.

2007 Ullman Scholarship, Cornell University. $500.

2005 Arthur H. and Karin A. Nelson Scholarship, Cornell University. $500.

**Publications** *(In Review and In Prep. Manuscripts are available upon request)*

In Revision Fitzgerald, L.A., **M.L. Tregli**a, N. Angeli, T.J. Hibbitts, D.J. Leavitt, A.L. Subalusky, I. Lundgren, and Z. Hillis-Starr. Determinants of successful establishment of a new population of the critically endangered St. Croix Ground Lizard (Teiidae: *Ameiva polops*). In Revision for *Restoration Ecology.*

In Review **Treglia, M.L.**, R.N. Fisher, and L.A. Fitzgerald. Integrating potential and current species distribution models to identify conservation opportunities for an endangered toad. Submitted to *Biological Conservation*.

In Review Wang, H.H., C.L. Wonka, **M.L. Treglia**, W.E. Grant, F.E. Smeins, W.E. Rogers. Species distribution modeling of an endangered endemic orchid, *Spiranthes parksii* (Correll). Submitted to *AoB Plants*.

**Treglia, M.L.** and L. A. Fitzgerald. Pitfalls of population estimation: understanding effects of activity on availability bias and population estimates using a field study and a simulation model. Submitted to *Wildlife Research*.

2013 **Treglia, M.L.**, J. Valiulis, D. J. Leavitt, and L.A. Fitzgerald. 2013. Establishment of the Puerto Rican Ground Lizard (*Ameiva exsul*: Teiidae), on St. Croix, U.S. Virgin Islands: a threat to native fauna. *Caribbean Journal of Science* 47(2-3): 373-378.

2011 **Treglia, M.L.** and L.A. Fitzgerald. 2011. Translocation of the St. Croix ground lizard to Buck Island Reef National Monument, St. Croix, U.S. Virgin Islands. Pp. 109-115. In. Soorae P.S. (ed.) (2011). *Global Re-introduction Perspectives: 2011. More case studies from around the globe.* Gland, Switzerland: IUCN/SSC Re-introduction Specialist Group and Abu Dhabi, UAE: Environment Agency-Abu Dhabi. Xiv +250 pp.

2009 **Treglia, M.L.**, O. Ramirez. 2009. *Nerodia rhombifer*. Geographic distribution. *Herpetological Review* 40(2):238.

2008 **Treglia, M.L.**, A.J. Muensch, R. Powell, and J.S. Parmerlee, Jr. 2008. An invasive anole, *Anolis sagrei* on St. Vincent and its potential impact on native anoles. *Caribbean Journal of Science* 44(2):251–256.

Henderson, R.W., **M.L. Treglia**, and S.D. Powell. 2008. *Corallus cookii*. Foraging. *Herpetological Review* 38(4):466.

2007 Powell, S.D., **M.L. Treglia**, R.W. Henderson, and R. Powell. 2007. Treeboas in the West Indies: responses of *Corallus cookii* and *C. grenadensis* to disturbed habitats. Pp. 374–387 in: R. W. Henderson and R. Powell (eds.). *Biology of the Boas and Pythons*. Eagle Mountain Publ., Utah.

2006 **Treglia, M.L.** 2006. An annotated checklist of the amphibians and reptiles of St. Vincent, West Indies. *Iguana* 13: 252–263.

In Prep. **Treglia, M.L.** and L.A. Fitzgerald. A field experiment on the effects of an active-foraging lizard on its invertebrate prey base. Target Journal: *Journal of Zoology*.

**Technical Reports**

2014 **Treglia, M.L.** 2014. Results of surveys for the endangered Arroyo Toad (*Anaxyrus californicus*) in 2013. Annual Report to the U.S. Fish and Wildlife Service and California Department of Fish and Wildlife.

2010 **Treglia, M. L.** and L. A. Fitzgerald. 2010 The translocation of the St. Croix ground lizard, *Ameiva polops*, to Buck Island Reef National Monument. Final Report to the National Park Service, U.S. Fish and Wildlife Service and Virgin Islands Department of Planning and Natural Resources.

**Treglia, M. L.** and L. A. Fitzgerald. 2010 Population estimation of the St. Croix ground lizard, *Ameiva polops*, on Protestant Cay and Ruth Cay, St. Croix, United States Virgin Islands. Final Report to the United States Fish and Wildlife Service (Cooperative Agreement 401917J125).

**Oral Presentations** *(\* indicates Invited Presentation)*

2014 Treglia, M.L. and G.T. Kyle. 18-14 May 2014. Estimating effects of land cover at multiple scales on habitat for the endangered arroyo toad. In J. Franklin, J.M. Sierra-Diaz, and L. Sweet (Chairs), *Impacts of Global Change: Linking Across Scales*. Symposium presented at the Annual Meeting of the U.S. Regional Association of the International Association for Landscape Ecology, Anchorage, AK.

2013 **Treglia, M.L.** and R.N. Fisher. Integrating Historic and Current Distribution Models of an Endangered Species to Benefit Conservation. *Annual* *Meeting of the* *U.S. Regional Association of the International Association for Landscape Ecology*, *Austin, TX.*

**\*Treglia, M.L.** Conservation of the Endangered St. Croix Ground Lizard. *Lecture to Aggies for the Protection of Endangered Species at Texas A&M University.*

2011 **\*Treglia, M.L.** Manifold GIS: Exploring the Capabilities of an Alternative GIS Package. *U.S. Geological Survey, Western Ecological Research Center – San Diego Field Station. San Diego, CA.*

**Treglia, M.L.** Anthropogenic Disturbances and Conservation of Endangered Amphibians in a Semi-arid Landscape: A Proposal Talk. *12th Annual Ecological Integration Symposium, Texas A&M University.*

2010 **Treglia, M.L.** and L.A. Fitzgerald. Effects of an Insular Lizard Translocation on the Local Invertebrate Assemblage. *Annual* *Meeting of the Ecological Society of America, Pittsburgh, PA.*

**Treglia, M.L.** and L.A. Fitzgerald. Impacts of a Translocated Lizard on an Island Arthropod Assemblage. *11th Annual Ecological Integration Symposium, Texas A&M University.*

2009 **Treglia, M.L.** and L.A. Fitzgerald. Effects of Detectability on Lizard Population Estimates. *Annual* *Meeting of the* *Southwestern Association of Naturalists, Monterrey, Nuevo Leon, MX.*

2008 **Treglia, M.L.** *The Translocation of an Extirpated Lizard in the Caribbean: A Proposal Talk*. *Student Research Week/9th Annual Ecological Integration Symposium, Texas A&M University*.

**Treglia, M.L.**, A.J. Muensch, R. Powell, J.S. Parmerlee, Jr. An Invasive Anole: *Anolis sagrei* on St. Vincent and its Potential Impact on Native Anoles. *Student Research Week/9th Annual Ecological Integration Symposium, Texas A&M University.*

**Poster Presentations**

2012 **Treglia, M.L.** and A.C. Landon. Integrative Research for Biodiversity Conservation and Water Resource Management. *Student Conference on Conservation Science - New York. New York, NY.*

**Treglia, M.L.** and R.N. Fisher. Presence-Only Modeling to Understand the Historic Distribution of an Endangered Toad. *7th World Congress of Herpetology. Vancouver, BC, Canada*

2011 **Treglia, M.L.** Conserving an Endangered Toad in a Dynamic Landscape. *1st Annual NSF-IGERT Online Competition*. Available online at: http://www.igert.org/posters2011/posters/94

2009 **Treglia, M.L.** Effects of Detectability on Population Estimates of the Ground-Dwelling Lizard, *Ameiva polops*. *10th Annual Ecological Integration Symposium, Texas A&M University*.

**Service**

2014 Reviewer for E.E. Williams Research Grant Program, The Herpetologists’ League.

2011-12 Co-Chair of the 13th Annual Ecological Integration Symposium, Texas A&M University.

2010-11 Treasurer of the Association of Graduate Wildlife and Fisheries Scientists.

2009-10 President of the Association of Graduate Wildlife and Fisheries Scientists.

Web-Designer for the 11th Annual Ecological Integration Symposium, Texas A&M University.

Judge for Student Research Week, Texas A&M University.

2007-08 Mentor for Undergraduate Research Group at Texas A&M University, supervised by Dr. Lee Fitzgerald.

2006-07 Co-President of the Cornell Herpetological Society.

2005-06 Treasurer of the Cornell Herpetological Society.

2004-06 Docent at Staten Island Zoo.

**Reviewer for the following journals:** *Ecological Modeling* (2013)*; Herpetologica* (2013)*; Herpetological Conservation and Biology* (2013)*;* *Journal of Applied Ecology* (2012-2013)*; Herpetological Review* (2012-2013)*; Biological Invasions* (2012)*; Journal of Biogeography* (2008)*; Applied Herpetology* (2007)*.*

**Member of the following organizations:** The Herpetologists’ League; Society for the Study of Amphibians and Reptiles; U.S. Regional Association of the International Association for Landscape Ecology.

**Teaching Experience**

2010, 2013 TA for *Herpetology*, Texas A&M University, College Station, TX.

2012 Guest Lecturer for class, *Recreation Management of Wildlands*, Texas A&M University, College Station, TX.

2007, 2012 TA for *Natural History of the Vertebrates*, Texas A&M University, College Station, TX.

2009 TA for *Fundamentals of Ecology Lab*, Texas A&M University, College Station, TX.

2008 TA for *Natural History of the Invertebrates*, Texas A&M University, College Station, TX.

**References**

**Dr. Lee Fitzgerald –** Chair of Doctoral Committee

Professor and Curator, Biodiversity Research and Teaching Collections

Department of Wildlife and Fisheries Sciences

Co-Director Applied Biodiversity Science Doctoral Program

Texas A&M University

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**Dr. Robert Fisher –** Collaborator; Member of Doctoral Committee

Research Biologist

Western Ecological Research Center, San Diego Field Station

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**Dr. Inci Guneralp** **–** Instructor for course, *Modeling the Environment*; Member of Doctoral Committee

Assistant Professor

Department of Geography

Texas A&M University

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**Dr. Gerard Kyle –** Collaborator; Member of Doctoral Committee

Professor

Department of Recreation, Parks, and Tourism Sciences

Texas A&M University

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**Dr. Robert Powell** **–** Mentor for Undergraduate Research

Professor

Department of Biology

Avila University

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**Dr. Hsiao-Hsuan (Rose) Wang –** Collaborator

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