

# CURRICULUM VITAE

## Michael L. Treglia, Doctoral Candidate

Department of Wildlife and Fisheries Sciences  
 Applied Biodiversity Science NSF-IGERT Doctoral Program  
 Ecology and Evolutionary Biology Program  
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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-Pres. Ph.D., Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX.  
 2007-10 M.S., Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX.  
 2004-07 B.S., Natural Resources, Cornell University, Ithaca, NY.

### Research Experience

2009-Pres. **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 2<sup>nd</sup> 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 **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. Parmelee, 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. Fitzgerald, L.A., **M.L. Treglia**, N. Angeli, T.J. Hibbitts, D.J. Leavitt, A.L. Subalusky, I. Lundgren, Z. Hillis-Starr. Correlates to successful establishment of a new population of the critically endangered St. Croix Ground Lizard (Teiidae: *Ameiva polops*). Target Journal: *Restoration Ecology*.
- Treglia, M.L.** and R.N. Fisher. Identifying conservation opportunities for an endangered toad using current and historic distribution models. Target Journal: *Diversity and Distributions*.
- 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*.
- Wang, H.H., C.L. Wonkka, **M.L. Treglia**, W.E. Grant, F.E. Smeins, W.E. Rogers. Preservation and reintroduction of an endangered orchid: current and potential distribution of *Spiranthes parksii* in central Texas. Target Journal: *Applied Vegetation Science*.

### **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)

- 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. *12<sup>th</sup> 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. *11<sup>th</sup> 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/9<sup>th</sup> 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/9<sup>th</sup> 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. *7<sup>th</sup> World Congress of Herpetology. Vancouver, BC, Canada*
- 2011 **Treglia, M.L.** Conserving an Endangered Toad in a Dynamic Landscape. *1<sup>st</sup> 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.* *10<sup>th</sup> 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 13<sup>th</sup> 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 11<sup>th</sup> 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:** *Wildlife Research* (2014); *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.