

MICHAEL L. LOGAN
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Curriculum Vitae

Appointments

Biodiversity Genomics Fellow, 2017 - Present

Smithsonian Tropical Research Institute, Panama
Host: W. Owen McMillan

Postdoctoral Fellow, 2016 – 2017

Harvard University, Cambridge, MA
Host: Jonathan Losos

National Science Foundation Postdoctoral Fellow in Biology, 2014 – 2016

Stellenbosch University, South Africa
Host: Susana Clusella-Trullas

Education

PhD, Biology, 2009-2014

Dartmouth College, Hanover, NH
Thesis: Ecological and evolutionary responses of tropical ectotherms to climate change
Advisor: Ryan Calsbeek

M.S., Biology, 2007-2009

University of Texas at Arlington, Arlington, TX
Thesis: Morphology and habitat use among insular populations of the lizard *Anolis lemurinus* from the Cayos Cochinos archipelago of Honduras
Advisor: Jonathan Campbell

B.A., Zoology, 2005-2007

University of Southern Illinois at Carbondale

A.S., Biology, 2002-2004

College of Lake County, Grayslake, IL

Funding and Awards

Total extramural funding = \$357,000 / Total intramural funding = \$13,600

\$112,000 – Smithsonian Institution Biodiversity Genomics Fellowship

\$65,000 – National Research Foundation Grant for Competitive Researchers. Preproposal co-written with Susana Clusella-Trullas

\$141,000 – National Science Foundation Postdoctoral Fellowship in Biology

\$25,000 – National Research Foundation Postdoctoral Fellowship in Biology (declined)

\$3,600 – Dartmouth GAANN fellowship

\$10,000 – Dartmouth Gilman Fellowship

\$12,000 (total to date, with ongoing annual renewal) – Operation Wallacea Research Grant

\$1,000 – East Texas Herpetological Society Research Scholarship
\$1,000 – Phi Sigma Biological Honor Society Research Grant
Best Poster: European Society for Evolutionary Biology (Switzerland, 2015)
Outstanding Graduate Student Teacher Award – Dartmouth College. Selected by Dartmouth Undergraduates.
Best Student Paper Award finalist, Society for Integrative and Comparative Biology meeting, San Francisco, 2013.

Forthcoming Publications

Logan ML, Curlis JD, Gilbert AL, Chung AK, Miles DB, McGlothlin JW, Cox RM. Genetic constraints on adaptation to rapid environmental change. In prep.

Logan ML, Minnaar IA, Clusella-Trullas S. The evolutionary potential of invasive species under climate change. In prep.

Minnaar IA, **Logan ML**, Hui C, Clusella-Trullas S. Invasive insects outcompete their native counterparts. In prep.

Publications

Logan ML, Duryea MC, Molnar O, Kessler B, Calsbeek R. 2016. Spatial variation in climate mediates gene flow across an island archipelago. *Evolution*, (70) 2395-2403.

Logan ML, Fernandez SG, Calsbeek R. 2015. Abiotic constraints on the activity of tropical lizards. *Functional Ecology*, (29) 694-700.

Logan ML, Cox RM, Calsbeek R. 2014. Natural selection on thermal performance in a novel thermal environment. *Proceedings of the National Academy of Sciences of the United States of America*, (39) 14165-14169. **Media coverage: Washington Post, Scientific American, Cosmos Magazine, Science Daily.**

Logan ML, Huynh R, Precious R, Calsbeek R. 2013. The impact of climate change measured at relevant spatial scales: new hope for tropical lizards. *Global Change Biology*, (19) 3093-3102. **Media coverage: The Register, CO2 Science, Environmental News Network, Science Daily.**

Logan ML, Montgomery CE, Boback SM, Reed RN, Campbell JA. 2012. Divergence in morphology, but not habitat use, despite low genetic differentiation among insular populations of the lizard *Anolis lemurinus* in Honduras. *Journal of Tropical Ecology*, (28) 215-222.

Invited Presentations

Symposium – Ecology and physiology of amphibians and reptiles: challenges caused by global climate change. World Congress of Herpetology, Hangzhou, China (August 2016).

Centre for Macroecology, Evolution, and Climate, University of Copenhagen (June 2015).

University of Wisconsin – Milwaukee (September 2014).

Symposium – The vulnerability of tropical ectotherms to climate change. San Juan, Puerto Rico (August 2013).

Selected Conference Presentations

Meetings attended: European Evolution, Evolution, Midwestern Ecology and Evolution, Society for Integrative and Comparative Biology, World Congress Herpetology

Alujevic K, **Logan ML**, Streicher JW, Clusella-Trullas S. 2017. The evolution of complex phenotypes in lizards: can multiple physiological functions be optimized at the same time? Entomological/Zoological Societies of Southern Africa: Pretoria, South Africa.

Fey SB, Vasseur DA, Alujevic K, **Logan ML**, Clusella-Trullas S. 2017. Microclimatic variation, behavioral thermoregulation, and thermal sensitivity jointly mediate the responses of ectotherms to rapid environmental change. Ecological Society of America: Portland, OR.

Georges J, **Logan ML**, Watson CM. 2017. Potential consequences of *Anolis cristatellus* invasion of Dominica on endemic *A. oculatus* populations in a dynamic thermal environment. Society for Integrative and Comparative Biology: New Orleans, LA.

Logan ML, Minnaar IA, Clusella-Trullas S. 2017. The evolutionary potential of a global insect invader in the face of rapid environmental change. Society for Integrative and Comparative Biology: New Orleans, LA.

Logan ML, Duryea MC, Molnar O, Kessler B, Calsbeek R. 2015. Migration-selection balance and the response of metapopulations to climate change. European Society for Evolutionary Biology: Lausanne, Switzerland. **Best Presentation Award winner.**

Logan ML, Cox RN, Calsbeek R. 2013. Natural selection on the thermal performance curve of *Anolis sagrei*. Society for the Study of Evolution: Snowbird, UT.

Logan ML. 2013. Fine-scale variation in thermal ecology suggests resilience to climate change among tropical lizards. Society for Integrative and Comparative Biology: San Francisco, CA
Selected as finalist for Best Student Paper Award.

Haughey M, Green S, **Logan M**, Boback S, Montgomery C. 2008. A comparison of body size and condition of *Boa constrictor imperator* on the Cayos Cochinos Archipelago. Society for Integrative and Comparative Biology: Boston, MA.

Logan ML, Sears M, Angilletta M. 2007. Being a mom isn't always so hot: the effects of reproductive status on thermoregulatory behavior in squamate reptiles. Society for Integrative and Comparative Biology: San Antonio, TX.

Mentorship in Research

Currently co-advising two PhD students and one masters student from universities in South Africa, the United Kingdom, and the United States.

Field research mentor to hundreds of high school students in Dominica through Operation Wallacea (2015 – 2017)

Advisor and research mentor to four undergraduate researchers at Dartmouth College (2009 – 2013)

Research and thesis advisor in Honduras to ten undergraduates and one masters student from ten U.S. and U.K. universities (2007 – 2012)

Teaching Experience

Field course: Tropical Ecological Research I & II. Teaching assistant and lecturer. Costa Rica (2013). Designed and delivered lectures for several modules on the ecology, evolution, and behavior of tropical amphibians and reptiles. Developed independent research projects with undergraduates.

Field course: Coral Reef Research. Teaching assistant and lecturer. Cayman Islands (2013). Designed and delivered lectures for several modules on the ecology, evolution, and behavior of coral reef fishes. Developed independent research projects with undergraduates.

Ecology: Laboratory instructor (2012)

Physiological Ecology: Laboratory instructor (2012)

Genetic Variation and Evolution: Laboratory instructor (2009 – 2011)

Cell and Molecular Biology: Laboratory instructor (2008)

Introductory Biology: Laboratory instructor (2007)

Reviewer

Graduate Women in Science grant proposals (www.gwis.org), American Naturalist, Biological Conservation, Biological Journal of the Linnean Society, Current Zoology, Ecological Applications, Ecology, Ecology Letters, Ecosphere, Functional Ecology, Herpetological Review, Journal of Ethology, Journal of Evolutionary Biology, Journal of Thermal Biology, National Geographic Society Grant Proposals, Nature Climate Change, Northeastern Naturalist, PeerJ, Philosophical Transactions of the Royal Society B, Physiological and Biochemical Zoology

Membership in Scientific Organizations

Society for Integrative and Comparative Biology

Society for the Study of Evolution

European Society for Evolutionary Biology