

RECENT CAREER HISTORY

American Museum of Natural History

Assistant Director, Science Research Experiences

2022 – present

Senior Manager, Youth Initiatives

2021 – 2022

Manager, Science Research Mentoring Program

2018 – 2021

Columbia University

Adjunct Assistant Professor; Senior Thesis Seminar

2021 – present

City College of New York

Adjunct Assistant Professor; Ecology and Evolutionary Biology

2021

Graduate Center; City University of New York

Doctoral Researcher

2012 – 2018

EDUCATION

Ph.D in Ecology, Evolution, and Behavior

2018

City University of New York Graduate Center at City College of New York

Graduate Research Fellow, National Science Foundation

Masters of Philosophy: Biology

2015

City University of New York Graduate Center at City College of New York

Bachelors of Science, Ecology and Evolutionary Biology

2010

Minor: Cultural Anthropology; *Magna cum Laude*; *Phi Beta Kappa Society*

University of Rochester

GRANTS, FELLOWSHIPS & AWARDS

Graduate Research Fellowship, National Science Foundation

2013 – 2018

Diversification in vanishing refugia: an integrative study of tropical montane lizards

\$132,000, including tuition award and stipend

Graduate Research Opportunities Worldwide Award, National Science Foundation

2015

Drivers of genetic diversity in a group of tropical montane lizards

Eight months of thesis research at Australian National University (ANU)

\$20,000 (Australian Dollars) awarded by ANU and \$5000 (USD) Travel Award by NSF

Conservation Research Award, The Mohamed bin Zayed Species Conservation Fund

2013

Conservation research on a narrowly endemic lizard in the Caparaó mountains of Brazil

\$4484 for field expenses

Rosemary Grant Award, The Society for the Study of Evolution

2013

Mechanistic models of biological responses to climate change in the Atlantic Forest of Brazil

\$2025 for research expenses

Young Explorers Grant, The National Geographic Society

2013

Herpetological diversity in the southern montane Atlantic Forest

\$5000 for field and research expenses

PUBLICATIONS

Mentorship and Science Education

Strangas, M; Chaffee R; Gupta P; 2019. Preparing the Next Generation of Science Mentors. *The Chronicle of Mentoring and Coaching* 3(12).

Ecology and Evolutionary Biology

Strangas, M; Navas, CA; Rodrigues, MT; Carnaval, AC. 2018. Thermophysiology, microclimates, and species distributions of lizards in the mountains of the Brazilian Atlantic Forest. *Ecography*, 42: 354-364.

Damasceno R*, **Strangas M***, Carnaval AC, Rodrigues MT and Moritz C. 2014. Revisiting the vanishing refuge model of diversification. *Frontiers in Genetics*. 5:353. [*equal contribution]

Carnaval AC, Waltari E, Rodrigues MT, Rosauer D, VanDerWal J, Damasceno R, Prates I, **Strangas M**, Spanos Z, Rivera D, Pie MR, Firkowski CR, Bornschein MR, Ribeiro LF, Moritz C. 2014. Prediction of phylogeographic endemism in an environmentally complex biome. *Proceedings of the Royal Society B* 281(1792): 20141461

Teixeira Jr, M, dal Vechio F; Recoder RS; Carnaval AC; **Strangas M;** Damasceno, RP; de Sena MA; Rodrigues MT. 2012. Two new species of marsupial tree-frogs genus *Gastrotheca* Fitzinger, 1843 (Anura, Hemiphractidae) from the Brazilian Atlantic Forest. *Zootaxa* 3437:1-73

PRESENTATION HISTORY

Oral Presentations

Strangas, M; Mabasa D. High School Internships in a Remote World. New York Museum Educators Roundtable. May 2021.

Strangas, M. Environmental drivers of genetic diversity in Gymnophthalminae lizards: integrating macroclimate, microclimate and physiology. TriState Species Distribution Modeling Group. New Haven, CT. December, 2017.

Strangas, M; Rodrigues, MT; Moritz CM; Carnaval, AC. Geographic shifts and niche dynamics in South American lizards: bringing together macroclimate, microclimate, and thermophysiology. Annual Meeting of the International Biogeography Society. Tucson, AZ. January, 2017.

Strangas, M; Rodrigues, M T; Carnaval, A. Evolutionary drivers of thermophysiology in populations of Brazilian montane lizards. Evolution Conference: Joint meeting of SSE, SSB, ASN. Guarujá, Brazil. June, 2015.

Strangas, M. Understanding divergence in Heterodactylini lizards: integrating phylogeography, environment and phenotype. State University of Sao Paulo (UNESP) Seminar Series. Rio Claro, Brazil. April, 2014.

Strangas, M; Rodrigues, M T; Carnaval, A. Mechanisms of niche divergence in a group of Atlantic Forest lizards. Society of Integrative and Comparative Biology. Austin, TX. January, 2014.

Poster Presentations

Strangas, M; Chaffee R; Gupta P; Preparing the Next Generation of Science Mentors. The Mentoring Institute: Mentoring Conference. Albuquerque, NM. October 2019.

Damasceno, RP; Ashfaq Khan, A; **Strangas, M;** McDonald, K; Carnaval, A. Linking remote sensing temperature data with thermal physiology in the Atlantic Forest. NASA Biodiversity and Ecological Forecasting Team Meeting. College Park, MD. April 2016.

Paz, A; Brown, J; Reginato, M; Khan, A; **Strangas, M**; Damasceno, R; McDonald, K; Carnaval, AC. Improving biodiversity prediction in the Brazilian Atlantic Rainforest: Mapping diversity and its environmental correlates NSF Dimensions of Biodiversity PI Meeting. Arlington, VA. January 2016.

Strangas, M; Rodrigues, M T; Carnaval, A. Thermophysiology in Brazilian montane lizards: evolutionary processes at population-, species-, and phylogenetic scales. International Evolution Conference: Joint meeting of SSE, SSB, ASN. Guarujá, Brazil. June 2015.

Recoder, R; **Strangas, M**; Carnaval A; Rodrigues MT. Phylogenetic patterns of diversification and morphological disparity in a group of microteiid lizards. International Evolution Conference. Guarujá, Brazil. June 2015.

Strangas, M; McDonald, K; Silva T; Carnaval AC. Using Remote Sensing data to understand drivers of genetic and functional diversity in the Atlantic Forest of Brazil. NASA Carbon Cycle & Ecosystems Joint Science Workshop. College Park, MD. April 2015.

Strangas, M; Almeida LS; Silva T; Rodrigues MT; Carnaval AC. Drivers of genetic and functional diversity in a montane, tropical lizard. Gordon Research Conference: Unifying Ecology across Scales. Biddeford, Maine. July 2014.

Strangas, M; Rodrigues, M T; Carnaval, A. An integrative study of niche evolution in Brazilian Atlantic Rainforest lizards. International Evolution Conference. Ottawa, Canada. June 2013.