MAURÍCIO VANCINE

Ecologist and Doctoral Student in Ecology, Evolution and Biodiversity

♣ Short version of this CV EDUCATION São Paulo State University (UNESP) CONTACT 2020 Doctoral Student in Ecology, Evolution and Biodiversity Rio Claro, SP, Brazil mauriciovancine.github.io Present **Thesis**: Effect of landscape changes on communities amphibians in the Atlantic Forest Advisor: Prof. Milton Cezar Ribeiro ■ mauricio.vancine@gmail.com mauriciovancine São Paulo State University (UNESP) 2016 Rio Claro, SP, Brazil github/mauriciovancine Master in Zoology 2018 Thesis: Diversity, distribution and effect of climate change on Atlantic Forest amphibian communities (UNESP Libraries) Advisor: Prof. Célio Fernando Baptista Haddad **THEMES** Spatial Ecology São Paulo State University (UNESP) 2011 Rio Claro, SP, Brazil Bachelor in Ecology Candscape Ecology 2014 Thesis: Effect of fragmentation on the persistence of anuran amphibians (Amphibia: Anura) within the Atlantic Forest (UNESP Libraries) Ecology Modeling **Advisor**: Prof. Milton Cezar Ribeiro Species Distribution Modeling (SDM) COMPLEMENTARY EDUCATION 1 Geoprocessing Hierarchical Modelling of Species Communities with the R-package Hmsc 2020 Teaching Ecology, • Helsinki, Finland University of Helsinki (Zoom) Statistics and R • 25 h • course School on Community Ecology: from patterns to principles 2020 São Paulo, SP, Brazil São Paulo State University (UNESP) **SKILLS** • 60 h course **R**R tidyverse Introduction to Hierarchical Modeling 2019 Federal University of Rio Grande do Sul (UFRGS) Porto Alegre, RS, Brazil M↓ markdown • 45 h • course **P**Git **P**ython 2016 Geoprocessing with GRASS GIS Rio Claro, SP, Brazil São Paulo State University (UNESP) >_ Bash • 24 h Qogis YGRASS GIS V Southern-Summer School on Mathematical Biology 2016 ⚠ GNU/Linux São Paulo, SP, Brazil São Paulo State University (UNESP) • 53 h course **LANGUAGES** Biology and conservation of amphibians and reptiles 2015 Alfenas, MG, Brazil Instituto Boitatá. IBEC Portuguese (Native speaker) • 44 h Enalish (A2) Ecological data analysis with R 2011 Spanish (A1) pagedown R package. **♀** Rio Claro, SP, Brazil São Paulo State University (UNESP) Code available on GGitHub. • 40 h

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Last updated on 2021-02-15.

♀ SCHOLARSHIP & AWARDS

2020

Doctoral Graduate Scholarship

Coordination of Superior Level Staff Improvement (Capes) (BRL 118,680.00) São Paulo State University (UNESP)

Grant 88887.513979/2020-00

Rio Claro, SP, Brazil

Title: Effect of landscape changes on communities amphibians in the Atlantic Forest

Aim: Developing

2017 2018

2024

Master Graduate Scholarship

Rio Claro, SP, Brazil São Paulo Research Foundation (FAPESP) (BRL 16,248.54) São Paulo State University (UNESP)

Grant #2017/09676-8

Title: Effect of Landscape Modifications and Climate Changes on the Persistence of Amphibians in the Atlantic Forest

Aim: (1) to present an assessment of the surveys of the amphibian communities for the Atlantic Forest, their composition and distribution: (2) to investigate how habitat loss and fragmentation on the regional scale can affect the current persistence of amphibians from different reproductive guilds; and (3) to investigate how climate change may affect the future persistence of amphibians of the genus Brachycephalus, considered highly sensitive to these climatic changes

2013 2015

Scientific Initiation Scholarship

São Paulo Research Foundation (FAPESP) (BRL 10,539.87) Rio Claro, SP, Brazil São Paulo State University (UNESP)

Grant #2013/02883-7

Title: Effect of fragmentation on the persistence of anuran amphibians (Amphibia: Anura) within the Atlantic Forest

Aim: (1) model the potential distribution based on the environmental suitability of the species of interest; (2) identify landscapes with high environmental suitability and surveys with high sampling effort in order to characterize the regional anurofauna; and (3) evaluate the relative contribution of landscape indices (percentage of forest cover, connectivity, relief and urban proximity) to the persistence of species using model selection for multiple competing hypotheses based on Akaike information theory

RESEARCH EXPERIENCE

2015 2016

Research Assistant

São Paulo State University (UNESP)

Rio Claro, SP, Brazil Spatial Ecology and Conservation Lab (LEEC)

Statistical and spatial analyzes of mammal and ants biodiversity in the Atlantic Forest Biome

• 2000 h

From 2015 to 2016, I was a Research Assistant of Prof. Milton Cezar Ribeiro where I developed statistical and spatial analysis of mammal and ants biodiversity in the Atlantic Forest Biome

PROFESSIONAL EXPERIENCE

2020

Environmental consultant

Seleção Natural

Piracicaba, SP, Brazil

• Ecological corridors Landscape metrics

 LSCorridors LSMetrics

2019

Environmental consultant

PROECO Ambiental

Poços de Caldas, MG, Brasil

2021

• Species distribution modeling

Since 2016, I have worked as an autonomous environmental consultant in the field of geoprocessing, analysis of ecological data, landscape ecology and species distribution modeling

2018 2019		Environmental consultant Seleção Natural • Ecological data analyst	♥ Piracicaba, SP, Brazil
2018	•	Environmental consultant Aquaflora	♥ Curitiba, PR, Brazil
2019		Species distribution modeling	
2018 2019		Environmental consultant Associação de Levantamento Florestal do Amazonas • Shiny App	♥ Manaus, AM, Brazil
2018 2019	•	Environmental consultant ECOnecta • SIG specialist • GRASS GIS	♥ Rio Claro, SP, Brazil
2015 2016	•	Environmental consultant Geoinform • Herpetology field assistant	♥ Rio Claro, SP, Brazil
	•	TEACHING EXPERIENCE	
		Courses Total hours: Graduate: 240 h Undergraduate: 102 h	
2020		Introduction to geospatial analysis with R Invited teacher Ecology, Biodiversity and Evolution Graduate Program São Paulo State University (UNESP) • 60 h • material	♥ Rio Claro, SP, Brazil
2020		Statistical Models in Ecology Teacher Ecology Undergraduate São Paulo State University (UNESP) • 30 h	♥ Rio Claro, SP, Brazil
2019	•	Introduction to Geoprocessing for Ethnobiology and B	iodiversity
		Conservation Invited external teacher Ethnobiology and Nature Conservation Graduate Program Rural Federal University of Pernambuco (UFRPE) • 45 h • material	♥ Recife, PE, Brazil
2018		Statistical Models in Ecology Teaching assistant Ecology Undergraduate São Paulo State University (UNESP) • 12 h	♥ Rio Claro, SP, Brazil
2017		Ecological Niche Modeling: theory and practice Teaching assistant Ecology and Biodiversity Graduate Program São Paulo State University (UNESP) • 60 h	♥ Rio Claro, SP, Brazil

Between 2018 and 2019, I composed a group of analysts to assess the impact of the Fundão dam rupture in Marina/MG (Brazil) on the Rio Doce Basin, where I compiled land cover information and built models for the distribution of terrestrial and aquatic species to several scenarios

Since my formation I develop teaching activities, initially as a monitor. From the master's degree, I help and minister undergraduate and graduate courses, especially those related to Space Ecology, Species Distribution Models, Statistical Models in Ecology and Geoprocessing.

Ecological Niche Modeling: theory and practice 2016 **Q** Campinas, SP, Brazil Teaching assistant Ecology Graduate Program The University of Campinas (UNICAMP) • 45 h **Ecological Niche Modeling in R** 2016 **♀** Rio Claro, SP, Brazil Teaching assistant Ecology and Biodiversity Graduate Program São Paulo State University (UNESP) • 30 h 2015 **Quantitative Ecology** Rio Claro, SP, Brazil Teaching assistant Ecology Undergraduate São Paulo State University (UNESP) • 60 h **Short courses** Since 2014, I teach practical Total hours: 78 h training courses, mainly related 2019 Introduction to R Language to the R language and Species Rio Claro, SP, Brazil Short course instructor Distribution Models XXX Ecology Studies Week São Paulo State University (UNESP) • 08 h • material Introduction to R Language 2019 Short course instructor **♀** Rio Claro, SP, Brazil 30^a Biology Studies Week São Paulo State University (UNESP) material 2019 Introduction to Species Distribution Modeling using R Language: theory and practice **Q** Campinas, SP, Brazil Short course instructor 9° Brazilian Congress of Herpetology The University of Campinas (UNICAMP) • 07 h material Field work with amphibians 2018 Short course instructor Rio Claro, SP, Brazil 29^a Biology Studies Week São Paulo State University (UNESP) • 08 h Field herpetology 2016 Short course instructor **♀** Rio Claro, SP, Brazil XXVII Ecology Studies Week São Paulo State University (UNESP) • 15 h 2016 Introduction to software R: data management, graphs and statistical analysis Short course instructor **♀** Rio Claro, SP, Brazil XXVII Ecology Studies Week São Paulo State University (UNESP) • 16 h

2015 • Introduction to software R

Short course instructor XXVI Ecology Studies Week São Paulo State University (UNESP) Rio Claro, SP, Brazil

• 08 h

2014 • Organization of data in electronic sheets - Calc

Short course instructor XXV Ecology Studies Week São Paulo State University (UNESP) • 08 h Rio Claro, SP, Brazil

PUBLICATIONS

2020

 13. Host diversity outperforms climate as a global driver of symbiont diversity in the bird-feather mite system

Diversity and Distributions 27(3):416-426

DOI: 10.1111/ddi.13201

Gusmão RAF, Hernandes FRA, **Vancine MH**, Naka LN, Doña J, Gonçalves-Souza T

12. Environmental niche and functional role similarity between invasive and native palms in the Atlantic Forest

Biological Invasions

DOI: 10.1007/s10530-020-02400-8

Bello C, Cintra ALP, Barreto E, **Vancine MH**, Sobral-Souza T, Graham CH, Galetti M

2020 • 11. Effects of landscape modification on species richness patterns of fruit-feeding butterflies in Brazilian Atlantic Forest

Diversity and Distributions 26(2):196-208

DOI: 10.1111/ddi.13007

Santos JP, Sobral-Souza T, Brown Jr KS, Vancine MH, Ribeiro MC, Freitas AVL

2020 • 10. Fragmented tropical forests lose mutualistic plant-animal interactions

Diversity and Distributions 26(2):154-168

DOI: 10.1111/ddi.13010

Marjakangas E, Abrego N, Grøtan V, Lima RAF, Bello C, Bovendorp RS, Culot L, Hasui E, Muylaert RL, Lima F, Niebuhr B, Oliveira AA, Pereira L, Prado I, Stevens RD, **Vancine MH**, Ribeiro MC, Galetti M, Ovaskainen O

9. Predicting the potential hybridization zones between native and invasive marmosets within Neotropical biodiversity hotspots

Global Ecology and Conservation 20:e00706

DOI: 10.1016/j.gecco.2019.e00706

Moraes AM, **Vancine MH**, Moraes AM, Cordeiro CLO, Pinto MP, Lima AA, Culot L, Silva TSF, Collevatti RG, Ribeiro MC, Sobral-Souza T

8. Land-use changes and the expansion of biofuel crops threaten the giant anteater in southeastern Brazil

Journal of Mammalogy 100(2):435–444

DOI: 10.1093/jmammal/gyz042

Bertassoni A, Costa RT, Gouvea JA, Bianchi BC, Ribeiro JW, Vancine MH, Ribeiro MC

Citations

Publons Scopus Google Scholar

7. Spatial prediction of risk areas for vector transmission of Trypanosoma cruzi in the State of Paraná, southern Brazil

PLOS Neglected Tropical Diseases 12(10):e0006907

DOI: 10.1371/journal.pntd.0006907

Ferro e Silva AM, Sobral-Souza T, **Vancine MH**, Muylaert RL, Abreu AP, Pelloso SM, Carvalho

MDB, Andrade L, Ribeiro MC, Toledo MJO

2018 • 6. A note on the territorial limits of the Atlantic Forest

Oecologia Australis 22(3):302-311

DOI: 10.4257/oeco.2018.2203.09

Muylaert RL, **Vancine MH**, Bernardo R, Oshima JEF, Sobral-Souza T, Tonett VR, Niebuhr

BBS, Ribeiro MC

5. ATLANTIC AMPHIBIANS: a data set of amphibian communities from the Atlantic Forests of South America

Ecology 99(7):1692–1692

DOI: 10.1002/ecy.2392

Vancine MH, Duarte KS, Souza YS, Giovanelli JGR, Sobrinho PMM, López A, Bovo RP, Maffei F, Lion MB, Ribeiro-Júnior JW, Brassaloti R, Ortiz C, Sawakuchi HO, Forti LR, Cacciali P,

Bertoluci J, Haddad CFB, Ribeiro MC

4. Efficiency of protected areas in Amazon and Atlantic Forest conservation: A spatio-temporal view

Acta Oecologica 87:1–7

DOI: 10.1016/j.actao.2018.01.001

Sobral-Souza T, **Vancine MH**, Ribeiro MC, Lima-Ribeiro MS

2017 • 3. Forest cover influences occurrence of mammalian carnivores within Brazilian Atlantic Forest

Journal of Mammalogy 98:1721–1731

DOI: 10.1093/jmammal/gyx103

Regolin AL, Cherem JJ, Graipel ME, Bogoni JA, Ribeiro JW, **Vancine MH**, Tortato MA, Oliveira-Santos LG, Fantacini FM, Luiz MR, Castilho PV, Ribeiro MC, Cáceres, NC

20.17 • 2. Impacts of mining activities on the potential geographic distribution of eastern Brazil mountaintop endemic species.

Perspectives in Ecology and Conservation 15(3):172–178

DOI: 10.1016/j.pecon.2017.07.005

De Castro Pena J, Goulart F, Fernandes GW, Hoffmann D, Leite FSF, Santos NB, Soares-Filho

B, Sobral-Souza T, **Vancine MH**, Rodrigues M

2017 • 1. High mammal species turnover in forest patches immersed in biofuel plantations

Biological Conservation 210:352–359

DOI: 10.1016/i.biocon.2017.02.033

Beca G, Vancine MH, Carvalho CS, Pedrosa F, Alves RSC, Buscariol D, Peres CA, Ribeiro MC,

Galetti M