MAURÍCIO VANCINE

Ecologist and Doctoral Student in Ecology, Evolution and Biodiversity

	EDUCATION	CONTACT Some mauriciovancine.github.io
2020 Present	São Paulo State University (UNESP) Doctoral Student in Ecology, Evolution and Biodiversity	■ mauricio.vancine@gmail.com● mauriciovancine● github/mauriciovancine
2016 2018	São Paulo State University (UNESP) Master in Zoology Thesis: Diversity, distribution and effect of climate change on Atlantic Forest amphibian communities (UNESP Libraries) Advisor: Prof. Célio Fernando Baptista Haddad	THEMES Spatial Ecology Andscape Ecology
2011	São Paulo State University (UNESP) Bachelor in Ecology Thesis: Effect of fragmentation on the persistence of anuran amphibians (Amphibia: Anura) within the Atlantic Forest (UNESP Libraries) Advisor: Prof. Milton Cezar Ribeiro	Ecology Modeling Species Distribution Modeling (SDM) Geoprocessing
2020	COMPLEMENTARY EDUCATION Hierarchical Modelling of Species Communities with the R-package Hmsc	Teaching Ecology, Statistics and R
	University of Helsinki (Zoom) • 25 h • course	PROGRAMMING
2020	School on Community Ecology: from patterns to principles São Paulo State University (UNESP)	R tidyverse
2019	Introduction to Hierarchical Modeling Federal University of Rio Grande do Sul (UFRGS) • 45 h • course • Porto Alegre, RS, Brazil	<pre> #Git Python</pre>
2016	Geoprocessing with GRASS GIS São Paulo State University (UNESP) • 24 h Prio Claro, SP, Brazil	>_Bash SOFTWARE
2016	V Southern-Summer School on Mathematical Biology São Paulo State University (UNESP) • 53 h • course • São Paulo, SP, Brazil	Q QGIS ▼ GRASS GIS
2015	Biology and conservation of amphibians and reptiles Instituto Boitatá, IBEC • 44 h	⚠ GNU/Linux CV by pagedown R package. Code available on ♠ GitHub.
2011	Ecological data analysis with R São Paulo State University (UNESP) • 40 h Prio Claro, SP, Brazil	Last updated on 2021-02-15. Download a PDF of this CV Short version of this CV

Short version of this CV

Q SCHOLARSHIP & AWARDS

2020 | 2024 **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 Master Graduate Scholarship

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

Scientific Initiation Scholarship

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

Research Assistant

São Paulo State University (UNESP)
Spatial Ecology and Conservation Lab (LEEC)

IESP) ♀ Rio Claro, SP, Brazil

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

• 2000 h

PROFESSIONAL EXPERIENCE

2020

Environmental consultant

Seleção Natural

🗣 Piracicaba, SP, Brazil

• Ecological corridors

LSCorridors

• Landscape metrics

• LSMetrics

2019 | 2021 **Environmental consultant**

PROECO Ambiental

• Species distribution modeling

Poços de Caldas, MG, Brasil

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

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	Environmental consultant		
2019	Seleção Natural	Piracicaba, SP, Brazil	
2015	Ecological data analyst		
2018	Environmental consultant		
2019	Aquaflora	🗣 Curitiba, PR, Brazil	Between 2018 and 2019, I
2019	Species distribution modeling		composed a group of analysts to assess the impact of the Fundão
2018	Environmental consultant		dam rupture in Marina/MG
2010	Associação de Levantamento Florestal do Amazonas	Manaus, AM, Brazil	(Brazil) on the Rio Doce Basin,
2019	Shiny App		where I compiled land cover information and built models for
2018	Environmental consultant		the distribution of terrestrial and
1	ECOnecta	🗣 Rio Claro, SP, Brazil	aquatic species to several
2019	• SIG specialist • GRASS GIS		scenarios
2015	Environmental consultant		
	Geoinform	♀ Rio Claro, SP, Brazil	
2016	Herpetology field assistant		
•	TEACHING EXPERIENCE		
	TEACHING EXPERIENCE		
•	<u>Courses</u>		
	Total hours:		Since my formation I develop
	Graduate: 240 h Undergraduate: 102 h		teaching activities, initially as a monitor. From the master's
	-		degree, I help and minister
2020	Introduction to geospatial analysis with R Invited teacher	Rio Claro, SP, Brazil	undergraduate and graduate
	Ecology, Biodiversity and Evolution Graduate Program	▼ No Claro, Sr, Brazil	courses, especially those related
	São Paulo State University (UNESP)		to Space Ecology, Species
	• 60 h		Distribution Models, Statistical Models in Ecology and
2020	Statistical Models in Ecology		Geoprocessing.
	Teacher	🗣 Rio Claro, SP, Brazil	
	Ecology Undergraduate		
	São Paulo State University (UNESP) • 30 h		
2019	Introduction to Geoprocessing for Ethnobiology and Conservation	Biodiversity	
	Invited external teacher	Recife, PE, Brazil	
	Ethnobiology and Nature Conservation Graduate Program		
	Rural Federal University of Pernambuco (UFRPE) • 45 h • material		
	45 II IIIdeciidi		
2018	Statistical Models in Ecology		
	Teaching assistant	Rio Claro, SP, Brazil	
	Ecology Undergraduate São Paulo State University (UNESP)		
	• 12 h		
2047	Ecological Nicho Madeline: theory and acception		
2017	Ecological Niche Modeling: theory and practice Teaching assistant	Rio Claro, SP, Brazil	
	Ecology and Biodiversity Graduate Program	, , , , , , , ,	
1	São Paulo State University (UNESP)		
	• 60 h		

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

Introduction to software R 2015

> Short course instructor XXVI Ecology Studies Week São Paulo State University (UNESP)

• 08 h

Organization of data in electronic sheets - Calc 2014

> Short course instructor XXV Ecology Studies Week

São Paulo State University (UNESP)

• 08 h

PUBLICATIONS

2020 13. Host diversity outperforms climate as a global driver of symbiont diversity in the bird-feather mite system

Diversity and Distributions 27(4):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 2020 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

11. Effects of landscape modification on species richness patterns of 2020 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

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

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

2019 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

2019 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

Rio Claro, SP, Brazil

♀ Rio Claro, SP, Brazil

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