MAURÍCIO VANCINE

• 40 h

Ecologist and Doctoral Student in Ecology, Evolution and Biodiversity

		FRUCATION		CONTACT
		EDUCATION		
2020	•	São Paulo State University (UNESP)		■ mauricio.vancine@gmail.com
 Present		Doctoral Student in Ecology, Evolution and Biodiversity Rio Claro, SP, B Thesis: Effect of landscape changes on communities amphibians in the Atlantic Forest	Brazil	y mauriciovancine
		Advisor: Prof. Milton Cezar Ribeiro		github/mauriciovancine
2016	•	São Paulo State University (UNESP)		
 2018		Master in Zoology		THEMES
2010		Thesis : Diversity, distribution and effect of climate change on Atlantic Forest amphibian communities (UNESP Libraries)	Spatial Ecology	
		Advisor: Prof. Célio Fernando Baptista Haddad		♦ Landscape Ecology
2011	•	São Paulo State University (UNESP)		Lill Ecology Modeling
 2015		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	Brazil	Species Distribution
				Modeling (SDM)
				№ Geoprocessing
			Teaching Ecology,	
		COMPLEMENTARY EDUCATION		Statistics and R
2020	•	Hierarchical Modelling of Species Communities with the R-package Hmsc		
		University of Helsinki ◆ Helsinki, Finland (Zo • 25 h	oom)	PROGRAMMING
2020		School on Community Ecology: from patterns to principles São Paulo State University (UNESP)		₽ R
			tidyverse	
				M+ markdown
2019	•	Introduction to Hierarchical Modeling Federal University of Rio Grande do Sul (UFRGS) ◆ 45 h		P Git
20.5			Brazil	? Python
			>_ Bash	
2016		Geoprocessing with GRASS GIS	\:I	
		São Paulo State University (UNESP)	Brazil	SOFTWARE
2016		W. Grandham Garage and Gabarata and Madda and		Q QGIS
2016		V Southern-Summer School on Mathematical Biology São Paulo State University (UNESP) ♀ São Paulo, SP, B	Brazil	≱ GRASS GIS
		• 53 h		∆ GNU/Linux
2015	•	Biology and conservation of amphibians and reptiles Instituto Boitatá, IBEC • 44 h		g one, mindx
				CV by pagedown R package. Code available on G GitHub.
2011		Ecological data analysis with R	\:I	Last updated on 2020-12-28.
	1	São Paulo State University (UNESP)	srazil	Download a DDE of this CV

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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

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 | 2016

Research Assistant

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

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

• Landscape metrics

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 2019		Environmental consultant Seleção Natural • Ecological data analyst	♥ Piracicaba, SP, Brazil		
2018 2019	•	Environmental consultant Aquaflora • Species distribution modeling	♥ Curitiba, PR, Brazil		
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 in Ecology, Biodiversity and Evolution Graduate Program São Paulo State University (UNESP)			
		• 60 h	♥ Rio Claro, SP, Brazil		
2020		Statistical Models in Ecology Teacher in Ecology Undergraduate São Paulo State University (UNESP) • 30 h	♥ Rio Claro, SP, Brazil		
2019	•	Introduction to Geoprocessing for Ethnobiology and Biodiversity Conservation			
		Invited external teacher in Ethnobiology and Nature Conservati Rural Federal University of Pernambuco (UFRPE)			
		• 45 h	♥ Recife, PE, Brazil		
2018		Statistical Models in Ecology Teaching assistant in Ecology Undergraduate São Paulo State University (UNESP) • 12 h	♥ Rio Claro, SP, Brazil		
2017		Ecological Niche Modeling: theory and practice Teaching assistant in Ecology and Biodiversity Graduate Program São Paulo State University (UNESP) • 60 h	m ♀ 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 in Ecology Graduate Program The University of Campinas (UNICAMP) • 45 h Ecological Niche Modeling in R 2016 Teaching assistant in Ecology and Biodiversity Graduate Program ♥ Rio Claro, SP, Brazil São Paulo State University (UNESP) • 30 h 2015 **Quantitative Ecology** Rio Claro, SP, Brazil Teaching assistant in Ecology Undergraduate São Paulo State University (UNESP) • 60 h Short courses Total hours: 78 h 2019 Introduction to R Language Rio Claro, SP, Brazil Short course instructor XXX Ecology Studies Week, São Paulo State University (UNESP) material Introduction to R Language 2019 **♀** Rio Claro, SP, Brazil Short course instructor 30^a Biology Studies Week, São Paulo State University (UNESP) • 08 h • material Introduction to Species Distribution Modeling using R Language: theory 2019 and practice Short course instructor **Q** Campinas, SP, Brazil 9° Brazilian Congress of Herpetology material Field work with amphibians 2018 **♀** Rio Claro, SP, Brazil Short course instructor 29^a Biology Studies Week, São Paulo State University (UNESP) • 08 h Field herpetology 2016 Rio Claro, SP, Brazil Short course instructor XXVII Ecology Studies Week, São Paulo State University (UNESP) • 15 h 2016 Introduction to software R: data management, graphs and statistical analvsis Short course instructor Rio Claro, SP, Brazil XXVII Ecology Studies Week, São Paulo State University (UNESP) Introduction to software R 2015 Rio Claro, SP, Brazil Short course instructor XXVI Ecology Studies Week, São Paulo State University (UNESP) • 08 h

Since 2014, I teach practical training courses, mainly related to the R language and Species Distribution Models

2014 • Organization of data in electronic sheets - Calc

Short course instructor

🗣 Rio Claro, SP, Brazil

XXV Ecology Studies Week, São Paulo State University (UNESP)

• 08 h

2020

2019

PUBLICATIONS

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

Diversity and Distributions
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

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

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

CitationsPublons
Scopus
Google Scholar

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

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

Journal of Mammaloay 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

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/j.biocon.2017.02.033

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

Galetti M

2017