




MAURÍCIO VANCINE

Spatial Ecologist and Doctoral Student in Ecology, Evolution and Biodiversity

I am a Spatial Ecologist and Doctoral Student at the Department of Biodiversity of the São Paulo State University, Rio Claro/SP, Brazil. I have experience in landscape ecology, effects of habitat loss and fragmentation, amphibian ecology, species distribution modeling (SDM), analysis of ecological and spatial data.









EDUCATION

- 2020
|
Present
- **São Paulo State University (UNESP)**
[Doctoral Student in Ecology, Evolution and Biodiversity](#)  Rio Claro, SP, Brazil
Thesis: Effect of landscape changes on communities amphibians in the Atlantic Forest
Advisor: Prof. Milton Cezar Ribeiro
- 2016
|
2018
- **São Paulo State University (UNESP)**
[Master in Zoology](#)  Rio Claro, SP, Brazil
Thesis: Diversity, distribution and effect of climate change on Atlantic Forest amphibian communities ([UNESP Libraries](#))
Advisor: Prof. Célio Fernando Baptista Haddad
- 2011
|
2014
- **São Paulo State University (UNESP)**
[Bachelor in Ecology](#)  Rio Claro, SP, Brazil
Thesis: Effect of fragmentation on the persistence of anuran amphibians (Amphibia: Anura) within the Atlantic Forest ([UNESP Libraries](#))
Advisor: Prof. Milton Cezar Ribeiro







COMPLEMENTARY EDUCATION

- 2020
- **Hierarchical Modelling of Species Communities with the R-package Hmsc**
University of Helsinki (Zoom)  Helsinki, Finland
• 25 h [course](#)
- 2020
- **School on Community Ecology: from patterns to principles**
São Paulo State University (UNESP)  São Paulo, SP, Brazil
• 60 h [course](#)
- 2019
- **Introduction to Hierarchical Modeling**
Federal University of Rio Grande do Sul (UFRGS)  Porto Alegre, RS, Brazil
• 45 h [course](#)
- 2016
- **Geoprocessing with GRASS GIS**
São Paulo State University (UNESP)  Rio Claro, SP, Brazil
• 24 h
- 2016
- **V Southern-Summer School on Mathematical Biology**
São Paulo State University (UNESP)  São Paulo, SP, Brazil
• 53 h [course](#)
- 2015
- **Biology and conservation of amphibians and reptiles**
Instituto Boitatá, IBEC  Alfenas, MG, Brazil
• 44 h

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
CONTACT

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-  mauricio.vancine@gmail.com
-  [mauriciovancine](https://twitter.com/mauriciovancine)
-  [github/mauriciovancine](https://github.com/mauriciovancine)

THEMES

-  Spatial Ecology
-  Landscape Ecology
-  Ecology Modeling
-  Species Distribution Modeling (SDM)
-  Geoprocessing
-  Amphibian Ecology

SKILLS

-  [R](#)
-  [tidyverse](#)
-  [markdown](#)
-  [git \(básico\)](#)
-  [python \(básico\)](#)
-  [bash \(básico\)](#)
-  [QGIS](#)
-  [GRASS GIS](#)
-  [GNU/Linux](#)


LANGUAGES


- Portuguese (Native speaker)
- English (A2)
- Spanish (A1)


CV by [pagedown](#) R package.
Code available on  [GitHub](#).
Last updated on 2021-04-20.

2011 ● **Ecological data analysis with R**
São Paulo State University (UNESP)  Rio Claro, SP, Brazil
• 40 h


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**
São Paulo Research Foundation (FAPESP) (BRL 16,248.54)  Rio Claro, SP, Brazil
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 | 2021 ● **Environmental consultant**
[Seleção Natural](#)  Piracicaba, SP, Brazil
• Ecological corridors • LSCorridors
• Landscape metrics • LSMetrics

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

2019 2021	<ul style="list-style-type: none"> ● Environmental consultant PROECO Ambiental • Species distribution modeling 	<ul style="list-style-type: none"> 📍 Poços de Caldas, MG, Brazil
2018 2019	<ul style="list-style-type: none"> ● Environmental consultant Seleção Natural • Ecological data analyst 	<ul style="list-style-type: none"> 📍 Piracicaba, SP, Brazil
2018 2019	<ul style="list-style-type: none"> ● Environmental consultant Aquaflora • Species distribution modeling 	<ul style="list-style-type: none"> 📍 Curitiba, PR, Brazil
2018 2019	<ul style="list-style-type: none"> ● Environmental consultant Associação de Levantamento Florestal do Amazonas • Shiny App 	<ul style="list-style-type: none"> 📍 Manaus, AM, Brazil
2018 2019	<ul style="list-style-type: none"> ● Environmental consultant ECONecta • SIG specialist 	<ul style="list-style-type: none"> 📍 Rio Claro, SP, Brazil
	<ul style="list-style-type: none"> • GRASS GIS 	
2015 2016	<ul style="list-style-type: none"> ● Environmental consultant Geoinform • Herpetology field assistant 	<ul style="list-style-type: none"> 📍 Rio Claro, SP, Brazil



TEACHING EXPERIENCE

	<ul style="list-style-type: none"> ● Courses Total hours: Graduate: 240 h Undergraduate: 102 h 	
2020	<ul style="list-style-type: none"> ● Introduction to geospatial analysis with R Invited teacher Ecology, Biodiversity and Evolution Graduate Program São Paulo State University (UNESP) • 60 h • material 	<ul style="list-style-type: none"> 📍 Rio Claro, SP, Brazil
2020	<ul style="list-style-type: none"> ● Statistical Models in Ecology Teacher Ecology Undergraduate São Paulo State University (UNESP) • 30 h 	<ul style="list-style-type: none"> 📍 Rio Claro, SP, Brazil
2019	<ul style="list-style-type: none"> ● Introduction to Geoprocessing for Ethnobiology and Biodiversity Conservation Invited external teacher Ethnobiology and Nature Conservation Graduate Program Rural Federal University of Pernambuco (UFRPE) • 45 h • material 	<ul style="list-style-type: none"> 📍 Recife, PE, Brazil
2018	<ul style="list-style-type: none"> ● Statistical Models in Ecology Teaching assistant Ecology Undergraduate São Paulo State University (UNESP) • 12 h 	<ul style="list-style-type: none"> 📍 Rio Claro, SP, Brazil

Between 2018 and 2019, I composed a group of analysts to assess the impact of the Fundão dam rupture in Mariana/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.

2017	<ul style="list-style-type: none"> ● Ecological Niche Modeling: theory and practice Teaching assistant Ecology and Biodiversity Graduate Program São Paulo State University (UNESP) • 60 h 	📍 Rio Claro, SP, Brazil
2016	<ul style="list-style-type: none"> ● Ecological Niche Modeling: theory and practice Teaching assistant Ecology Graduate Program The University of Campinas (UNICAMP) • 45 h 	📍 Campinas, SP, Brazil
2016	<ul style="list-style-type: none"> ● Ecological Niche Modeling in R Teaching assistant Ecology and Biodiversity Graduate Program São Paulo State University (UNESP) • 30 h 	📍 Rio Claro, SP, Brazil
2015	<ul style="list-style-type: none"> ● Quantitative Ecology Teaching assistant Ecology Undergraduate São Paulo State University (UNESP) • 60 h 	📍 Rio Claro, SP, Brazil
	<ul style="list-style-type: none"> ● Short courses Total hours: 78 h 	
2019	<ul style="list-style-type: none"> ● Introduction to R Language Short course instructor XXX Ecology Studies Week São Paulo State University (UNESP) • 08 h 	📍 Rio Claro, SP, Brazil
	• material	
2019	<ul style="list-style-type: none"> ● Introduction to R Language Short course instructor 30ª Biology Studies Week São Paulo State University (UNESP) • 08 h 	📍 Rio Claro, SP, Brazil
	• material	
2019	<ul style="list-style-type: none"> ● Introduction to Species Distribution Modeling using R Language: theory and practice Short course instructor 9º Brazilian Congress of Herpetology The University of Campinas (UNICAMP) • 07 h 	📍 Campinas, SP, Brazil
	• material	
2018	<ul style="list-style-type: none"> ● Field work with amphibians Short course instructor 29ª Biology Studies Week São Paulo State University (UNESP) • 08 h 	📍 Rio Claro, SP, Brazil
2016	<ul style="list-style-type: none"> ● Field herpetology Short course instructor XXVII Ecology Studies Week São Paulo State University (UNESP) • 15 h 	📍 Rio Claro, SP, Brazil

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

- 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 📍 Rio Claro, SP, Brazil
[XXVI Ecology Studies Week](#)
São Paulo State University (UNESP)
• 08 h
- 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



PUBLICATIONS

- 2021 ● **15. Distribution of macroalgal epiphytes and host species from the Cuban marine shelf inferred from ecological modelling**
Aquatic Botany 123:1-16
DOI: *in press* Da Silveira NS, **Vancine MH**, Jahn AE, Pizo MA, Sobral-Souza T Capote AJ, Cabrera A, Ramos A, **Vancine MH**, Suarez AM, Machell J, Perez-Llorens JL
- 2021 ● **14. Future impacts of climate change on migratory bird flyways in South America**
The Condor: Ornithological Applications 123:1-16
DOI: <https://doi.org/10.1093/ornithapp/duab006> Da Silveira NS, **Vancine MH**, Jahn AE, Pizo MA, Sobral-Souza T
- 2021 ● **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](https://doi.org/10.1111/ddi.13201)
Gusmão RAF, Hernandez FRA, **Vancine MH**, Naka LN, Doña J, Gonçalves-Souza T
- 2021 ● **12. Environmental niche and functional role similarity between invasive and native palms in the Atlantic Forest**
Biological Invasions 21:741-754
DOI: [10.1007/s10530-020-02400-8](https://doi.org/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](https://doi.org/10.1111/ddi.13007)
Santos JP, Sobral-Souza T, Brown Jr KS, **Vancine MH**, Ribeiro MC, Freitas AVL

Citations

[Publons](#)
[Scopus](#)
[Google Scholar](#)

- 2020 ● **10. Fragmented tropical forests lose mutualistic plant-animal interactions**
Diversity and Distributions 26(2):154-168
DOI: [10.1111/ddi.13010](https://doi.org/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](https://doi.org/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](https://doi.org/10.1093/jmammal/gyz042)
Bertassoni A, Costa RT, Gouvea JA, Bianchi BC, Ribeiro JW, **Vancine MH**, Ribeiro MC
- 2018 ● **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](https://doi.org/10.1371/journal.pntd.0006907)
Ferreira e Silva AM, Sobral-Souza T, **Vancine MH**, Muylaert RL, Abreu AP, Peloso 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](https://doi.org/10.4257/oeco.2018.2203.09)
Muylaert RL, **Vancine MH**, Bernardo R, Oshima JEF, Sobral-Souza T, Tonetti VR, Niebuhr BBS, Ribeiro MC
- 2018 ● **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](https://doi.org/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
- 2018 ● **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](https://doi.org/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](https://doi.org/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

2017

● **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](https://doi.org/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](https://doi.org/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