

# MAURÍCIO VANCINE

Spatial Ecology and Quantitative Ecology

## EDUCATION

- 2020  
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Present
- **São Paulo State University (UNESP)**  
PhD Student in Ecology 📍 Rio Claro, SP, Brazil  
**Thesis:** Diversity patterns in amphibian metacommunities in the Atlantic Forest  
**Advisor:** Prof. Tadeu de Siqueira Barros
- 2016  
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2018
- **São Paulo State University (UNESP)**  
M.S. 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  
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2015
- **São Paulo State University (UNESP)**  
B.S. 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
- **School on Community Ecology: from patterns to principles**  
São Paulo State University (UNESP) 📍 São Paulo, SP, Brazil  
• 60 h
- 2019
- **Introduction to Hierarchical Modeling**  
Federal University of Rio Grande do Sul (UFRGS) 📍 Porto Alegre, RS, Brazil  
• 45 h
- 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
- 2015
- **Biology and conservation of amphibians and reptiles**  
Instituto Boitatá, IBEC 📍 Alfenas, MG, Brazil  
• 44 h
- 2011
- **Ecological data analysis with R**  
São Paulo State University (UNESP) 📍 Rio Claro, SP, Brazil  
• 40 h

## SCHOLARSHIP & AWARDS



PhD student specializing in spatial ecology, quantitative ecology, and ecological data analysis

## CONTACT INFO

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📞 +55-19-993-340-549

## LINKS

🌐 [mauriciovancine.netlify.com](https://mauriciovancine.netlify.com)

🐙 [mauriciovancine](#)

🐦 [mauriciovancine](#)

📞 [9761288418931193](tel:9761288418931193)

🏷 [Maurício Vancine](#)

ℹ [Mauricio\\_Vancine2](#)

🆔 [0000-0001-9650-7575](#)

📄 [Maurício Vancine](#)

## SKILLS

Landscape Ecology  
Species Distribution Modeling  
Ecological Data Analysis  
Geospatial Data Analysis  
Geoprocessing  
Teaching R, QGIS and GRASS GIS  
**Programming:** R, "Markdown", Python, Bash, and JavaScript  
**Softwares:** GRASS GIS, QGIS, and LINUX/UNIX

2017  
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2018

### Master Graduate Scholarship

São Paulo Research Foundation (FAPESP) (BRL 16,248.54)

São Paulo State University (UNESP)

Grant [#2017/09676-8](#)

📍 Rio Claro, SP, Brazil

**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)

São Paulo State University (UNESP)

Grant [#2013/02883-7](#)

📍 Rio Claro, SP, Brazil

**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  
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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



## PROFESSIONAL EXPERIENCE

2019  
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2021

### Environmental consultant

[PROECO Ambiental](#)

📍 Poços de Caldas, MG, Brasil

• Species distribution modeling

2018  
|  
2019

### Environmental consultant

[Seleção Natural](#)

📍 Piracicaba, SP, Brazil

• Ecological data analyst

2018  
|  
2019

### Environmental consultant

[Aquaflora](#)

📍 Curitiba, PR, Brazil

• Species distribution modeling

2018  
|  
2019

### Environmental consultant

Associação de Levantamento Florestal do Amazonas

📍 Manaus, AM, Brazil

• Shiny App

- 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

- 2019 • **Introduction to Geoprocessing for Ethnobiology and Biodiversity Conservation**  
Invited external teacher in Ethnobiology and Nature Conservation Graduate Program  
Rural Federal University of Pernambuco (UFRPE) • Recife, PE, Brazil  
• 45 h
- 2018 • **Statistical Models in Ecology**  
Teaching assistant in Ecology Undergraduate  
São Paulo State University (UNESP) • Rio Claro, SP, Brazil  
• 12 h
- 2017 • **Ecological Niche Modeling: theory and practice**  
Teaching assistant in Ecology and Biodiversity Graduate Program  
São Paulo State University (UNESP) • Rio Claro, SP, Brazil  
• 60 h
- 2016 • **Ecological Niche Modeling: theory and practice**  
Teaching assistant in Ecology Graduate Program  
The University of Campinas (UNICAMP) • Campinas, SP, Brazil  
• 45 h
- 2016 • **Ecological Niche Modeling in R**  
Teaching assistant in Ecology and Biodiversity Graduate Program  
São Paulo State University (UNESP) • Rio Claro, SP, Brazil  
• 30 h
- 2015 • **Quantitative Ecology**  
Teaching assistant in Ecology Undergraduate  
São Paulo State University (UNESP) • Rio Claro, SP, Brazil  
• 60 h

### Short courses

- 2019 • **Introduction to R Language**  
Short course instructor  
[XXX Ecology Studies Week](#), São Paulo State University (UNESP) • Rio Claro, SP, Brazil  
• 08 h

- 2019 ● **Introduction to R Language**  
Short course instructor  
[30ª Biology Studies Week](#), São Paulo State University (UNESP)  
Rio Claro, SP, Brazil  
• 08 h
- 2019 ● **Introduction to Species Distribution Modeling using R Language: theory and practice**  
Short course instructor  
[9º Brazilian Congress of Herpetology](#)  
Campinas, SP, Brazil  
• 07 h
- 2018 ● **Field work with amphibians**  
Short course instructor  
[29ª Biology Studies Week](#), São Paulo State University (UNESP)  
Rio Claro, SP, Brazil  
• 08 h
- 2016 ● **Field herpetology**  
Short course instructor  
[XXVII Ecology Studies Week](#), São Paulo State University (UNESP)  
Rio Claro, SP, Brazil  
• 15 h
- 2016 ● **Introduction to software R: data management, graphs and statistical analysis**  
Short course instructor  
[XXVII Ecology Studies Week](#), São Paulo State University (UNESP)  
Rio Claro, SP, Brazil  
• 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)  
Rio Claro, SP, Brazil  
• 08 h



## PUBLICATIONS

- 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

- 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)  
 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](https://doi.org/10.4257/oeco.2018.2203.09)  
 Muylaert RL, **Vancine MH**, Bernardo R, Oshima JEF, Sobral-Souza T, Tonett 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