MAURÍCIO VANCINE

Spatial Ecology and Quantitative Ecology

🎓 EDUCATION

2020
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Present

São Paulo State University (UNESP)
PhD Student in Zoology   📍 Rio Claro, SP, Brazil
Thesis: Landscape changes and communities assembly in the Atlantic Forest
Advisor: Prof. Milton Cezar Ribeiro

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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LINKS

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P Maurício Vancine

SKILLS

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

2017 | 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 | 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 | 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
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2019

Environmental consultant
ECOnecta
              📍 Rio Claro, SP, Brazil
• SIG specialist   • GRASS GIS

2015
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2016

Environmental consultant
Geoinform
              📍 Rio Claro, SP, Brazil
• Herpetology field assistent

🖥️ 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   📍 Rio Claro, SP, Brazil
São Paulo State University (UNESP)
• 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   📍 Campinas, SP, Brazil
The University of Campinas (UNICAMP)
• 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   📍 Rio Claro, SP, Brazil
São Paulo State University (UNESP)
• 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   📍 Campinas, SP, Brazil
9º Brazilian Congress of Herpetology
• 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
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

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

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
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

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
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
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

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
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