MAURÍCIO H. VANCINE

Ecologist

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CAREER SUMMARY

I am an Ecologist (2014), Master in Zoology (2018) and PhD in Ecology (2024) at the Department of Biodiversity, all from Universidade Estadual Paulista, Rio Claro/SP, Brazil. I performed more than 660 hours of complementary education in Brazilian and international institutions focused on statistical and ecological modeling.

My expertise encompasses spatial ecology, landscape ecology, ecological modeling, species distribution modeling (SDM), ecological and spatial data analysis, impacts of habitat loss and fragmentation on biodiversity, amphibian ecology, as well as proficiency in the R programming language.

Since 2017, I have authored over 30 articles published in distinguished Ecology journals. These publications primarily showcase the outcomes of my research on the effects of landscape structure and climate change on biodiversity in South America, with a focus on the Atlantic Forest hotspot.

I am currently actively engaged in the development of tools to calculate landscape metrics for large spatial extents using the R language and GRASS GIS. In addition, I dedicated more than 500 hours to teaching and promoting the use of the R language through workshops, undergraduate and graduate courses and the publication of the book 'Análises Ecológicas no R' in portuguese.

ACADEMIC EXPERTISE

Spatial ecology, landscape ecology, ecological modeling, species sistribution modeling (SDM), geoprocessing, amphibians, conservation, teaching, R language

RESEARCH INTERESTS

Habitat loss and fragmentation, landscape metrics, species distribution modeling (SDM), community ecology, amphibian ecology, conservation biology

EDUCATION

São Paulo State University (UNESP)

Mar 2020 - Jul 2024

Ph.D., Graduate Program in Ecology, Evolution and Biodiversity

GPA: 4.00

Thesis: Landscape structure as a predictor of taxonomic and functional diversity of amphibians in the Atlantic Forest

Advisor: Prof. Dr. Milton Cezar Ribeiro

São Paulo State University (UNESP)

Mar 2016 - Jul 2018

M.S., Graduate Program in Biological Science (Zoology)

GPA: 4.00

Thesis: Diversity, distribution and effect of climate change on Atlantic Forest amphibian communities link

Advisor: Prof. Dr. Célio Fernando Baptista Haddad

São Paulo State University (UNESP)

Mar 2011 - Mar 2015

B.S. in Ecology

GPA: 3.43

Thesis: Effect of fragmentation on the persistence of anuran amphibians (Amphibia: Anura) within the Atlantic Forest link

Advisor: Prof. Dr. Milton Cezar Ribeiro

COMPLEMENTARY EDUCATION

• Joint Species Distribution Modelling with HMSC (45 h) 2022 University of Jyväskylä (Online), Jyväskylä, Finlândia, link • Data Science Journey (330 h) 2022 Omega Data Science (Online), Curitiba, Paraná, link • Hierarchical Modelling of Species Communities with the R-package Hmsc (25 h) 2020 University of Helsinki (Online), Helsinki, Finland, link • School on Community Ecology: from patterns to principles (60 h) 2020 São Paulo State University (UNESP), São Paulo, SP, Brazil, link • Introduction to Hierarchical Modeling (45 h) 2019 Federal University of Rio Grande do Sul (UFRGS), Porto Alegre, RS, Brazil, link • Geoprocessing with GRASS GIS (24 h) 2016 São Paulo State University (UNESP), Rio Claro, SP, Brazil • V Southern-Summer School on Mathematical Biology (53 h) 2016 São Paulo State University (UNESP), São Paulo, SP, Brazil, link • Biology and conservation of amphibians and reptiles (44 h) 2015 Instituto Boitatá, IBEC, Alfenas, MG, Brazil, link • Ecological data analysis with R (40 h) 2011 São Paulo State University (UNESP), Rio Claro, SP, Brazil

PROFESSIONAL EXPERIENCE

• Research assistant (2000 h)

2015-2016

Statistical and spatial analyzes of mammal and ants biodiversity in the Atlantic Forest Biome Institution: São Paulo State University (UNESP), Spatial Ecology and Conservation Lab (LEEC) Supervisor: Prof. Milton Cezar Ribeiro

• Intern (300 h)

Compulsory curricular internship focused in Species Distribution Modeling (SDM)

Institution: Luiz de Queiroz College of Agriculture, University of São Paulo (USP), Ecology, Management and Conservation of Wild Fauna Lab (LEMaC)

Supervisor: Prof. Katia Maria Paschoaletto Micchi de Barros Ferraz

RESEARCH EXPERIENCE

• Doctoral research

2020-2024

Title: Landscape structure as a predictor of taxonomic and functional diversity of amphibians in the Atlantic Forest

Aim: to analyze the structure of landscapes throughout the Atlantic Forest; to analyze how landscape structure affects the taxonomic and functional diversity of amphibian communities; and to analyze this same question of species-specific mode, in addition to analyzing co-occurrences using JSDMs.

• Master research 2016-2018

Title: Effect of Landscape Modifications and Climate Changes on the Persistence of Amphibians in the Atlantic Forest

Aim: to present an assessment of the surveys of the amphibian communities for the Atlantic Forest; to investigate how habitat loss and fragmentation affect the persistence of amphibians; and to investigate how climate change affect the future persistence of the genus *Brachycephalus*.

• Undergraduate research

2013-2015

Title: Effect of fragmentation on the persistence of anuran amphibians (Amphibia: Anura) within the Atlantic Forest

Aim: evaluate the relative contribution of landscape indices (percentage of forest cover, connectivity, relief and urban proximity) to the persistence of species using species distribution modeling.

FUNDING

• Doctoral Graduate Scholarship, São Paulo Research Foundation (FAPESP) 2022-2024

Grant: $\frac{2022/01899-6}{\text{BRL } 91,002.24}$

• Master Graduate Scholarship, São Paulo Research Foundation (FAPESP) 2017-2018

Grant: $\underline{2017/09676-8}$ Value: $\underline{BRL} \ 16,248.54$

• Undergraduate Research Scholarship, São Paulo Research Foundation (FAPESP) 2013-2015

Grant: $\frac{2013/02883-7}{\text{Value: BRL } 10,539.87}$

AWARDS AND HONORS

• High Academic Performance Award, São Paulo State University (UNESP) 2015

• The Harry R. Painton Award, American Ornithological Society

2023

PUBLICATIONS

Peer-reviewed (most relevant)

- 1. Vancine MH, Muylaert RL, Niebuhr BB, Oshima JEF, Tonetti V, Bernardo R, De Angelo C, Rosa MR, Grohmann CH, Ribeiro MC. The Atlantic Forest of South America: spatiotemporal dynamics of remaining vegetation and implications for conservation. *Biological Conservation* 291:110499. 10.1016/j.biocon.2024.110499
- 2. Beca G, Vancine MH, Carvalho CS, Pedrosa F, Alves RSC, Buscariol D, Peres CA, Ribeiro MC, Galetti M. 2017. High mammal species turnover in forest patches immersed in biofuel plantations. *Biological Conservation* 210:352-359. 10.1016/j.biocon.2017.02.033
- 3. 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. 2020. Fragmented tropical forests lose mutualistic plant-animal interactions. *Diversity and Distributions* 26(2):154-168. 10.1111/ddi.13010

Peer-reviewed (July 6, 2024)

- 1. Beca G, Vancine MH, Carvalho CS, Pedrosa F, Alves RSC, Buscariol D, Peres CA, Ribeiro MC, Galetti M. 2017. High mammal species turnover in forest patches immersed in biofuel plantations. *Biological Conservation* 210:352-359. 10.1016/j.biocon.2017.02.033
- 2. de Castro Pena JC, Goulart F, Fernandes GW, Hoffmann D, Leite FS, dos Santos NB, Soares-Filho B, Sobral-Souza T, Vancine MH, Rodrigues M. 2017. Impacts of mining activities on the potential geographic distribution of eastern Brazil mountaintop endemic species. Perspectives in Ecology and Conservation 15(3):172-178. 10.1016/j.pecon.2017.07.005
- 3. Regolin AL, Cherem JJ, Graipel ME, Bogoni JA, Ribeiro JW, Vancine MH, Castilho PVD. 2017. Forest cover influences occurrence of mammalian carnivores within Brazilian Atlantic Forest. *Journal of Mammalogy* 98(6):1721-1731. 10.1093/jmammal/gyx103

- 4. Sobral-Souza T, Vancine MH, Ribeiro MC, Lima-Ribeiro MS. 2018. Efficiency of protected areas in Amazon and Atlantic Forest conservation: A spatio-temporal view. *Acta Ecologica* 87:1-7. 10.1016/j.actao.2018.01.001
- 5. Muylaert RL, Vancine MH, Bernardo R, Oshima JEF, Sobral-Souza T, Tonetti VR, Ribeiro MC. 2018. Uma nota sobre os limites territoriais da Mata Atlântica. Oecologia Australis 22(3):302-311. 10.4257/oeco.2018.2203.09
- 6. 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. ATLANTIC AMPHIBIANS: a data set of amphibian communities from the Atlantic Forests of South America. Ecology 99(7):1692-1692. 10.1002/ecy.2392
- Ferro e Silva AM, Sobral-Souza T, Vancine MH, Muylaert RL, Abreu AP, Pelloso SM, Carvalho MDB, Andrade L, Ribeiro MC, Toledo MJ. 2018. 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. 10.1371/journal.pntd.0006907
- 8. Bertassoni A, Costa RT, Gouvea JA, Bianchi RDC, Ribeiro JW, Vancine MH, Ribeiro MC. (2019). Land-use changes and the expansion of biofuel crops threaten the giant anteater in southeastern Brazil. *Journal of Mammalogy* 100(2):435-444. 10.1093/jmammal/gyz042
- 9. Moraes AM, Vancine MH, Moraes AM, Oliveira Cordeiro CL, Pinto MP, Lima AA, Sobral-Souza T. 2019. Predicting the potential hybridization zones between native and invasive marmosets within Neotropical biodiversity hotspots. Global Ecology and Conservation 20:e00706.06. 10.1016/j.gecco.2019.e00706
- 10. Santos JP, Sobral-Souza T, Brown Jr KS, Vancine MH, Ribeiro MC, Freitas AV. 2020. Effects of landscape modification on species richness patterns of fruit-feeding butterflies in Brazilian Atlantic Forest. Diversity and Distributions 26(2):196-208. 10.1111/ddi.13007
- 11. 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. 2020. Fragmented tropical forests lose mutualistic plant-animal interactions. *Diversity and Distributions* 26(2):154-168. 10.1111/ddi.13010
- 12. Bello C, Cintra ALP, Barreto E, Vancine MH, Sobral-Souza T, Graham CH, Galetti M. 2021. Environmental niche and functional role siimlarity between invasive and native palms in the Atlantic Forest. *Biological Invasions* 23(3):741-754. 10.1007/s10530-020-02400-8
- 13. Gusmão RA, Hernandes FA, Vancine MH, Naka LN, Doña J, Gonçalves-Souza T. 2021. Host diversity outperforms climate as a global driver of symbiont diversity in the bird-feather mite system. *Diversity and Distributions* 27(3):416-426. 10.1111/ddi.13201
- 14. Da Silveira NS, Vancine MH, Jahn AE, Pizo MA, Sobral-Souza T. 2021. Future climate change will impact the size and location of breeding and wintering areas of migratory thrushes in South America. *The Condor* 123(2):duab006. 10.1093/ornithapp/duab006
- 15. Jover A, Cabrera A, Ramos A, Vancine MH, Suárez AM, Machell J, Pérez-Lloréns JL. 2021. Distribution of macroalgae epiphytes and host species from the Cuban marine shelf inferred from ecological modelling. *Aquatic Botany* 172:103395. 10.1016/j.aquabot.2021.103395
- Bercê W, Bello C, Mendes CP, Vancine MH, Galetti M, Ballari SA. 2021. Invasive wild boar's distribution overlap with threatened native ungulate in Patagonia. *Journal of Mammalogy* 102(5):1298-1308. 10.1093/jmammal/gyab099
- 17. Oshima JEF, Jorge MLS, Sobral-Souza T, Börger L, Keuroghlian A, Peres CA, Vancine MH,

- Colleni B, Ribeiro MC. 2021. Setting priority conservation management regions to reverse rapid range decline of a key neotropical forest ungulate. Global Ecology and Conservation 31:e01796. 10.1016/j.gecco.2021.e01796
- 18. Monteiro ECS, Pizo MA, Vancine MH, Ribeiro MC. 2022. Forest cover and connectivity have pervasive effects on the maintenance of evolutionary distinct interactions in seed dispersal networks. *Oikos* 2022(2):oik.08240. 10.1111/oik.08240
- 19. Ribeiro-Souza P, Graipel ME, Astúa D, Vancine MH, Pires JSR. 2022. Effects of climate change on distribution and areas that protect two neotropical marsupials associated with aquatic environments. *Ecological Informatics* 68:101570. 10.1016/j.ecoinf.2022.101570
- 20. Costa MF, Francisconi AF, Vancine MH, Zucchi MI. 2022. Climate change impacts on the *Copernicia alba* and *Copernicia prunifera* (Arecaceae) distribution in South America. *Brazilian Journal of Botany* 45:807-818. 10.1007/s40415-022-00801-8
- 21. Muylaert RL, Kingston T, Luo J, Vancine MH, Galli N, Carlson CJ, John RS, Rulli MC, Hayman DT. 2022. Present and future distribution of bat hosts of sarbecoviruses: implications for conservation and public health. *Proceedings of the Royal Society B* 289(1975):20220397. 10.1098/rspb.2022.0397
- 22. Borges GA, Mancilla G, Siqueira AB, Vancine MH, Ribeiro MC, Maia JCS. 2022. The fate of vegetation remnants in the southern Amazon's largest threatened hotspot: part (I) a 33-year analysis of LULCC in the Tapajos River basin, Brazil. Research, Society and Development 11(10):e448111032553. 10.33448/rsd-v11i10.32553
- 23. Galetti M, Carmignotto AP, Percequillo AR, Santos MCO, Ferraz KMPMB, Lima F, Vancine MH, Muylaert RL, Bonfim FCG, Magioli M, Abra FD, Chiarello AG, Duarte JMB, Morato R, de Mello Beisiegel B, Olmos F, Galetti Jr. PM, Ribeiro MC. 2022. Mammals in São Paulo State: diversity, distribution, ecology, and conservation. *Biota Neotropica* 22(spe):e20221363. 10.1590/1676-0611-bn-2022-1363
- 24. Santos PM, Ferraz KMPMB, Ribeiro MC, Niebuhr BB, Vancine MH, Chiarello AC, Paglia AP. 2022. Natural forest regeneration on anthropized landscapes could overcome climate change effects on the endangered maned sloth (*Bradypus torquatus*, Illiger 1811). *Journal of Mammology* 103(6):1383-1396. 10.1093/jmammal/gyac084
- 25. Dutra VAB, Vancine MH, Lima AAM, Toledo PM. 2023. Dinâmica da paisagem e fragmentação de ecossistemas em três bacias hidrográficas na Amazônia Oriental entre 1985 e 2019. Revista Brasileira de Geografia Física 16(02):936-949. 10.26848/rbgf.v16.2.p936-949
- 26. Amaral IS, Pereira JB, Vancine MH, Morales AE, Althoff SL, Gregorin R, Pereira MJR, Valiali VH, Oliveira LR. Where do they live? Predictive geographic distribution of *Tadarida brasiliensis brasiliensis* (Chiroptera, Molossidae) in South America. *Neotropical Biology and Conservation* 18(3):139-156. 10.3897/neotropical.18.e101390
- 27. Anunciação PA, Ernst R, Martello F, Vancine MH, Ribeiro MC, Carvalho LMT. Climate-driven loss of taxonomic and functional richness in Atlantic Forest anurans. *Perspectives in Ecology and Conservation* 21(4):274-285. 10.1016/j.pecon.2023.09.001
- 28. Teixeira JVS, Bonfim FCG, Vancine MH, Ribeiro MC, Oliveira LC. Effect of landscape attributes at multiple scales on the occurrence of the threatened golden-headed lion tamarin, *Leontopithecus chrysomelas* Kuhl, 1820 (Primates, Callitrichidae). *American Journal of Primatology* 86(4):e23588. 10.1002/ajp.23588
- 29. Tonetti V, Bocalini F, Schunck F, Vancine MH, Butti M, Ribeiro MC, Pizo M, Balmford A. The Protected Areas network may be inefficient to cover biodiversity in a fragmented

- tropical hotspot under different climate scenarios. Perspectives in Ecology and Conservation. 22(1):63-71. 10.1016/j.pecon.2023.12.002
- 30. Vancine MH, Muylaert RL, Niebuhr BB, Oshima JEF, Tonetti V, Bernardo R, De Angelo C, Rosa MR, Grohmann CH, Ribeiro MC. The Atlantic Forest of South America: spatiotemporal dynamics of remaining vegetation and implications for conservation. *Biological Conservation* 291:110499. 10.1016/j.biocon.2024.110499

Books

1. Da Silva FR, Gonçalves-Souza T, Paterno GB, Provete DB, Vancine MH. 2022. Análises Ecológicas no R. Nupeea: Recife, PE, Canal 6: São Paulo. 640 p. ISBN 978-85-7917-564-0. link

For all publications, citations, and journal referee ORCID, Web of Science, Scopus, Google Scholar

MANUSCRIPTS IN REVIEW

- Vancine MH*, Niebuhr BB*, Muylaert RL, Oshima JEF, Tonetti V, Bernardo R, Alves RSC, Zanette EM, Souza VC, Giovanelli JGR, Grohmann CH, Galetti M, Ribeiro MC. ATLANTIC SPATIAL: a data set of landscape, topographic, hydrologic and anthropogenic metrics for the Atlantic Forest. Ecology (Data Paper). Preprint: EcoEvoRxiv. 10.32942/X26P58
- 2. Alves-Ferreira G, Mota FMM, Bello C, Vancine MH, Sobral-Souza T, Percequillo AR, Lacher Jr TE, Galetti M, Bovendorp RS. From hot to cold spots: climate change will modify endemism centers of small mammals in a biodiversity hotspot. Diversity and Distributions.
- 3. Ribeiro-Souza P, Graipel ME, Oshima JEF, Vancine MH, Lima F, Pires JSR, Ribeiro MC. The future of the wild felines under climate and landscape changes in the Atlantic Forest. *Perspectives in Ecology and Conservation*.
- 4. Barbosa FS, Vancine MH, Ribeiro MC, Siminski A. Análise Espacial da Fragmentação da Paisagem: um estudo de caso sobre os fragmentos florestais destinados à Reserva Legal em duas bacias hidrográficas no Estado do Piauí. Revista Brasileira de Geografia Física.
- 5. Goebel LGA, Vancine MH, Bogoni JA, Longo GR, Calicis M, Fearside PM, Palmeirim AF, Santos-Filho M. The spatio-temporal dynamics of vegetation cover and its configuration reveal an imminent threat in an Amazonian State. Land Degradation & Development.
- 6. Carvalho T, Falconi N, White T, Anjos LA, Giasson LOM, Vancine MH, Haddad CFB, Toledo LF, Becker CG. The Role of Seasonal Migration in Predicting Amphibian Population Persistence Across Fragmented Tropical Landscapes: An Individual-Based Model. Biodiversity and Conservation.
- 7. Gonçalves-Souza T, Chase J, Haddad N, Vancine MH, Melo FPL, Aizen M, Bernard E, Chiarello GA, Didham R, Faria D, Gibb H, Lima M, Magnago L, Mariano Neto E, Nogueira A, Nemésio A, Passamani M, Pinho BX, Rocha-Santos L, Rodrigues R, Safar N, Santos B, Soto-Werschitz A, Tabarelli M, Uehara-Prado M, Vasconcelos H, Vieira S, Sanders, N. Increasing species turnover does not alleviate biodiversity loss in fragmented landscapes. *Nature*.
- 8. Gonçalves-Souza T, **Vancine MH**, Sanders NJ, Haddad N, (...), Chase JM. LandFrag: a dataset to investigate the effects of habitat loss and fragmentation on biodiversity in forest fragments. *Global Ecology and Biogeography (Data Article)*.

TEACHING EXPERIENCE

Graduation courses (300 h)

Teaching assistant, Ecology and Biodiversity Graduate Program, Graduate Program, São I State University (UNESP)	Paulo
Undergraduate courses (102 h)	
• Statistical Models in Ecology (30 h) Teacher, Ecology Undergraduate, São Paulo State University (UNESP)	2020
• Statistical Models in Ecology (12 h) Teaching assistant, Ecology Undergraduate, São Paulo State University (UNESP)	2018
• Quantitative Ecology (60 h) Teaching assistant, Ecology Undergraduate, São Paulo State University (UNESP)	2015
Workshops and Short courses (104 h)	
• Introduction to the R language for data manipulation and visualization (09 h) Short course instructor, XXXIII Ecology Studies Week, São Paulo State University (UNESI	<i>2022</i> P)
• Introduction to the R language for data manipulation and visualization (08 h) Short course instructor, XXXI Ecology Studies Week, São Paulo State University (UNESP)	2021
• Geoprocessing with QGIS (03 h) Short course instructor, 32 ^a Biology Studies Week, São Paulo State University (UNESP)	2021
• Introduction to species distribution modeling using the R language (06 h) Workshop instructor, Mastozóologos Organizados em uma Conferência Online (MOCÓ), Socio Brasileira de Mastozoologia	<i>2021</i> edade
• Introduction to R Language (08 h) Short course instructor, XXX Ecology Studies Week, São Paulo State University (UNESP)	2019
• Introduction to R Language (08 h) Short course instructor, 30 ^a Biology Studies Week, São Paulo State University (UNESP)	2019
• Introduction to Species Distribution Modeling using R Language: theory and ptice (07 h) Short course instructor, 9° Brazilian Congress of Herpetology, The University of Campinas (CAMP)	2018
7	

• Introduction to the use of geospatial data in R (60 h)

• Introduction to the use of geospatial data in R (60 h)

• Ecological Niche Modeling: theory and practice (60 h)

• Ecological Niche Modeling: theory and practice (45h)

sity (UNESP)

sity (UNESP)

ESP)

versity of Pernambuco (UFRPE)

• Ecological Niche Modeling in R (30 h)

Invited teacher, Ecology, Biodiversity and Evolution Graduate Program, São Paulo State Univer-

Invited teacher, Ecology, Biodiversity and Evolution Graduate Program, São Paulo State Univer-

Invited teacher, Ethnobiology and Nature Conservation Graduate Program, Rural Federal Uni-

Teaching assistant, Ecology and Biodiversity Graduate Program, São Paulo State University (UN-

Teaching assistant, Ecology Graduate Program, The University of Campinas (UNICAMP)

• Introduction to Geoprocessing for Ethnobiology and Conservation (45 h)

2021

2020

2019

2017

2016

2016

• Field work with am Short course instructor	phibians (08 h) r, 29 ^a Biology Studies Week, São Paulo State Uni	2018 iversity (UNESP)
• Field herpetology (Short course instructor	15 h) r, XXVII Ecology Studies Week, São Paulo State	2016 University (UNESP)
• Introduction to soft Short course instructor	tware R (16 h) r, XXVII Ecology Studies Week, São Paulo State	2016 University (UNESP)
• Introduction to soft Short course instructor	tware R (08 h) r, XXVI Ecology Studies Week, São Paulo State	2015 University (UNESP)
9	a in electronic sheets - Calc (08 h) r, XXV Ecology Studies Week, São Paulo State U	2014 Jniversity (UNESP)
Guest lecturing (04 h)		
• Introduction to the Statistical Models in E	R language (02 h) Ecology, São Paulo State University (UNESP)	2023
	merical Ecology (02 h) São Paulo State University (UNESP)	2023
ADMINISTRATIVE EXP	ERIENCE	
• Student representat Graduate Program in	tive Ecology, Evolution and Biodiversity, São Paulo S	2020-2021 tate University (UNESP)
PROFESSIONAL AFFILIA	ATIONS AND MEMBERSHIPS	
Associação Brasileira o	de Ecólogos (ABE)	2018-Currently
• Associação Brasileira o	de Ciência Ecológica e Conservação (ABECO)	2021- $Currently$
STUDENT SUPERVISION	N	
• Lucas de Souza Alm Conhecimento atual, a link	neida listribuição potencial e conservação de Cecílias (A	2022 Amphibia: Gymnophiona)
	sis, Ecology, Biodiversity and Evolution Graduate	Program, São Paulo State
especialistas da IUCN	buição de espécies inferidos por Modelos de Nic para anfíbios anuros da América do Sul <u>link</u> te thesis, Ecology, São Paulo State University (U	
	rvalho de Oliveira o reprodutivo em comunidades de anuros na Mata te thesis, Biological Sscience, São Paulo State Un	
MEETINGS AND PRESE	NTATIONS	
Latest conferences		
• FOSS4G (Free and	Open Source Software for Geospatial)	2021

2021

2020

• Mastozoologists Organized in an Online Conference

• II Workshop of Community Ecology

• Brazilian Amphibian Conservation Symposium (ANFoCO)

2018

SERVICES

• Journal referee: Zoologia, PLOS One, Biological Invasions, Hydrobiologia, Scientific Data, Diversity and Distributions, Papéis Avulsos de Zoologia, Conservation Biology, Austral Ecology, Scientia Plena

SKILLS

Programming languages

• R (advanced), tidyverse (advanced), markdown (advanced), quarto (intermediate), shiny (basic), LaTeX (basic), git (intermediate), Python (basic), JavaScript (basic), shell/bash (basic)

R packages

- *lsmetrics*: multiscale calculation and spatialization of landscape metrics using GRASS GIS Authors: Bernardo Niebuhr*, **Maurício Humberto Vancine***, Felipe Martello Ribeiro, Renata de Lara Muylaert, John Wesley Ribeiro, Milton Cezar Ribeiro Site: mauriciovancine.github.io/lsmetrics
- atlanticr: provides data from the ATLANTIC, data papers from Atlantic Forest Authors: Maurício Humberto Vancine, Bernardo Niebuhr, Renata Muylaert, Mauro Galetti, Milton Cezar Ribeiro
 Site: mauriciovancine.github.io/atlanticr
- amphiBR: dataset from the official publication of the List of Amphibians in Brazil published by the Brazilian Society of Herpetology
 Authors: Paulo Barros de Abreu Junior, Maurício Humberto Vancine, Diogo B. Provete Site: paulobarros.github.io/amphiBR
- ecodados: ecological data base for teaching statistics
 Authors: Gustavo Paterno, Diogo B. Provete, Fernando Rodrigues da Silva, Thiago Gonçalves-Souza, Maurício Humberto Vancine
 Site: paternogbc.github.io/ecodados
- *lsma*: landscape-structure multiscale analysis using R Authors: Wilson Frantine-Silva, Lazaro S. Carneiro, André Luis Regolin, **Maurício Humberto Vancine**, Juliana S. Santos, Bernardo Brandão Niebuhr, Edson Valmorbida, Maria Cristina Gaglianone, Milton C. Ribeiro. Site: wilsonfrantine/lsma

Statistical knowledge

- Descriptive statistics: tabular data manipulation (advanced), spatial data manipulation (advanced), tabular data visualization (advanced), spatial data visualization (advanced)
- Inferential statistics: frequentist (advanced), likelihood (intermediate), bayesian (basic)

Softwares

• QGIS (advanced), GRASS GIS (advanced), GNU/Linux (intermediate)

Languages

- English (intermediate)
- Spanish (basic)

• Portuguese (native speaker)

MEDIA

N	01176
IN	ews

- Desmatamento desacelera na Mata Atlântica, mas fragmentação aumenta. *Mongabay Brasil.* link
- Novo estudo destaca preocupação com estado de conservação da Mata Atlântica. Um Só Planeta. link 2024
- Novo estudo destaca preocupação com estado de conservação da Mata Atlântica. Folha de São Paulo. link
- Novo estudo destaca preocupação com estado de conservação da Mata Atlântica. $Agência\ FAPESP.\ \underline{link}$
- Unidades de Conservação: guardiãs da Mata Atlântica. Ekos Brasil. link 2024
- Pesquisa da Unesp aponta melhora na conservação da Mata Atlântica. RecordTV Interior SP. link 2024
- Novo estudo destaca preocupação com estado de conservação da Mata Atlântica.

 Jornal da UNESP. link

 2024
- Alto Tietê somou mais de 30 hectares desmatados em quatro anos. G1. <u>link</u> 2023
- Pesquisadores mapeiam áreas com potencial para futuros surtos de doenças semelhantes à Covid-19. Jornal da UNESP. link

YouTube

- Análise de dados geoespaciais no R. Grupo de Estudos em Ecologia Quantitativa (GEEQ).

 link
 2024
- Análises Ecológicas no R (Lançamento). Análises Ecológicas no R. link 2022
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