MAURÍCIO H. VANCINE

Ecologist and Doctoral Student in Ecology, Evolution and Biodiversity
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CAREER SUMMARY

I am an Ecologist (2014), Master in Zoology (2018) and PhD student 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 25 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

EDUCATION

São Paulo State University (UNESP) *Mar 2020 - Mar 2024 (expected)*
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, <u>link</u>

- **Data Science Journey (330 h)** *2022*
  Ômega Data Science (Online), Curitiba, Paraná, <u>link</u>

- **Hierarchical Modelling of Species Communities with the R-package Hmsc (25 h)** *2020*
  University of Helsinki (Online), Helsinki, Finland, <u>link</u>

- **School on Community Ecology: from patterns to principles (60 h)** *2020*
  São Paulo State University (UNESP), São Paulo, SP, Brazil, <u>link</u>

- **Introduction to Hierarchical Modeling (45 h)** *2019*
  Federal University of Rio Grande do Sul (UFRGS), Porto Alegre, RS, Brazil, <u>link</u>

- **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, <u>link</u>

- **Biology and conservation of amphibians and reptiles (44 h)** *2015*
  Instituto Boitatá, IBEC, Alfenas, MG, Brazil, <u>link</u>

- **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)** *2014*
  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-currently*
  Title: Landscape structure as a predictor of taxonomic and functional diversity of amphibians in the Atlantic Forest
  Aim: analyzing the structure of landscapes throughout the Atlantic Forest; analyze how landscape structure affects the taxonomic and functional diversity of amphibian communities; and 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: 2022/01899-6
  Value: BRL 91,002.24

- **Master Graduate Scholarship**, São Paulo Research Foundation (FAPESP) *2017-2018*
  Grant: 2017/09676-8
  Value: BRL 16,248.54

- **Undergraduate Research Scholarship**, São Paulo Research Foundation (FAPESP) *2013-2015*
  Grant: 2013/02883-7
  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 (March 18, 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

7. 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 similarity 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

16. 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* 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). 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* gyac084. 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* 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. in press.* 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

1. **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**. *Perspective 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 Use Policy.*

TEACHING EXPERIENCE

Graduation courses (300 h)

- **Introduction to the use of geospatial data in R (60 h)** *2021*
  Invited teacher, Ecology, Biodiversity and Evolution Graduate Program, São Paulo State University (UNESP)

- **Introduction to the use of geospatial data in R (60 h)** *2020*
  Invited teacher, Ecology, Biodiversity and Evolution Graduate Program, São Paulo State University (UNESP)

- **Introduction to Geoprocessing for Ethnobiology and Conservation (45 h)** *2019*
  Invited teacher, Ethnobiology and Nature Conservation Graduate Program, Rural Federal University of Pernambuco (UFRPE)

- **Ecological Niche Modeling: theory and practice (60 h)** *2017*
  Teaching assistant, Ecology and Biodiversity Graduate Program, São Paulo State University (UNESP)

- **Ecological Niche Modeling: theory and practice (45h)** *2016*
  Teaching assistant, Ecology Graduate Program, The University of Campinas (UNICAMP)

- **Ecological Niche Modeling in R (30 h)** *2016*
  Teaching assistant, Ecology and Biodiversity Graduate Program, Graduate Program, São Paulo State University (UNESP)

Undergraduate courses (102 h)

- **Statistical Models in Ecology (30 h)** *2020*
  Teacher, Ecology Undergraduate, São Paulo State University (UNESP)

- **Statistical Models in Ecology (12 h)** *2018*
  Teaching assistant, Ecology Undergraduate, São Paulo State University (UNESP)

- **Quantitative Ecology (60 h)** *2015*
  Teaching assistant, Ecology Undergraduate, São Paulo State University (UNESP)

Workshops and Short courses (104 h)

- **Introduction to the R language for data manipulation and visualization (09 h)** *2022*
  Short course instructor, XXXIII Ecology Studies Week, São Paulo State University (UNESP)

- **Introduction to the R language for data manipulation and visualization (08 h)** *2021*
  Short course instructor, XXXI Ecology Studies Week, São Paulo State University (UNESP)

- **Geoprocessing with QGIS (03 h)** *2021*
  Short course instructor, 32ª Biology Studies Week, São Paulo State University (UNESP)

- **Introduction to species distribution modeling using the R language (06 h)** *2021*
  Workshop instructor, Mastozóologos Organizados em uma Conferência Online (MOCÓ), Sociedade Brasileira de Mastozoologia

- **Introduction to R Language (08 h)** *2019*
  Short course instructor, XXX Ecology Studies Week, São Paulo State University (UNESP)

- **Introduction to R Language (08 h)** *2019*
  Short course instructor, 30ª Biology Studies Week, São Paulo State University (UNESP)

- **Introduction to Species Distribution Modeling using R Language: theory and practice (07 h)** *2018*
  Short course instructor, 9º Brazilian Congress of Herpetology, The University of Campinas (UNICAMP)

- **Field work with amphibians (08 h)** *2018*
  Short course instructor, 29ª Biology Studies Week, São Paulo State University (UNESP)

- **Field herpetology (15 h)** *2016*
  Short course instructor, XXVII Ecology Studies Week, São Paulo State University (UNESP)

- **Introduction to software R (16 h)** *2016*
  Short course instructor, XXVII Ecology Studies Week, São Paulo State University (UNESP)

- **Introduction to software R (08 h)** *2015*
  Short course instructor, XXVI Ecology Studies Week, São Paulo State University (UNESP)

- **Organization of data in electronic sheets - Calc (08 h)** *2014*
  Short course instructor, XXV Ecology Studies Week, São Paulo State University (UNESP)

Guest lecturing (04 h)

- **Introduction to the R language (02 h)**   *2023*
  Statistical Models in Ecology, São Paulo State University (UNESP)

- **Introduction to Numerical Ecology (02 h)**   *2023*
  Quantitative Ecology, São Paulo State University (UNESP)

ADMINISTRATIVE EXPERIENCE

- **Student representative**   *2020-2021*
  Graduate Program in Ecology, Evolution and Biodiversity, São Paulo State University (UNESP)

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

- Associação Brasileira de Ecólogos (ABE)   *2018-Currently*

- Associação Brasileira de Ciência Ecológica e Conservação (ABECO)   *2021-Currently*

STUDENT SUPERVISION

- **Lucas de Souza Almeida**   *2022*
  Conhecimento atual, distribuição potencial e conservação de Cecílias (Amphibia: Gymnophiona)
  link
  Coadvidor, Master thesis, Ecology, Biodiversity and Evolution Graduate Program, São Paulo State University (UNESP)

- **Bruno Eduardo Ribeiro Silva**   *2022*
  Comparação da distribuição de espécies inferidos por Modelos de Nicho Ecológicos e mapa de especialistas da IUCN para anfíbios anuros da América do Sul link
  Advidor, Undergraduate thesis, Ecology, São Paulo State University (UNESP)

- **Helena Thereza Carvalho de Oliveira**   *2021*
  Distribuição do padrão reprodutivo em comunidades de anuros na Mata Atlântica link
  Advidor, Undergraduate thesis, Biological Sscience, São Paulo State University (UNESP)

MEETINGS AND PRESENTATIONS

Latest conferences

- **FOSS4G (Free and Open Source Software for Geospatial)**   *2021*

- **Mastozoologists Organized in an Online Conference**   *2021*

- **II Workshop of Community Ecology**   *2020*

- **Brazilian Congress of Herpetology**   *2019*

- **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*

SKILLS

Programming languages

- R (advanced), tidyverse (advanced), markdown (advanced), quarto (intermediate), shiny (basic), LaTeX (basic), git (basic), 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**, 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**
  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

News

- **Alto Tietê somou mais de 30 hectares desmatados em quatro anos**. *G1*. link   *2023*

- **Pesquisadores mapeiam áreas com potencial para futuros surtos de doenças semelhantes à Covid-19**. *Jornal da UNESP*. link   *2022*

YouTube

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

- **Modelos em Ecologia: extrapolando nosso conhecimento sobre a distribuição das espécies**. *DEA UFV*. link   *2021*

- **O Fascinante Mundo do GRASS**. *Fascinante Mundo do Sensoriamento Remoto*. link   *2021*

- **O fascinante mundo do GRASS GIS**. *GeoCast Brasil.* link   *2021*
- **Conhecendo Hugo Apéro: fazendo blogs com blogdown e R**. *GeoCast Brasil.* link *2021*
- **Estatística e análise de dados espaciais no R: um estudo de caso com dados do Lago Walker**. *GeoCast Brasil.* link   *2021*
- **Aplicações da Cartografia para a Ecologia Espacial**. *Ciclo de Palestras de Cartografia Básica (UFF).* link   *2021*
- **Uso e aplicações de modelos estatísticos em Ecologia e Geografia**. *EstaTiDados.* link *2020*
- **Unesp realiza estudo para verificar a importância do isolamento social**. *TV Claret.* link *2020*
- **We R Live 16: R Markdown: usando o R para comunicar seus resultados**. *GeoCast Brasil.* link   *2020*
- **We R Live 15: Introdução à estatística Espacial V**. *GeoCast Brasil.* link   *2020*
- **We R Live 14: Geoestatística com Jorge Kazuo Yamamoto**. *GeoCast Brasil.* link *2020*
- **We R Live 13: Introdução à Estatística Espacial IV**. *GeoCast Brasil.* link   *2020*
- **We R Live 11: florestal - Pacote R para inventário florestal**. *GeoCast Brasil.* link *2020*
- **We R Live 10: Join como associar dados à vetores**. *GeoCast Brasil.* link   *2020*
- **We R Live 09: Introdução à estatística Espacial III**. *GeoCast Brasil.* link   *2020*
- **We R Live 08: Introdução à Estatística Espacial II**. *GeoCast Brasil.* link   *2020*
- **We R Live 07: Introdução à estatística Espacial I**. *GeoCast Brasil.* link   *2020*
- **We R Live 06: Extraindo dados climáticos para pontos**. *GeoCast Brasil.* link   *2020*
- **We R Live 05: Manipulando dados raster no R II**. *GeoCast Brasil.* link   *2020*
- **We R Live 04: Manipulando dados raster no R**. *GeoCast Brasil.* link   *2020*
- **We R Live 03: Elaborando mapa no R com tmap**. *GeoCast Brasil.* link   *2020*
- **We R Live 02: Elaborando mapas no R**. *GeoCast Brasil.* link   *2020*
- **We R Live 01: Como começar no R**. *GeoCast Brasil.* link   *2020*
- **Métricas de paisagem no R**. *GeoCast Brasil.* link   *2019*

Podcasts and interviews

- **Você tem medo de errar?** *DesAbraçando Árvores.* link   *2022*
- **Conversa com Ecólogo II - A importância da análise de dados**. *Associação Brasileira de Ecólogos (ABE) - Conversa com Ecólogo.* link   *2020*
- **GeoCast Brasil**. *O Fascinante Mundo do Sensoriamento Remoto.* link   *2020*

REFERENCES

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