Melina de Souza **Leite**

ECOLOGIST AND DATA SCIENTIST

Theoretical Ecology Lab, University of Regensburg, Germany

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Research interests

Applied Ecology & Conservation
LANDSCAPE ECOLOGY; BIODIVERSITY AND SPECIES CONSERVATION; EVIDENCE-BASED SYNTHESIS AND SYSTEMATIC REVIEWS

Theoretical Ecology
FOREST DEMOGRAPHY; COMMUNITY ECOLOGY; MACROECOLOGY

Data Science & Ecological Statistics
MULTILEVEL/MIXED-EFFECTS MODELS, VARIANCE PARTITIONING ANALYSIS, MODELS' DIAGNOSTIC

Metascience & Open Science
DIVERSITY AND EQUITY IN ECOLOGY AND CONSERVATION, BEST PRACTICES AND TOOLS IN OPEN SCIENCE

Education

PhD in Ecology *Jun 2017 –> Dec 2022*
UNIVERSITY OF SÃO PAULO *São Paulo, Brazil*
- Title: Embracing Variability: the use of mixed effects models in Ecology
- Outstanding Thesis Prize 2023 from the University of São Paulo
- Mar 2020 - Mar 2021: Visiting PhD student at the University of Regensburg (Germany)
- Sep 2020 - Feb 2021: Predoctoral fellowship at Smithsonian Environmental Research Center, Smithsonian Institution (USA)
- Jan 2022 - Mar 2022: Visiting PhD student at Leiden University (The Netherlands)

MBA in Data Science and Analytics *Oct 2021 –> Jul 2023*
UNIVERSITY OF SÃO PAULO *São Paulo, Brazil*
- Title: How to get the most out of forest data? Disentangling tree demography with multilevel models

MBA in Environmental Management *Nov 2015 –> Aug 2017*
UNIVERSITY OF SÃO PAULO *São Paulo, Brazil*
- Title: Socio-economic factors and native vegetation cover on rural properties in the state of São Paulo, Brazil

MSc in Ecology *Mar 2007 –> Jul 2009*
FEDERAL UNIVERSITY OF RIO DE JANEIRO *Rio de Janeiro, Brazil*
- Title: Spatial and activity patterns of the water opossum Chironectes minimus in Atlantic Forest rivers in southeastern Brazil

BSc in Biology *Mar 2003 –> Feb 2006*
FEDERAL UNIVERSITY OF RIO DE JANEIRO *Rio de Janeiro, Brazil*
- Title: Ecology and conservation of the water opossum, Chironectes minimus, in Atlantic Forest rivers in the São João River Basin, Rio de Janeiro State

Professional Experiences

Postdoctoral Researcher *Sep 2024 –> Present*
THEORETICAL ECOLOGY LAB, UNIVERSITY OF REGENSBURG, GERMANY *Regensburg, Gemany*
- Project: Increasing the validity of statistical analyses with DHARMa

Staff Scientist in Ecology and Data Science *Aug 2010 –> August 2024*
DEPARTMENT OF ECOLOGY, UNIVERSITY OF SÃO PAULO *São Paulo, Brazil*
- Working in ecology and conservation research projects in Landscape Ecology and Conservation, Theoretical Ecology, Tropical Forest Ecology, Ecological Statistics
- Consultant in sampling design, statistical analysis, spatial analysis (GIS) and R language.
- Lecturer/Collaborating lecturer/teaching assistant in bachelor's biology and graduate Ecology courses.

Postdoctoral Researcher *Oct 2023 –> Feb 2024*
BAYREUTH CENTER OF ECOLOGY AND ENVIRONMENTAL RESEARCH (BAYCEER), BAYREUTH UNIVERSITY *Bayreuth, Germany*
- Project: Demography of global threatened tree species.
- Laboratory of Ecosystem Analysis and Simulations (EASI-lab).

Visiting Researcher *Jan 2023 –> Mar 2023*
INSTITUTE OF ENVIRONMENTAL SCIENCES (CML), LEIDEN UNIVERSITY *Leiden, The Netherlands*
- Project: Are There Limits to the Predictability of Forest Dynamics?

Environmental Consultant   *Jun 2009 –> Jul 2010*
MANY COMPANIES   *Brazil*
- Responsible for fieldwork on mammal assessment and for writing Environmental Impact Assessment reports in five Environmental License Projects in the brazilian states of Minas Gerais, Bahia, Piauí, Mato Grosso, and Goiás.

Teaching Experiences

LECTURER

Best practices and Open Science tools for Ecology   *2023 & 2024*
UNIVERSITY OF SÃO PAULO   *São Paulo, Brazil*
- Lecturer and co-creator of the course for graduate students (master's and PhD) at the Graduate Program in Ecology
- Block course, 2 week (45h) in 2024, 1 week (30h) in 2023

Introduction to R for Environmental Consultancy   *2016*
ARCADIS CONSULTANCY   *São Paulo, Brazil*
- Lecturer and creator of the course taught to the data science team at a large consultancy company in Brazil
- 2 months (May-June): 4h per week

The Atlantic Forest field course   *Jul 2025*
UNIVERSITY OF SÃO PAULO   *São Paulo, Brazil*
- Guest lecturer/Project reviewer at the block course for graduate students (master's and PhD) at the Graduate Program for Ecology

Field course on Invertebrate Zoology and Ecology   *2011 & 2012*
FEDERAL INSTITUTE OF EDUCATION (IFRJ)   *Rio de Janeiro, Brazil*
- Guest Lecturer in two field courses for bachelor/undergraduate students

R Language for Ecological Data Analysis   *2012 to 2018 & 2023*
UNIVERSITY OF SÃO PAULO   *São Paulo, Brazil*
- Teaching assistant for 8 times in the block course, taught once per year at the Graduate Program for Ecology

TEACHING ASSISTANT

Design, Planning and Data Analysis in Ecology   *2018*
UNIVERSITY OF SÃO PAULO   *São Paulo, Brazil*
- Block course, taught once per year at the Graduate Program for Ecology

Teaching assistant at bachelor courses in Biology   *2015 - 2017 - 2024*
UNIVERSITY OF SÃO PAULO   *São Paulo, Brazil*
- Ecology of plant populations and communities (2017)
- Virtual Ecology (2015, 2017)
- Bioclimatology (2024)

Undergraduate teaching assistant at bachelor courses in Biology   *2005 & 2006*
FEDERAL UNIVERSITY OF RIO DE JANEIRO   *Rio de Janeiro, Brazil*
- Ecology, two semesters 2005, including fieldwork
- Animal Ecology, one semester 2006, including fieldwork
- Vertebrate Zoology, one semester 2006, including fieldwork

Worshop on scientific graphics interpretation   *Jul 2024*
UNIVERSITY OF SÃO PAULO   *São Paulo, Brazil*
- Workshop dedicated to bachelor students applying for a master's/PhD at the Graduate Program in Ecology
- Bachelor students that were covered by the Diversity, Equity, and Inclusion affirmative action of the Program
- 3h

WORKSHOPS

Awards, fellowships and grants

The Brazilian reais (R$) amounts were converted to US dollars at the time of the award.

Research Grant   *$300,000 BRL ($57,000 USD)*
PPBIO-MMA, BRAZIL   *May 2024 –> April 2027*
- Researcher/collaborator at the 3-years research funding. Title: Reconnecting people with nature: a path to conserving the Atlantic Forest . PI: Paula Koeler Lira (Pontifícia Universidade Católica, Rio de Janeiro).

Outstanding Thesis Prize 2023   *$10,000 BRL (~$2,000 USD)*
UNIVERSITY OF SÃO PAULO   *Dec 2023 –> Dec 2023*
- Prize awarded to the best PhD thesis defended at the University of São Paulo in 2022, in the category of staff scientist.

Research Fellowship   *$5,030 EUR*
PRINT-USP AND CAPES, BRAZIL   *Jan 2023 –> Mar 2023*
- Two months fellowship from the Internationalization Program of the University of São Paulo and CAPES (Coordenação de Aperfeiçoamento de Pessoal de Nível Superior) to conduct research at Leiden University, The Netherlands.

Research Grant $10,000 BRL (~$2,000 USD)$

CAPES and Gratuate Program in Ecology, University of São Paulo — *Jan 2022 –> Mar 2022*
- Grant to develop part of the PhD project at Leiden University, The Netherlands.

Language Course Scholarship $1,860 EUR$

DAAD, Germany — *Jan 2022 –> Feb 2022*
- Scholarship from DAAD (Deutscher Akademischer Austauchdienst) to attend the Hochschulwinterkurs, an online German course (B2 level) at Leipzig University, Germany. It includes the course fee (€ 1185,00) and general expenses ($675 EUR).

MBA Scholarship $12,420 BRL (~$2,600 USD)$

University of São Paulo, Brazil — *Oct 2021 –> Jul 2023*
- Scholarship to cover all course fees of the MBA in Data Science and Analytics at the University of São Paulo.

Predoctoral Fellowship $18,080 USD$

Smithsonian Institution, USA — *Sep 2020 –> Feb 2021*
- 6-months fellowship to work at the Laboratory of Quantitative Ecology, Smithsonian Environmental Research Center, Edgewaters (USA).

Research Travel Grant $2,500 USD$

ForestGEO, Smithsonian Institution, USA — *Mar 2020 –> May 2020*
- Travel grant to develop the PhD project with the ForestGEO network at the University of Regensburg, Germany, for 2 months.

Research Grant $60,000 USD$

FAPESP, Brazil — *2017 –> 2020*
- Researcher collaborator at the 2-years research funding. Title: Functional and Phylogenetic assembly of trees in Restinga forest. PI: A.A. de Oliveira (University of São Paulo).

MBA Scholarship $16,200 BRL (~$4,700 USD)$

University of São Paulo, Brazil — *Nov 2015 –> Aug 2017*
- Scholarship to cover all course fees of the MBA in Environmental Management at the University of São Paulo.

Research Grant $60,000 USD$

FAPESP, Brazil — *2014 –> 2016*
- Researcher collaborator at the 2-years research funding. Title: Ecological Detective tools, using imperfect detection models to investigate ecological questions. PI: P.I. Prado (University of São Paulo).

Master's Scholarship $33,600 (~$13,440 USD)$

CNPq, Brazil — *Mar 2007 –> Mar 2009*
- 2-years fellowship from Brazilian National Council for Scientific Development (CNPq) to work on my master's project.

Undergraduate Scientific Scholarship $9,600 BRL (~$4,800 USD)$

CNPq, Brazil — *Mar 2005 –> Feb 2007*
- 2-years fellowship from Brazilian National Council for Scientific Development (CNPq) to work on my bachelor's science project.

Shortlisting

Southwood Prize 2022: Early Career Researcher Award *2023*

Journal of Applied Ecology
- Shortlisted among the 12 best papers in Journal of Applied Ecology in 2022 with the paper: Matrix quality determines the strength of habitat loss filtering on bird communities at the landscape scale.

Publications

15 peer-reviewed publications (6 as first author, 1 as senior author); 3 manuscripts in preparation (1 as first author); 6 Preprints; 5 repositories for datasets and code; 2 book chapters; 3 pieces of science outreach (2 reports for magazines, 1 for newspaper); 9 pieces of media coverage.

Google Scholar Citations (June 2024): 468; H-index 10; i10-index 10.

*Citations for each paper are according to Google Scholar. Links to publications on titles.

Peer-Reviewed articles

1. **Leite, M. de S.**, McMahon, S. M., Prado, P. I., Davies, S. J., Oliveira, A. A. de, …, Visser, M.D & Hülsmann, L. (2024). Major Axes of Variation in Tree Demography across Global Forests. *Ecography*, e07187. **EDITOR'S CHOICE of the June Issue.**

2. Hülsmann, L., Chisholm, R. A., Comita, L., Visser, M. D., **Leite, M. de S.**, … Hartig, F. (2024). Latitudinal Patterns in Stabilizing Density Dependence of Forest Communities. *Nature*, 1–8. Citations: 9.

3. **Leite, M. de S.**, Boesing, A. L., Metzger, J. P., & Prado, P. I. (2022). Matrix Quality Determines the Strength of Habitat Loss Filter- ing on Bird Communities at the Landscape Scale. *Journal of Applied Ecology*, 59(11), 2790–2802. Citations: 17.

4. Oberpriller, J., **Leite, M. de S.**, & Pichler, M. (2022). Fixed or Random? On the Reliability of Mixed-Effects Models for a Small Number of Levels in Grouping Variables. *Ecology and Evolution*, 12(7), e9062. Citations: 41. **Prize for 2022-2023 Top cited and Top Downloaded Paper of Ecology & Evolution**

5. Barros, C. dos S. de, Pistón, N., Delciellos, A. C., & **Leite, M. de S.** (2021). Is Oecologia Australis Promoting Gender Equality in Its Review Process? *Oecologia Australis*, 25(3), 642–647. Citations: 2.

6. Locosselli, G. M., Brienen, R. J. W., **Leite, M. de S.**, Gloor, M., Krottenthaler, S., Oliveira, A. A. de, Barichivich, J., Anhuf, D., Ceccantini, G., Schöngart, J., & Buckeridge, M. (2020). Global Tree-Ring Analysis Reveals Rapid Decrease in Tropical Tree Longevity with Temperature. *Proceedings of the National Academy of Sciences*, 117(52), 33358–33364. Citations: 72.

7. **Leite, M. de S.**, Silva Junior, J. A. D., Calaboni, A., Igari, A. T., Leite, M. D. S., Silva Junior, J. A. D., Calaboni, A., & Igari, A. T. (2020). Socioeconomic factors and natvie vegetation cover in rural landscapes in São Paulo state, Brazil. *Ambiente & Sociedade*, 23. Citations: 7.

8. Lira, P. K., **Leite, M. de S.**, & Metzger, J. P. (2019). Temporal Lag in Ecological Responses to Landscape Change: Where Are We Now? *Current Landscape Ecology Reports*, 4(3), 70–82. Citations: 59.

9. Acosta, A. L., d'Albertas, F., **Leite, M. de S.**, Saraiva, A. M., & Walter Metzger, J. P. (2018). Gaps and Limitations in the Use of Restoration Scenarios: A Review. R*estoration Ecology*, 26(6), 1108–1119. Citations: 24.

10. **Leite, M. de S.**, Galliez, M., Queiroz, T. L., & Fernandez, F. A. S. (2016). Spatial Ecology of the Water Opossum Chironectes Minimus in Atlantic Forest Streams. *Mammalian Biology*, 003. Citations: 9.

11. Fernandez, F. A. S., Galliez, M., **Leite, M. de S.**, Queiroz, T. L., & Palmeirim, A. F. (2015). Natural History of the Water Opossum Chironectes Minimus: A Review. *Oecologia Australis*, 19(1), 47–62. Citations: 17.

12. Palmeirim, A. F., **Leite, M. de S.**, Santos-Reis, M., & Fernandez, F. A. S. (2014). Habitat Selection for Resting Sites by the Water Opossum (Chironectes Minimus) in the Brazilian Atlantic Forest. *Studies on Neotropical Fauna and Environment*, 49(3), 231–238. Citations: 10.

13. **Leite, M. de S.**, Queir oz, T. L., Galliez, M., de Mendonça, P. P., & Fernandez, F. a. S. (2013). Activity Patterns of the Water Opossum Chironectes Minimus in Atlantic Forest Rivers of South-Eastern Brazil. *Journal of Tropical Ecology*, 29(03), 261–264. Citations: 16.

14. **Leite, M. de S.**, Tambosi, L. R., Romitelli, I., & Metzger, J. P. (2013). Landscape Ecology Perspective in Restoration Projects for Biodiversity Conservation : A Review. *Perspectives in Ecology & Conservation (Natureza & Conservação)*, 11(2), 108–118. Citations: 90.

15. Galliez, M., **Leite, M. de S.**, Queiroz, T. L., & Fernandez, F. A. S. (2009). Ecology of the Water Opossum Chironectes Minimus in Atlantic Forest Streams of Southeastern Brazil. *Journal of Mammalogy*, 90(1), 93–103. Citations: 58.

Manuscripts in preparation

Manuscripts are available upon request.

1. Barreto, J. R., **Leite, M. de S.**, Pardini, R., & Nichols, E. Context-Dependent Drivers of Biodiversity Response to Anthropogenic Changes. *To Be Submitted to Ecology.*

2. **Leite, M. de S.**, De Deurwaerder, H., Hülsmann, L., & Visser, M. D. Are There Limits to the Predictability of Forest Dynamics? *To Be Submitted to Biogeosciences.*

3. Morato, K., **Leite, M. de S.**, …, Metzger, J. P. Unpacking the Effects of Urban Green Areas Exposure on Mental Health: A Meta-Analysis. *Submitted to Landscape and Urban Planning.*

Preprints

1. Nakamura, G., Stabile, B. H., Frateles, L. F., Araujo, M. L., Neuhaus E., Marinho M., ***Leite, M. de S.**, Richter A., Liuyong, D., Freitas, T. M. S., Soares, B. E., Graça, W. J., Diniz-Filho, J. A. F. 2024 The macroecology of knowledge: Spatio-temporal patterns of name-bearing types in biodiversity science. EcoEvoRxiv. *Submitted to Science*.

2. *Barreto, J., Romitelli, I., Santana, P. C., Assis, A. P., Pardini, R., & ***Leite, M. de S.**. Is the Audience Gender-Blind? Smaller Audience in Female Talks Highlights Prestige Differences in Academia. EcoEvoRxiv. *Submitted for Recomendation to Peer Community In Ecology.* *Authors with Equal Contribution.

3. Noble, D. W. A., Xirocostas, Z. A., Wu, N. C., Martinig, A. R., Lagisz, M.,(…) Leite, MS,(…) et al. 2024. The promise of community-driven preprints in ecology and evolution. EcoEvoRxiv. Submitted to Proc. Royal Soc. B.

Preprints published in peer-reviewed journals:

4. **Leite, M. de S.**, McMahon, S. M., Prado, P. I., Davies, S. J., Oliveira, A. A. de, …, Visser, M.D. & Hulsmann, L. (2023). Major Axes of Variation in Tree Demography across Global Forests. bioRxiv.

5. **Leite, M. de S.**, Boesing, A. L., Metzger, J. P., & Prado, P. I. (2021). Matrix Quality Determines the Strength of Habitat Loss Filtering on Bird Communities at the Landscape Scale. EcoEvoRxiv.

6. Oberpriller, J., **Leite, M. de S.**, & Pichler, M. (2021). Fixed or Random? On the Reliability of Mixed-Effects Models for a Small Number of Levels in Grouping Variables. bioRxiv.

Book chapters

1. **Leite, M. de S.**, Silva Junior, J. A. D., Calaboni, A., & Igari, A. T. (2021). Variações no percentual de vegetação nativa em imóveis de povos indígenas, quilombolas e comunidades locais tradicionais no Estado de São Paulo. In M. C. da Cunha, S. B. Magalhães, & C. Adams (Eds.), Povos Tradicionais e Biodiversidade no Brasil: Vols. Parte II Seção 5: Os territórios indígenas e tradicionais protegem a biodiversidade? (p. 134).

2. Calaboni, A., **Leite, M. de S.**, Campanha, J. S., Oliveira, C. E. de, Resende, R. U., Pavanelli, J. M. M., Tambosi, L. R., & Igari, A. T. (2020). ODS 15 – Vida Terrestre – Histórico, Governança e Perspectivas Para Conservação Dos Ecossistemas Terrestres Na Macrometrópole Paulista. In K. Frey, P. H. C. Torres, P. R. Jacobi, & R. C. F. Ramos (Eds.), Objetivos Do Desenvolvimento Sustentável: Desafios Para o Planejamento e a Governança Ambiental Na Macrometrópole Paulista (pp. 235–261). Editora UFABC. Citations: 2.

Data/Code repositories

1. **Leite, M. de S.** & Barreto, J. (2024). Data and Code from: Is the audience gender-blind? Smaller audience in female talks highlights prestige differences in academia (v0.9.9). Zenodo.

2. **Leite, M. de S.** (2022). Data and Code from: Major Axes of Variation in Tree Demography across Global Forests. Zenodo.

3. **Leite, M. de S.** (2022). Data and Code from: Matrix Quality Determines the Strength of Habitat Loss Filtering on Bird Communities at the Landscape Scale (v2.2). Zenodo.

4. Pichler, M., **Leite, M. de S.** & Oberpriller, J. (2022). Data and Code from: Fixed or Random? On the Reliability of Mixed-Effects Models for a Small Number of Levels in Grouping Variables. Zenodo.

5. Locosselli, G., Brienen, R., **Leite, M. de Souza**, et al. (2020). Locoselli_et_al_2020_Global tree-ring analysis reveals rapid decrease in tropical tree longevity with temperature_PNAS. figshare repository.

6. **Leite, M. de S.** (2016). Data from: Spatial Ecology of the Water Opossum Chironectes Minimus in Atlantic Forest Streams. Movebank Repository.

Science outreach

1. Galliez, M., **Leite, M. de S.**, Fernandez, F. A. S., Queiroz, T. L., Palmeirim, A. F., Avelato, H. L., & Mendonça, P. P. (2011). Cuída d'água *Chironectes Minimus*. MG BIOTA,4(3), 56–60.2.

2. **Leite, M. de S.**, Galliez, M., Queiroz, T. L., & Fernandez, F. A. S. (2010). Cuíca D'água. In Ficha Dos Seres Volume 3 - Reserva Biológica União.

3. Fernandez, F. A. dos S., Galliez, M. & **Leite, M. de S.**. (2007). O Gambá Que Inventou o Submarino. Ciência Hoje, 39(234): 70–72.

4. Fernandez, FAS; Galliez M & **Leite, M. de S.**. 2007. O gambá que inventou o submarino. Jornal do Brasil, JB Ciência Hoje (edição 0309), p. A32, 11 Feb. 2007.

Media Coverage

1. Custódio, J. (2024). Árvores têm mais dificuldade de sobreviver perto de outras da mesma espécie. In Jornal da USP.

2. Bigas, B. (2023). Pró-Reitoria de Pós-Graduação divulga vencedores do Prêmio Tese Destaque USP. In Jornal da USP.

3. Journal of Applied Ecology (2023). Southwood Prize 2022: Shortlist Announced for Early Career Researcher Award. In The Applied Ecologist.

4. SORTEE. (2021). SORTEE Member Voices: Melina de Souza Leite. In SORTEE.

5. ForestGEO. (2021). ForestGEO Celebrates International Women & Girls in Science Day 2021. In ForestGEO.

6. Paiva, V. (2021). Árvores Passaram a Ter Uma Vida Mais Curta e Isso é Preocupante, Segundo Cientistas. In Hypeness.

7. Geraque, E. (2020). Árvores tropicais crescem mais rápido, mas duram pouco mais da metade do tempo de vida das temperadas. In Pesquisa FAPESP.

8. Podcast Diálogos Socioambientais. (2020). ODS15 - Falando de Vida Terrestre com Adriane, Leandro e Alexandre. Episódio de Podcast/Entrevista sobre o Capítulo 15 do livro *Objetivos Do Desenvolvimento Sustentável: Desafios Para o Planejamento e a Governança Ambiental Na Macrometrópole Paulista*. Available in Spotify.

9. Grandelle, R. (2010). Ribeirinho Tímido: Estudo Revela Hábitos de Espécie Pouco Conhecida. O Globo, 2–3.

Talks

Invited talks

Diagnostic of linear models *2024*
Lecture at the course on Ecological Modeling and Statistics — *university of São Paulo, Brazil*

Open Data: what is it and what's in it for me? *2024*
Lecture at the course on Data Management in Environmental Quality — *Federal University of Fronteira Sul, Brazil*

On the Demography of Threatened Trees *2023*
Plant Ecology seminar at BayCEER — *University of Bayreuth, Germany*

Open Data in Ecology *2023*
Lecture at the Graduate course on Open Science — *University of Goiás, Brazil*

Fixed or random? On the reliability of mixed-effects models for a small number of levels in grouping variables *2022*
Lecture at the Graduate course on Mixed-Effects Models — *University of São Paulo, Brazil*

Open Data: what is it and what's in it for me? *2022*
EcoEncontros seminar at the Department of Ecology — *University of São Paulo, Brazil*

Major axes of variation in tree demography across global forests *2022*
EcoEncontros seminar at the Department of Ecology — *University of São Paulo, Brazil*

Effects of matrix quality on the (dis)assembly of bird communities in fragmented landscapes *2019*
EcoEncontros seminar at the Department of Ecology — *University of São Paulo, Brazil*

Mixed models in Ecology: using GLMMs to separate processes that assemble biological communities *2018*
Lecture at the Graduate course on Mixed-Effects Models — *University of São Paulo, Brazil*

Selected talks

Organizing global forests: Disentangling the contributions of species, space, and time to tree demography
INTECOL Conference

2022
Geneva, Switzerland

The dominant role of taxonomy in global forests: Disentangling the major contributions to tree demography
ForestGEO seminar

2021
Online

Seeing the forest for the trees: Disentangling the contribution of species, space and time to the variability in tree vital rates
Festival of Ecology conference

2020
Online

Matrix quality modulates habitat loss filtering across scales on bird assemblages in fragmented landscapes
Laboratory of Theoretical Ecology

2020
University of Regensburg, Germany

Applications of Mixed-Effects models in Ecology
Laboratory of Landscape Ecology and Conservation

2017
University of São Paulo, Brazil

Other Professional Experiences

Jury member

1 PhD Defense
Graduate Program of Ecology

2023
University of São Paulo, Brazil

Student's committee member

1 MSc dissertation
Graduate Program of Ecology

2022 - 2024
University of São Paulo, Brazil

2 MSc dissertations
Graduate Program of Ecology

2023 - 2025
University of São Paulo, Brazil

Editorial

EcoEvoRxiv PrePrint Server
Preprint Moderator

2024 - Present

Oecologia Australis
Assistant Editor in Statistics

2020 - Present

Committee work

Staff representative
Committee of Permanent Affirmative Actions of the Graduate Program of Ecology

2024
University of São Paulo, Brazil

Staff representative
Council of the Department of Ecology

2022 - 2024
University of São Paulo, Brazil

Staff representative
Committee of Culture and Outreach of the Institute of Biosciences

2015
University of São Paulo, Brazil

Reviewer

Referee of 12 manuscripts for 7 peer-reviewed journals, including **Journal of Animal Ecology** (1; 2024), **Journal of Biogeography** (2; 2021,2022); **Biota Neotropical** (1; 2020); **Oecologia Australis** (3; 2014,2019,2021); **Studies of Neotropical Fauna and Environment** (1; 2018); **Mammalia** (1; 2010); **Biotemas** (2; 2010).

Referee of 1 funding project for the **Czech Science Foundation** (2024).

Others

International Workshop on MetaEcology
Organizational work

2016
University of São Paulo, Ilhabela, Brazil

Volunteering
Volunteer in a pedagogical activity at a preparatory course for students applying for the Graduate Program in Ecology (USP) through affirmative action policy

2022
Online, University of São Paulo

Affilliation in Scientific Organizations

ABECO
Brazilian Association for Ecological Science and Conservation

2020-2024

SBPC
Brazilian Society for the Advancement of Science

2020-2024

BES   *2020-2022*
British Ecological Society
SORTEE   *2021-2024*
Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology

Language skills

Portuguese   *Native speaker*

English   *Advanced/C1*
TOEFL ITP total score (2022): 647 of 677
Spanish   *Intermediate/B2*

German   *Intermediate/B2*
B2 course certificate from Leipzig University

Computational skills

Daily
R, Rmarkdown/Quarto, Git, GitHub, bash on MacOS/Linux servers for High-Performance Computing
Often
QGIS, ArCGIS
Seldom
Python, HTML, CSS, Latex

Specialized training

Schools, Workshops and Field courses

Workshop: How to plan and write a competitive research grant proposal   *2024*
University of Regensburg (6h)   *Regensburg, Germany*
Workshop: Leadership Skills - What Does It Take to be a Young Leader?   *2024*
University of Regensburg (6h)   *Regensburg, Germany*
Workshop: Ace your Mental Health in Science   *2024*
University of Regensburg (6h)   *Regensburg, Germany*
IX Southern-Summer School on Mathematical Biology   *2020*
ICTP-SAIRF (40h)   *São Paulo, Brazil*
School on Community Ecology: from principle to patterns   *2020*
ICTP-SAIRF (40h)   *São Paulo, Brazil*
Smithsonian CTFS-ForestGEO Analytical Workshop   *2019*
Singapore National University (2 weeks, 104h)   *Singapore*
Field Course: Ecology of the Pantanal   *2008*
Federal University of Mato Grosso do Sul (1 month)   *Mato Grosso do Sul, Brazil*
Filed Course: Ecology of the Amazon Forest   *2007*
Institute of Amazonian Research (INPA) (1 month)   *Amazonas, Brazil*

Other courses (graduate level)

Machine learning and AI in TensorFlow and R   *2020*
University of Regensburg (40h)   *Regensburg, Germany*
Model-based multivariate analysis of abundance data using R   *2018*
PR Statistics (40h)   *Glasgow, Scotland*
Generalized linear models   *2018*
Institute of Mathematics and Statistics, USP (120h)   *São Paulo, Brazil*
Multivariate analysis   *2018*
Institute of Mathematics and Statistics, USP (120h)   *São Paulo, Brazil*
Time Series Analysis   *2017*
Institute of Mathematics and Statistics, USP (60h)   *São Paulo, Brazil*
English for oral presentation   *2017*
University of São Paulo (30h)   *São Paulo, Brazil*
Workshop MCMC step-by-step   *2017*
Institute of Biosciences, USP (30h)   *São Paulo, Brazil*
Mixed-Effects Models and Applications   *2016*
Institute of Mathematics and Statistics, USP (120h)   *São Paulo, Brazil*

Multivariate Analysis for Environmental Science   *2016*
Institute of Biosciences, USP (40h)   *São Paulo, Brazil*
Introduction to Exploratory Analysis and Statistical Methods   *2016*
Institute of Biosciences, USP (40h)   *São Paulo, Brazil*
Coaching and Leadership   *2015*
University of São Paulo (40h)   *São Paulo, Brazil*
Software Carpentry Workshop for Python, Git and Github   *2015*
University of São Paulo (16h)   *São Paulo, Brazil*
Academic Writing   *2014*
Institute of Biosciences, USP (40h)   *São Paulo, Brazil*
Bayesian Models in Ecology   *2014*
Institute of Biosciences, USP (40h)   *São Paulo, Brazil*
Statistical Models in Population Ecology   *2014*
Institute of Biosciences, USP (40h)   *São Paulo, Brazil*
Statistical Modeling for Ecology   *2014*
Institute of Biosciences, USP (40h)   *São Paulo, Brazil*
R Language for Ecological Data Analysis   *2011*
Institute of Biosciences, USP (40h)   *São Paulo, Brazil*
English for Academic Writing   *2011*
Institute of Biosciences, USP (40h)   *São Paulo, Brazil*
GIS for Conservation Biology   *2009*
Institute for Ecological Research (IPE) (30h)   *São Paulo, Brazil*
Design and Analysis of Ecological Experiments   *2008*
Fluminense Federal University (40h)   *Rio de Janeiro, Brazil*