

VINICIUS AUGUSTO GALVÃO BASTAZINI

Summary

I have a broad (and when I say broad, I mean broad!) interest in Ecology, Evolutionary Biology and Conservation Biology, but my main interest lies in understanding the interplay between ecological and evolutionary dynamics and its consequences to patterns of biological diversity and species interactions. I address these kinds of questions by combining aspects of phylogenetics, network and functional ecology, using species traits as a biological building block to understand eco-evolutionary dynamics and their consequences to ecological communities and ecosystems services.



EDUCATION

- 2011
|
2015
- **Doctor of Science**
Federal University of Rio Grande do Sul*
Porto Alegre, Brazil

Dissertation: Integrating Evolutionary and Ecological Processes in the Study of Interaction Networks.

*Title recognized by the University of Lisbon 2019
- 2009
|
2011
- **Master's degree in Ecology**
Federal University of Rio Grande do Sul
Porto Alegre, Brazil

Thesis: Effects of Habitat and Spatial Structure on Mammalian Diversity in Northern Pantanal: A Fine Grain Approach
- 2004
|
2007
- **Bachelor of Science in Ecology**
Catholic University of Pelotas
Pelotas, Brazil

Undergraduate Thesis: Spatial Analysis of the Trophic Ecology of the Neotropical Otter (*Lontra Longicaudis*) (Olfers, 1818) (Mustelidae: Lutrinae)

PROFESSIONAL EXPERIENCE

- 2021
|
present
- **Researcher**
University of Évora
Évora, Portugal
- 2020
- **Research Fellow**
Federal University of Rio Grande do Sul - Road and Railroad Ecology Center
Porto Alegre, Brazil
- 2017
|
2019
- **Post-doctoral Researcher**
French National Center for Scientific Research
Moulis, France

CONTACT INFO

✉ bastazini.vinicius@gmail.com
S [vinicius.bastazini](https://www.instagram.com/vinicius.bastazini)
G github.com/bastazini
R^G [Research Gate](https://www.researchgate.net/profile/Vinicius-Bastazini)
G [Google Scholar](https://scholar.google.com/citations?user=0000-0001-5270-0621)
id [0000-0001-5270-0621](https://orcid.org/0000-0001-5270-0621)

EXPERTISE

Bigeography
Community Ecology
Evolutionary Ecology
Complex Networks
Conservation Biology

- 2016 ● **Research Fellow**
Federal University of Rio Grande do Sul - Laboratory of Quantitative Ecology
📍 Porto Alegre, Brazil
- 2013 ● **Professor Biostatistics**
Catholic University of Pelotas - Specialization in Conservation Biology
📍 Pelotas, Brazil
- 2008 ● **Research Fellow**
Catholic University of Pelotas
📍 Pelotas, Brazil
- 2008 | 2009 ● **Research Fellow**
Federal University of Rio Grande do Sul
📍 Porto Alegre, Brazil
- 2006 | present ● **Co-founder and Member of the Executive Committee**
Pró-Pampa Institute
📍 Pelotas, Brazil



PUBLICATIONS

● PEER-REVIEWED ARTICLES

- 2022 ● **Mainstreaming ecological connectivity in road environmental impact assessments: a long way to go**
Impact Assessment and Project Appraisal 1-6
Gonçalves, L.O., Kindel, A., Bastazini, V.A.G., & Teixeira, F.Z.
- 2022 ● **The role of evolutionary modes for trait-based cascades in mutualistic networks**
Ecological Modelling 470: 109983
Bastazini, V.A.G., Debastiani, V., Cappelatti, L., Guimarães, P., & Pillar, V.P.
- 2022 ● **Ecological network complexity scales with area**
Nature Ecology and Evolution 6: 307–314
Galiana, N., Lurgi M., Bastazini, V.A.G., Bosch, J., Cagnolo, L., Cazelles, K., Claramunt-López, B., Emer, C., Fortin, M., Grass, I., Hernández-Castellano, C., Jauker, F., Leroux, S.J., McCann, K., McLeod, A.M., Montoya, D., Mulder, C., Osorio-Canadas, S., Reverté, S., Rodrigo, A., Steffan-Dewenter, I., Traveset, A., Valverde, S., Vázquez, D.P., Wood, S.A., Gravel, D., Roslin, T., Thuiller, W. & Montoya, J.M.
- 2022 ● **Native and alien grassland diversity respond differently to environmental and anthropogenic drivers across spatial scales**
Journal of Vegetation Science 33(3): e13133
Bergamin, R S., Ascensão, F., Capinha, C., Bastazini, V.A.G., Andrade, B. O., Boldrini, I. I., Lezama, F., Altesor, A., Perelman, S., & Overbeck, G.E.

- 2021 ● **Phylogenetic uncertainty and the inference of patterns in community ecology and comparative studies**
Oecologia 196: 633–647
Debastiani, V., Bastazini, V.A.G. & Pillar, V.P.
- 2021 ● **Using phylogenetic information to impute missing functional trait values in ecological databases**
Ecological Informatics 63: 101315
Debastiani, V., Bastazini, V.A.G. & Pillar, V.P.
- 2021 ● **The impact of climate warming on species diversity across scales: Lessons from experimental meta-ecosystems**
Global Ecology and Biogeography 30 (7): 1545-1554
Bastazini, V.A.G., Galiana, N., Hillebrandt, H., Estiartes, M., Ogayas, R., Peñuelas, J., Sommer, U. & Montoya, J. M.
- 2020 ● **Species richness and patterns of overdispersion, clustering and randomness shape phylogenetic and functional diversity-area relationships in habitat islands.**
Journal of Biogeography 47 (8): 1638-1648
Dias, R. A., Bastazini, V.A.G., Kock, B., Bonow, F. C., Sanyvan, M. S. & Gianuca, A. T. 2020.
- 2020 ● **Including rewiring in the estimation of the robustness of mutualistic networks**
Methods in Ecology and Evolution 11 (1): 106-116
Vizentin-Bugoni, J., Debastiani, V.J., Bastazini, V.A.G., Maruyama, P.K. & Sperry J.H
- 2020 ● **NEOTROPICAL CARNIVORES: a dataset of occurrence of carnivores in the Neotropics.**
Ecology 101 (11): e03128
Nagy-Reis, M.B.,[...], Bastazini, V. A. G., et al.
- 2020 ● **NEOTROPICAL ALIEN MAMMALS: a dataset of occurrence and abundance of alien mammals in the Neotropics**
Ecology 101 (11): e03115.
Rosas, C., [...], Bastazini, V. A. G., et al.
- 2019 ● **Loss of generalist plant species and functional diversity decreases the robustness of a seed dispersal network**
Environmental Conservation 46 (1): 52-58.
Bastazini, V. A. G., Debastiani, V., Azambuja, B., Guimarães, P., & Pillar, V.
- 2019 ● **NEOTROPICAL XENARTHANS: a data set of occurrence of xenarthran species in the Neotropics**
Ecology 100(7): e02663
Santos, P.,[...], Bastazini, V. A. G., et al.

- 2018 ● **Assessing sampling sufficiency of network metrics using bootstrap**
Ecological Complexity 36: 268-275
Casas, G., Bastazini, V. A. G., Debastiani, V. J., & Pillar, V. D. P. 2018.
- 2018 ● **Environmental predictors of demography in the tuco-tuco of the dunes (*Ctenomys flamarioni*)**
Mastozoología Neotropical 25 (2): 293-304
Garcias, F. M., Stolz J., Fernández G. P, Kubiak B. B, Bastazini, V. A. G. & Freitas T. R. O.
- 2018 ● **Reptile road-kills in Southern Brazil: Composition, hot moments and hotspots**
Science of the Total Environment 615: 1438-1445
Gonçalves, L. O., Alvares, D. J., Teixeira, F. Z., Schuck, G., Coelho, I. P., Esperandio, I. B., Anza, J., Beduschi, J., Bastazini, V. A. G. & Kindel, A.
- 2017 ● **Untangling the tangled bank: A novel method for partitioning the effects of phylogenies and traits on ecological networks**
Evolutionary Biology 44: 312–324
Bastazini, V. A. G., Abreu, P. M., Azambujo, B., Casas, G., Debastiani, V., Guimarães Jr, P. R. & Pillar, V. P.
- 2017 ● **Livestock disturbance in southern Brazilian grasslands influences avian species diversity via turnover**
Biodiversity and Conservation 26: 2473–2490
Dias, R. D., Gianuca, A., Vizentin-Bugoni, J., Bencke, G. A. & Bastazini, V. A. G.
- 2017 ● **Linking beta diversity patterns to protected areas: Lessons from the Brazilian Atlantic Forest**
Biodiversity & Conservation 26: 1557–1568.
Bergamin, R. S., Bastazini, V.A.G., Vélez-Martin, E., Debastiani, V., Zanini, K. J., Loyola, R. & Müller, S.C.
- 2016 ● **Implications of climatic seasonality on activity patterns and resource use by sympatric peccaries in northern Pantanal**
International Journal of Biometeorology 60: 421-433
Hofmann, G. S., Coelho, I. P., Bastazini, V. A. G., Cordeiro, J. L. P. & Oliveira, L.F. B.
- 2015 ● **Choosing and using traits in functional diversity research**
Environmental Conservation 42: 104-107
Lefcheck, J., Bastazini, V. A. G. & Griffin, J. N.

- 2015 ● **Taxonomic and functional diversity of woody plant communities on opposing slopes of inselbergs in southern Brazil**
Plant Ecology and Diversity 8: 187-197
Carlucci, M. B., **Bastazini, V. A. G.**, Hofmann, G. S., Macedo, J.H., Iob, G., Duarte, L. D. S., Hartz, S.M. & Müller S.C.
- 2014 ● **Climate effects on amphibian distribution depend on phylogenetic scale and biogeography**
Global Ecology and Biogeography 23: 213-222
Duarte, L. S., Both, C., Carlucci, M., Debastiani, V., Cappelatti, L., Seger, G., Salengue, E., **Bastazini, V. A. G.**, Gonçalves, L. O., Brum, F. T. & Bernardo-Silva, J.
- 2014 ● **Bird-habitat associations in coastal rangelands of southern Brazil**
Iheringia - Série Zoologia 104: 200-208
Dias, R. A., Gianuca, A. T. & **Bastazini, V. A. G.**
- 2013 ● **Independent and shared effects of environmental features and space driving avian community beta-diversity across a coastal gradient in southern Brazil**
Austral Ecology 38: 864–873
Gianuca, A. T., **Bastazini, V. A. G.**, Dias, R. A. & Hernández, M. 2013.
- 2013 ● **Shifts in composition of avian communities related to temperate-grassland afforestation in southeastern South America**
Iheringia - Série Zoologia 103: 12-19
Dias, R. A., **Bastazini, V. A. G.**, Gonçalves, M. S. S., Bonow, F. C. & Müller, S.
- 2013 ● **Feeding ecology of *Lontra longicaudis* in the lower Arroio Grande, southernmost Brazil**
Anais da Academia Brasileira de Ciências 85: 285-294
Sousa, K. S., **Bastazini, V. A. G.** & Colares, E. P.
- 2012 ● **Abundance of *Conepatus chinga* (Carnivora: Mephitidae) and other medium-sized mammals in grasslands of southern Brazil**
Iheringia - Série Zoologia 102: 303-310
Kasper, C. B., **Bastazini, V. A. G.**, Soares, J. B. G. & Freitas, T. R. O.
- 2009 ● **First breeding record of the bay-capped wren-spinetail (*Spartonoica maluroides*) in Brazil, with nest and nestling descriptions and nesting behavior notes**
Iheringia - Série Zoologia 99: 449-455. 2009
Dias, R. A., Gonçalves, M. S. S. & **Bastazini, V. A. G.**

- 2008 ● **Trophic ecology and the use of shelters and latrines by the Neotropical otter (*Lontra longicaudis*) in the Taquari Valley, Rio Grande do Sul, Brazil**
Iheringia - Série Zoologia 98: 1-6
 Kasper, C. B., Bastazini, V. A. G., Salvi, J. & Grillo, H. C. Z.
- **BOOKS AND BOOK CHAPTERS**
- In press. ● **Road effects on biotic interactions**
 In: *Road Ecology: Synthesis and Perspectives*. eds.: D'Amico, M., Barrientos, R., Ascensão, F. Elsevier Science Publishing Co.
 Mestres, F., Quiles, P., Bastazini, V. A. G., Ascensão, F. 📍 Germany
- In press. ● **Biodiversidade e conservação de ecossistemas aquáticos do sul do Brasil (Biodiversity and conservation of aquatic ecosystems in southern Brazil)**
 USEB 📍 Brazil
 Gonçalves, M., Bastazini, V.A.G., Lanés, L. E., Andretti, C.
- In press. ● **Identificando o potencial de conservação de áreas úmidas usando ferramentas da teoria de redes complexas (Unravelling the conservation potential of wetlands using complex network tools)**
 In: *Biodiversidade e conservação de ecossistemas aquáticos do sul do Brasil*. eds.: Gonçalves, M., Andretti, C., Bastazini, V.A.G., Lanés, L. E. USEB
 Bastazini, V. A. G., Gianuca A.T., Vizentin-Bugoni J., Gonçalves, M.S.S., & Dias R.A. 📍 Brazil
- In press. ● **A fragmentação afeta a dinâmica populacional do arredio-do-gravatá em manchas úmidas naturais (Habitat fragmentation compromises the population dynamic of the Straight-billed Reedhaunter in natural wetlands)**
 In: *Biodiversidade e conservação de ecossistemas aquáticos do sul do Brasil*. eds.: Gonçalves, M., Andretti, C., Bastazini, V.A.G., Lanés, L. E. USEB
 Gonçalves M. S., Pons, P., Bonow, F., Bastazini, V. A. G., Gil-Delgado, J. & Iborra, G.L. 📍 Brazil
- 2013 ● **Fauna da Reserva Particular do Patrimônio Natural SESC Pantanal: uma perspectiva através de armadilhas fotográficas (Fauna of the SESC Pantanal Natural Heritage Private Reserve: a perspective through camera traps)**
 Hoffman, G. S., Bastazini, V. A. G., Coelho, I. P., Oliveira, L. F. B. SESC Publishing Co.
 NA 📍 Brazil



TEACHING EXPERIENCE AS AN INSTRUCTOR

- 2017 ● **Biostatistic using R**
Dep. Botany - Federal University of Rio Grande do Sul
📍 Porto Alegre, Brazil
- 2014 ● **Introduction to Quantitative Ecology**
Federal University of Pelotas
📍 Pelotas, Brazil
- 2011-2013 ● **Theoretical Ecology**
Federal University of Rio Grande do Sul
📍 Porto Alegre, Brazil
- 2013 ● **Introduction to Quantitative Ecology**
Zoo-botanic Foundation of Rio Grande do Sul
📍 Porto Alegre, Brazil
- 2013 ● **Introduction to R**
Pontifical Catholic University of Rio Grande do Sul
📍 Porto Alegre, Brazil
- 2012 ● **Introduction to Quantitative Ecology**
Federal University of Pelotas
📍 Pelotas, Brazil
- 2011 ● **Quantitative Methods Applied to Ecology**
Federal University of Rio Grande do Sul
📍 Porto Alegre, Brazil
- 2009 ● **Statics Applied to Ecology and Conservation Biology**
Federal University of Pelotas
📍 Pelotas, Brazil
- 2008 ● **Sampling and Analysis Techniques in Bird Ecology**
Lagoa do Peixe National Park / ICMBio
📍 Mostardas, Brazil
- 2008 ● **Sampling and Analysis Techniques in Animal Ecology**
Catholic University of Pelotas
📍 Pelotas, Brazil
- 2007 ● **Biodiversity Management and Conservation**
NGO Interação de Trabalhos Ambientais
📍 Caçapava do Sul, Brazil



ACADEMIC ADVISORY

- 2018 ● **Bruna de Castro Knopp**
Thesis - Master's Degree in Animal Biology, Federal University of Pelotas. (Co-advisor). Relationship Between Wetland Area and Taxonomic, Functional and Phylogenetic Diversity of Birds in Southern Brazil.
📍 Pelotas, Brazil
- 2014 ● **Timóteo Matthias Rico**
Monograph - Specialization in Conservation Biology, Catholic University of Pelotas, Brazil. Data Mining Applied to Conservation Biology: A case study on the extinction risk of mammals from Rio Grande do Sul
📍 Pelotas, Brazil

2012



Diogo Maia Gräbin

Monograph – Bachelor's Degree in Biology, Federal University of Rio Grande do Sul, Brazil. Density and Spatial Distribution of Rhea americana in Different Physiognomies of the Pantanal of Nhecolândia

📍 Porto Alegre, Brazil



INVITED TALKS

2022



Understanding the responses of mutualistic networks to climate change through the lens of evolutionary history

Norwegian Institute for Nature Research

📍 Norway

2020



Ecological networks

Dep. of Ecology – Federal University of Rio Grande do Sul

📍 Porto Alegre, Brazil

2020



Trait redundancy and the Structure and Stability of Mutualistic Networks: An Evolutionary approach

Emílio Goeldi Museum

📍 Belém do Pará, Brazil

2020



Climate Change: Re-shuffling the tangled bank

Biology Program. Federal Institute Farroupilha

📍 Santa-Maria, Brazil

2020



Climate-driven phenological shifts and the future of mutualist networks

Graduate Program in Animal Biology – Federal University of Pelotas

📍 Pelotas, Brazil

2020



Climate-driven phenological shifts and the eco-evolutionary dynamics of mutualistic networks

Dep. of Animal Biology – Federal University of Rio Grande do Sul

📍 Porto Alegre, Brazil

2018



Trait redundancy and the Structure and Stability of Mutualistic Networks

University of Valencia

📍 Valencia, Spain

2018



Untangling the Tangled Bank: Phylogenetic- and Trait-based approaches in Network ecology

University of Lisbon

📍 Lisbon, Portugal

2018



Untangling the Tangled Bank: Phylogenetic- and Trait-based approaches in Network ecology

Higher Institute of Agronomy

📍 Lisbon, Portugal

2017



Merging phylogenetic- and trait-based approaches into Network Ecology

Swansea University

📍 Swansea, Wales

2016



Coextinction and robustness in mutualistic networks: eco-evolutionary dynamics and patterns

Dep. of Ecology – Federal University of Rio Grande do Sul

📍 Porto Alegre, Brazil

2016



Coextinction and robustness in mutualistic networks: eco-evolutionary dynamics and patterns

Dep. of Ecology – University of Vale dos Sinos

📍 São Leopoldo, Brazil

- 2015

● **Untangling the tangled bank: a novel method for partitioning the effects of phylogenies and traits on ecological networks**
University of São Paulo 📍 São Paulo, Brazil
- 2015

● **Coextinction and robustness in mutualistic networks**
Dep. of Animal Biology – Federal University of Rio Grande do Sul
📍 Porto Alegre, Brazil
- 2012

● **Untangling the tangled bank: evolutionary and ecological components in interaction networks**
I International Seminar of Ecological Research and Education
📍 Pelotas, Brazil
- 2011

● **Species Detectability in Mammalogy Studies: Implications and Analytical Solutions**
Econsciência Institute 📍 Viamão, Brazil
- 2011

● **Considerations on the Use of Camera Traps in Conservation Biology**
Federal University of Rio Grande do Sul/ Curicaca Institute
📍 Porto Alegre, Brazil
- 2010

● **Independent and shared effects of area and habitat driving avian community structure in the São Gonçalo Channel**
Catholic University of Pelotas 📍 Pelotas, Brazil



GRANTS, AWARDS AND FUNDING

- 2011
|
2015

● **Coordination of Superior Level Staff Improvement**
Doctoral fellowship (R\$105,600) 📍 Porto Alegre, Brazil
- 2014

● **International Association for Vegetation Science**
Travel Grant (€1,700) 📍 Perth, Australia
- 2009
|
2011

● **Coordination of Superior Level Staff Improvement**
MSc fellowship (R\$36,000) 📍 Porto Alegre, Brazil
- 2009

● **Helmut Sick Award**
XVII Brazilian Congress of Ornithology



REVIWER



Journals

- Agriculture, Ecosystems and Environment
- Annals of the Brazilian Academy of Sciences
- Arthropod-Plant Interactions
- Biological Conservation
- Community Ecology
- Ecography
- Ecology Letters
- Evolutionary Ecology
- Forest Ecology and Management
- Frontiers in Ecology and Evolution
- Iheringia - Série Botânica
- Iheringia – Série Zoologia
- Journal of Biogeography
- Methods in Ecology and Evolution
- Oikos
- Perspectives in Plant Ecology Evolution and Systematics
- Scientific Reports
- The Science of Nature

● Books

- 2020 ● **Ecologia I: Explorando as inter-relações da vida sob a ótica evolutiva.**
In: Ensino de Biologia: uma perspectiva evolutiva - Volume I: Biodiversidade & Evolução.
- 2020 ● **Ecologia II: Impactos antrópicos e efeitos eco-evolutivos sobre a biodiversidade.**
In: Ensino de Biologia: uma perspectiva evolutiva - Volume II: Biodiversidade & Evolução.
- 2013 ● **As interações planta - polinizador e a estrutura de comunidades.**
In: Ecologia de Interações Planta-Polinizador.



OUTREACH

- 2021
|
present ● **Geekcologist**
Writer 📍 Portugal
- 2013
|
2019 ● **Biodiverse Perspectives**
Co-founder, Writer and International Communications and Outreach
Chairman 📍 USA