

# 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](mailto:bastazini.vinicius@gmail.com)  
S [vinicius.bastazini](https://www.instagram.com/vinicius.bastazini)  
G [github.com/bastazini](https://github.com/bastazini)  
R<sup>G</sup> [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 | 2010 ● **Co-founder and Member of the Executive Committee**  
Pró-Pampa Institute  
📍 Pelotas, Brazil



## PUBLICATIONS

### ● PEER-REVIEWED ARTICLES

- 2023 ● **Network and parasitological analyses reveal latitudinal gradient in bats-ectoparasitic flies interactions across the Neotropic**  
*Authorea preprint*  
Biz, L. **Bastazini, V.A.G.**, Carvalho, F., Pereira, M.J.R.
- 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.

- 2022 ● **Mainstreaming ecological connectivity in road environmental impact assessments: a long way to go**  
*Impact Assessment and Project Appraisal* 40 (6): 475-480  
Gonçalves, L.O., Kindel, A., Bastazini, V.A.G., & Teixeira, F.Z.
- 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  
Garcías, 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.  
 Mestre, 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., Andretti, C., **Bastazini, V.A.G.**, Lanés, L. E., Volcan, M.
- 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., Volcan, M. USEB  
 📍 Brazil  
**Bastazini, V. A. G.**, Gianuca A.T., Vizentin-Bugoni J., Gonçalves, M.S.S., & Dias R.A.
- In press. ● **Ecossistemas Aquáticos Continentais do sul do Brasil: Contexto histórico e desafios para a conservação (Aquatic Ecosystems of Southern Brazil: Historical Context and Challenges for Conservation)**  
 In: *Biodiversidade e conservação de ecossistemas aquáticos do sul do Brasil*. Gonçalves, M., Andretti, C., **Bastazini, V.A.G.**, Lanés, L. E. USEB  
 📍 Brazil  
 Gonçalves, M., **Bastazini, V.A.G.**, Andretti, C., Lanés, L. E., Volcan, M.

In press.

- **A fragmentação afeta a dinâmica das populações do arredio-do-gravatá (*Limnoides rectirostris*) em manchas de áreas úmidas continentais (Habitat fragmentation compromises the population dynamic of the Straight-billed Reedhaunter in continental wetlands)**

In: *Biodiversidade e conservação de ecossistemas aquáticos do sul do Brasil*. eds.: Gonçalves, M., Andretti, C., **Bastazini, V.A.G.**, Lanés, L. E., Volcan M. USEB

📍 Brazil

Gonçalves M. S., Pons, P., Bonow, F., **Bastazini, V. A. G.**, Gil-Delgado, J. & Iborra, G.L.

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).**

SESC Publishing Co.

📍 Brazil

Hoffman, G. S., **Bastazini, V. A. G.**, Coelho, I. P., Oliveira, L. F. B.



## 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

- **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

- 2023 ● **Talita Menger Ribeiro**  
Dissertation - PhD Degree in Ecology, University of Évora. (Advisor  
Doctoral Sandwich Program -CNPq).  
Évora, Portugal
- 2022 | 2023 ● **Bibiana Terra Dasoler de Oliveira**  
Dissertation - PhD Degree in Ecology, University of Évora. (Co-  
advisor Doctoral Sandwich Program -CAPES).  
Évora, Portugal
- 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

- 2023 ● **Cambios Climáticos: Re-enmarañando el enmarañado Darwiniano**  
Pedagogical and Technological University of Colombia  
Colombia
- 2022 ● **Climate change: Re-shuffling the Tangled Bank**  
Institute of Geography and Spatial Planning - University of Lisbon  
Portugal
- 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
- **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

2014

2009

2011

2009

- **Coordination of Superior Level Staff Improvement**  
Doctoral fellowship (R\$105,600)  Porto Alegre, Brazil
- **International Association for Vegetation Science**  
Travel Grant (€1,700)  Perth, Australia
- **Coordination of Superior Level Staff Improvement**  
MSc fellowship (R\$36,000)  Porto Alegre, Brazil
- **Helmut Sick Award**  
XVII Brazilian Congress of Ornithology



## MEMBER OF EDITORIAL BOARD

2023

present

- **Functional Ecology**  
Associate Editor



## REVIEWER

### 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 Animal Ecology
- Journal of Biogeography
- Methods in Ecology and Evolution
- Oikos
- Perspectives in Ecology and Conservation
- Perspectives in Plant Ecology Evolution and Systematics
- Plos Biology
- Proceedings of the National Academy of Sciences
- 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  
● **Blog Geekcologist**  
Writer 📍 Portugal

2013  
|  
2019  
● **Blog Biodiverse Perspectives**  
Co-founder, Writer and International Communications and Outreach  
Chairman 📍 USA