

# 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  
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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
- **M.S. 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
- **BSc 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  
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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://orcid.org/0000-0001-5270-0621)  
G [Google Scholar](https://scholar.google.com/citations?user=...)  
ORCID logo [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
- 2009 | 2008 ● **Research Fellow**  
Federal University of Rio Grande do Sul  
📍 Porto Alegre, Brazil
- 2009 | 2006 ● **Co-founder and Member of the Executive Committee**  
Pró-Pampa Institute  
📍 Pelotas, Brazil
- present



## PUBLICATIONS

### ● PEER-REVIEWED ARTICLES

- 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 ● **Native and alien grassland diversity respond differently to environmental and anthropogenic drivers across spatial scales**  
*Journal of Vegetation Science*: X-X  
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 ● **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.
- 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 prep. ● **Biodiversidade e conservação de ecossistemas aquáticos do sul do Brasil**  
USEB 📍 Brazil  
Gonçalves, M., Andretti, C., Bastazini, V. A. G., Lanés, L. E.
- 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. 📍 Germany  
Mestre, F., Quiles, P., Bastazini, V. A. G., Ascensão, F.
- 2013 ● **Fauna da Reserva Particular do Patrimônio Natural SESC Pantanal: uma perspectiva através de armadilhas fotográficas**  
SESC Publishing Co. 📍 Rio de Janeiro, Brazil  
Hoffman, G. S., Bastazini, V. A. G., Coelho, I. P., Oliveira, L. F. B.
- **PREPRINTS**
- 2018 ● **Habitat fragmentation compromises the population dynamic of the globally near-threatened Straight-billed Reedhaunter (*Limnortyx rectirostris*).**  
*BioRxiv*: 1-18  
Gonçalves M. S., Pons, P., Bonow, F., Bastazini, V. A. G., Gil-Delgado, J. & Iborra, G.L.



## 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
- **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
- 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