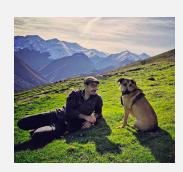
## VINICIUS AUGUSTO GALVÃO BASTAZINI

#### 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)

### I 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

github.com/bastazini

Research Gate

**G** Google Scholar

0000-0001-5270-0621

#### **EXPERTISE**

Bigeography Community Ecology Evolutionary Ecology Complex Networks Conservation Biology

2016	<ul> <li>Research Fellow</li> <li>Federal University of Rio Grande do Sul - Laboratory of Quan Ecology</li> </ul>		
		Porto Alegre, Brazil   ◆ Porto Alegre, Brazil	
2013		Professor Biostatistcs Catholic University of Pelotas - Specialization in Conservation Biology	
		<b>♥</b> Pelotas, Brazil	
2008   2009		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	
		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	•	Ecological network complexity scales with area Nature Ecology and Evolution 6: 307–314	
		Galiana, N., Lurgi M., <b>Bastazini, V.A.G.</b> , 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 VegetationScience 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 1-6 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 <i>Ecological Informatics</i> 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 <i>Global Ecology and Biogeography</i> 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 <i>Ecology</i> 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 <i>Environmental Conservation</i> 46 (1): 52-58.  Bastazini, V. A. G., Debastiani, V., Azambuja, B., Guimarães, P., & Pillar, V.
2019	•	NEOTROPICAL XENARTHRANS: a data set of occurrence of xenarthran species in the Neotropics

Ecology 100(7): e02663

Santos, P.,[ ...], **Bastazini, V. A. G.**, et al.

Assessing sampling sufficiency of network metrics using 2018 bootstrap Ecological Complexity 36: 268-275 Casas, G., Bastazini, V. A. G., Debastiani, V. J., & Pillar, V. D. P. 2018. Environmental predictors of demography in the tuco-tuco of 2018 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. Reptile road-kills in Southern Brazil: Composition, hot 2018 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. Untangling the tangled bank: A novel method for 2017 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. Livestock disturbance in southern Brazilian grasslands 2017 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. Linking beta diversity patterns to protected areas: Lessons 2017 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. Implications of climatic seasonality on activity patterns and 2016 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.

# 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.

## 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.

### 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.

### 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.

## 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.

## 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.

## 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.

# 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.

Germany

Mestre, F., Quiles, P., Bastazini, V. A. G., Ascensão, F.

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

Brazil

**Bastazini, V. A. G.**, Gianuca A.T., Vizentin-Bugoni J., Gonçalves, M.S.S., & Dias R.A.

In press.

A fragmentação afeta a dinâmica populacional do arrediodo-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

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) Hoffman, G. S., Bastazini, V. A. G., Coelho, I. P., Oliveira, L. F. B.SESC Publishing Co.

Brazil

NA

### **TEACHING EXPERIENCE AS AN INSTRUCTOR**

2017		<b>Biostatistic using R</b> Dep. Botany - Federal University of Rio Grande	do Sul  Porto Alegre, Brazil
2014	•	Introduction to Quantitative Ecology Federal University of Pelotas	<b>♀</b> Pelotas, Brazil
2011- 2013		<b>Theoretical Ecology</b> Federal University of Rio Grande do Sul	<b>♥</b> Porto Alegre, Brazil
2013		Introduction to Quantitative Ecology Zoo-botanic Foundation of Rio Grande do Sul	<b>♥</b> Porto Alegre, Brazil
2013		Introduction to R Pontifical Catholic University of Rio Grande do S	Sul <b>♀</b> Porto Alegre, Brazil
2012	•	Introduction to Quantitative Ecology Federal University of Pelotas	<b>♀</b> Pelotas, Brazil
2011		<b>Quantitative Methods Applied to Ecology</b> Federal University of Rio Grande do Sul	<b>♥</b> Porto Alegre, Brazil
2009		Statics Applied to Ecology and Conservation Federal University of Pelotas	tion Biology
2008		Sampling and Analysis Techniques in Bird Lagoa do Peixe National Park / ICMBio	d Ecology ♥ Mostardas, Brazil
2008		Sampling and Analysis Techniques in Ani Catholic University of Pelotas	imal Ecology
2007	•	Biodiversity Management and Conservation NGO Interação de Trabalhos Ambientais	<b>on</b> Caçapava do Sul, Brazil
		ACADEMIC ADVISORY	
2018	•	Bruna de Castro Knopp Thesis - Master's Degree in Animal Biology, Fed Pelotas. (Co-advisor). Relationship Between Wo Taxonomic, Functional and Phylogenetic Divers Southern Brazil.	etland Area and
			<b>♀</b> Pelotas, Brazil
2014		Timóteo Matthias Rico Monograph - Specialization in Conservation Bio University of Pelotas, Brazil. Data Mining Applie Biology: A case study on the extinction risk of m Grande do Sul	ed to Conservation nammals from Rio
			Pelotas,Brazil

2012	•	Diogo	Maia	Gräbir

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

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

  Norwegian Institute for Nature Research 

  ▼ Norway
- Dep. of Ecology Federal University of Rio Grande do Sul

  Porto Alegre, Brazil
- Trait redundancy and the Structure and Stability of

  Mutualistic Networks: An Evolutionary approach

  Emílio Goeldi Museum

  ▼ Belém do Pará, Brazil
- Climate-driven phenological shifts and the future of mutualist networks

  Graduate Program in Animal Biology Federal University of Pelotas

  Pelotas, Brazil
- Olimate-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
- Untangling the Tangled Bank: Phylogenetic- and Trait-based approaches in Network ecology
  University of Lisbon

  □ Lisbon, Portugal
- Untangling the Tangled Bank: Phylogenetic- and Trait-based approaches in Network ecology
  Higher Institute of Agronomy ♀ Lisbon, Portugal
- Merging phylogenetic- and trait-based approaches into

  Network Ecology

  Swansea University

  Swansea. Wales
- Coextinction and robustness in mutualistic networks: ecoevolutionary dynamics and patterns

  Dep. of Ecology – Federal University of Rio Grande do Sul
- Coextinction and robustness in mutualistic networks: ecoevolutionary dynamics and patterns

  Dep. of Ecology University of Vale dos Sinos ♥ São Leopoldo, Brazil

		Untangling the tangled bank: a the effects of phylogenies and University of São Paulo	-	
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		
2011	•	Species Detectability in Mammand Analytical Solutions Econsciência Institute	♥ Pelotas, Brazil  lalogy Studies: Implications  ♥ 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		
	Ö	GRANTS, AWARDS AN	D FUNDING	
2011   2015	•	Coordination of Superior Leve Doctoral fellowship (R\$105,600)	I Staff Improvement  ◆ Porto Alegre, Brazil	
2014		International Association for V Travel Grant (€1,700)	egetation Science Perth, Australia	
2009   2011		Coordination of Superior Leve MSc fellowship (R\$36,000)	I Staff Improvement  ♥ Porto Alegre, Brazil	
2009	•	Helmut Sick Award XVII Brazilian Congress of Ornithology		
	Q	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	<ul> <li>Frontiers in Ecology and Evolution</li> <li>Iheringia - Série Botânica</li> <li>Iheringia - Série Zoologia</li> <li>Journal of Animal Ecology</li> <li>Journal of Biogeography</li> <li>Methods in Ecology and Evolution</li> <li>Oikos</li> <li>Perspectives in Plant Ecology Evolution and Systematics</li> <li>Scientific Reports</li> <li>The Science of Nature</li> </ul>	

### **Books** Ecologia I: Explorando as inter-relações da vida sob a ótica 2020 evolutiva. In: Ensino de Biologia: uma perspectiva evolutiva - Volume I: Biodiversidade & Evolução. Ecologia II: Impactos antrópicos e efeitos eco-evolutivos 2020 sobre a biodiversidade. In: Ensino de Biologia: uma perspectiva evolutiva - Volume II: Biodiversidade & Evolução. As interações planta - polinizador e a estrutura de 2013 comunidades. In: Ecologia de Interações Planta-Polinizador. □ OUTREACH Geekcologist 2021 **♀** Portugal Writer present **Biodiverse Perspectives** 2013 Co-founder, Writer and International Communications and Outreach

**Q** USA

2019

Chairman