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.



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 / Professor

University of Evora

♥ Evora, 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

Biogeography
Community Ecology
Conservation Biology
Complex Networks
Evolutionary Ecology
Functional Ecology

2016	•	Research Fellow Federal University of Rio Grande do Sul - Lab Ecology	oratory of Quantitative ♦ Porto Alegre, Brazil
2013	•	Professor Biostatistcs Catholic University of Pelotas - Specialization Biology	in Conservation
		3.33	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 2010	•	Co-founder and Member of the Executiv Pró-Pampa Institute	e Committee
		PUBLICATIONS	
	•	PEER-REVIEWED ARTICLES	
Under	•	Elevational shifts in tree community con	nposition in the

Under review

2023

Elevational shifts in tree community composition in the Brazilian Atlantic Forest

Journal of Vegetation Science

Bergamin, R.S., **Bastazini, V.A.G.**, Esquivel-Muelbert, A., Bordin, K., Klipel, J., Debastiani, V., Vibrans, A., Loyola, R., Müller, S.

Network and parasitological analyses reveal latitudinal gradient in bats-ectoparasitic flies interactions across the Neotropic

Ecology and Evolution 13(9): e10527
Biz, L. Bastazini, V.A.G., Carvalho, F., Pereira, M.J.R.

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.

Native and alien grassland diversity respond differently to 2022 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.

- Mainstreaming ecological connectivity in road 2022 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.
- Phylogenetic uncertainty and the inference of patterns in 2021 community ecology and comparative studies Oecologia 196: 633-647

Debastiani, V., Bastazini, V.A.G. & Pillar, V.P.

Using phylogenetic information to impute missing 2021 functional trait values in ecological databases Ecological Informatics 63: 101315

Debastiani, V., Bastazini, V.A.G. & Pillar, V.P.

- The impact of climate warming on species diversity across 2021 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.
- Species richness and patterns of overdispersion, clustering 2020 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.

Including rewiring in the estimation of the robustness of 2020 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

NEOTROPICAL CARNIVORES: a dataset of occurrence of 2020 carnivores in the Neotropics.

> Ecology 101 (11): e03128 Nagy-Reis, M.B.,[...], Bastazini, V. A. G., et al.

NEOTROPICAL ALIEN MAMMALS: a dataset of occurrence 2020 and abundance of alien mammals in the Neotropics Ecology 101 (11): e03115.

Rosas, C., [...], Bastazini, V. A. G., et al.

Loss of generalist plant species and functional diversity 2019 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, NEOTROPICAL XENARTHRANS: a data set of occurrence of 2019 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. 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. 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. Choosing and using traits in functional diversity research 2015 Environmental Conservation 42: 104-107 Lefcheck, J., Bastazini, V. A. G. & Griffin, J. N. Taxonomic and functional diversity of woody plant 2015 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., lob, G., Duarte, L. D. S., Hartz, S.M. & Müller S.C. Climate effects on amphibian distribution depend on 2014 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 2014 Iheringia - Série Zoologia 104: 200-208 Dias, R. A., Gianuca, A. T. & Bastazini, V. A. G. Independent and shared effects of environmental features 2013 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 2013 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 2013

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: (eds) D'Amico, M., Barrientos, R., Ascensão, F. *Road Ecology: Synthesis and Perspectives*. Elsevier Science Publishing Co. 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

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

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

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 (Limnoctites rectirostris) em manchas de áreas úmidas continentais (Habitat fragmentation compromises the population dynamic of the Straight-billed Reedhaunter in continental wetlands)

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

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. ISBN: 978-85-89336-99-4 Hoffman, G. S., Bastazini, V. A. G., Coelho, I. P., Oliveira, L. F. B.

TEACHING EXPERIENCE

	\top		
2022 present	•	Biogeography University of Evora	♥ Evora, Portugal
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 S	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 Conservat 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	mal Ecology

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 Evora. (Advisor Doctoral Sandwich Program -CNPq).
2022 2023	 ■ Bibiana Terra Dasoler de Oliveira Dissertation - PhD Degree in Ecology, University of Evora. (Coadvisor Doctoral Sandwich Program -CAPES). ■ Evora, 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
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 Porto Alegre, Brazil
	INVITED TALKS
2023	 Climate change: Re-shuffling Darwin's Tangled Bankno Pedagogical and Technological University of Colombia ♥ Tunja, Colombia
2022	Climate change: Re-shuffling the Tangled Bank Institute of Geography and Spatial Planning - University of Lisbon ◆ Lisbon, Portugal
2022	● Understanding the responses of mutualistic networks to climate change through the lens of evolutionary history Norwegian Institute for Nature Research ◆ Torgarden, Norway
2020	 Ecological networks Department 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 Para, Brazil

2020		Climate Change: Re-shuffling the tangle Department of Biology. Federal Institute Farro	
2020	•	Climate-driven phenological shifts and	the future of
		mutualist networks Graduate Program in Animal Biology – Feder	al University of Pelotas ♦ Pelotas, Brazil
2020	•	Climate-driven phenological shifts and dynamics of mutualistic networks	•
		Department of Animal Biology – Federal Univ Sul	ersity of Rio Grande do
			Porto Alegre, Brazil
2018		Trait redundancy and the Structure and Mutualistic Networks	Stability of
		University of Valencia	♀ Valencia, Spain
2018	•	Untangling the Tangled Bank: Phylogen approaches in Network ecology	etic- and Trait-based
		University of Lisbon	♀ Lisbon, Portugal
2018		Untangling the Tangled Bank: Phylogen approaches in Network ecology	etic- and Trait-based
		Higher Institute of Agronomy	♀ Lisbon, Portugal
2017	•	Merging phylogenetic- and trait-based a Network Ecology	approaches into
		Swansea University	Swansea, Wales
2016		Coextinction and robustness in mutuali evolutionary dynamics and patterns	
		Department of Ecology – Federal University of	Porto Alegre, Brazil
2016	•	Coextinction and robustness in mutuali evolutionary dynamics and patterns	stic networks: eco-
		Department of Ecology – University of Vale de	os Sinos ♥ São Leopoldo, Brazil
	•	Untangling the tangled bank: a novel m the effects of phylogenies and traits on University of São Paulo	-
2015	•	Coextinction and robustness in mutuali Department of Animal Biology – Federal Univ Sul	
		- Cui	Porto Alegre, Brazil
2012	•	Untangling the tangled bank: evolutions components in interaction networks	ary and ecological
		I International Seminar of Ecological Research	h and Education ♀ Pelotas, Brazil
2011	•	Species detectability in mastozoology: analytical solutions	Implications and
		Econsciência Institute	♀ Viamão, Brazil

	1			
2011	•	Considerations on the use of camera traps in conservation biology		
		Federal University of Rio Grande d	lo Sul/ Curicad	ca Institute Porto Alegre, Brazil
2010		Independent and shared effect avian community structure in the Catholic University of Pelotas		
	Ö	GRANTS, AWARDS AN	ID FUNDI	NG
2011 2015	•	Coordination of Superior Leve Doctoral fellowship (R\$105,600)	l Staff Impro	ovement ♥ Porto Alegre, Brazil
2014		International Association for V Travel Grant (€1,700)	egetation So	cience ♥ Perth, Australia
2009 2011	•	Coordination of Superior Leve MSc fellowship (R\$36,000)	l Staff Impro	ovement ♥ Porto Alegre, Brazil
2009	•	Helmut Sick Award XVII Brazilian Congress of Ornithol	logy	
	Q	MEMBER OF EDITORIA	AL BOAR	D
2023 present	•	Functional Ecology Associate Editor		
	Q	REVIEWER		
	•	Journals		
		 Agriculture, Ecosystems and Environment Annals of the Brazilian Academy of Sciences Arthropod-Plant Interactions Biological Conservation Community Ecology Ecography Ecology Letters 	OikosPerspectivesConservationPerspectives	iogeography Ecology and Evolution is in Ecology and is in Plant Ecology d Systematics

• Forest Ecology and Management • Academy of Sciences • Frontiers in Ecology and Evolution • Scientific Reports

Proceedings of the National

The Science of Nature

Books

Evolutionary Ecology

Iheringia - Série Botânica

• Iheringia – Série Zoologia

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 Maintainer, Writer	
2022	•	Transport Ecology Invited Writer	
2021	•	R-Bloggers Invited Writer	
2019	•	Blog Methods In Ecology and Evolution Invited Writer	
2013 2019	•	Blog Biodiverse Perspectives Co-founder, Writer and International Communications and Outreach Chairman	
	**	CONFERENCE ORGANIZATION	
2023	•	The Alfred Wallace Seminar Series ◆ Evora, Portugal	
2023	•	Science Festival '23 / School of Science and Technology Day	
		♥ Evora, Portugal	
2016		1st Biennial Meeting of the Brazilian Association of Ecological Science and Conservation / 5th Symposium on	
	1	Theoretical Ecology ♥ Gramado, Brazil	