

Bruna Arbo Meneses

GIS Analyst

I am a conservationist and GIS analyst with experience in systematic conservation planning, connectivity analysis, species distribution modelling, ecological corridor projects, and landscape ecology. I have a broad interest in Ecology, Conservation Biology, and Data Analysis, especially in land planning for biodiversity conservation, aiming to decrease the potential reduction in species extinction risk.



EDUCATION

- 2024
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2022

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MBA in Data Science e Analytics
University of São Paulo - Luiz de Queiroz College of Agriculture
Piracicaba, Brazil
- 2016
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2014

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M.S., Ecology
Federal University of Rio Grande do Sul (UFRGS)
Porto Alegre, Brazil
· Scholarship from Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq). Thesis title: Pressão ambiental em bacias hidrográficas do Pampa e sua relação com a ictiofauna.
- 2011
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2006

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B.S., Biological Sciences
Federal University of Rio Grande do Sul (UFRGS)
Porto Alegre, Brazil
· Title: Spatial distribution modeling of three fish species (Characidae) in Atlantic Forest basins, Rio Grande do Sul, Brazil.

PROFESSIONAL EXPERIENCE

- ongoing
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2024

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Science officer (Birds & Energy)
BirdLife International
Cambridge, UK
- 2023
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2019

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GIS Technician
National Center for Research and Conservation of Reptiles and Amphibians (RAN/ICMBio)
Goiânia, Brazil
· Participates in the process of elaborating the Strategic Areas of the Plans of Action coordinated by the Center, in the execution of PANs actions related to spatial analysis and other on-demand activities.
- 2018
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2011

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GIS Consultant
Instituto Curicaca
Porto Alegre, Brazil
· Consultant hired on several projects, general coordinator of the Institution (unpaid role) between February 2015 and August 2016, coordinator of the Landscape Management and Geoprocessing Center between 2016 and 2018. Intern in 2011.
- 2012
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2011

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Administrative assistant
Fundação Estadual de Proteção Ambiental Henrique Luís Roessler (FEPAM)
Porto Alegre, Brazil
· Public assistance service for environmental licensing processes opening.
- 2011
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2009

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Undergraduate researcher
Landscape Ecology Lab - UFRGS
Porto Alegre, Brazil

CONTACT INFO

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github.com/arbobm
- in

/brunameneses
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Cambridge, UK.

SKILLS

- ArcGIS
- QGIS
- R
- Tidyverse
- RMarkdown
- html/css
- shiny app
- LaTeX
- Inkscape
- GIMP
- Microsoft Office

GRANTS

- Curso-R - Diversity scholarship (jul & nov, 2022)
- AI Inclusive & Dataquest.io - Women and other under-represented genders in data science scholarship (jan-jun 2021)



PEER-REVIEWED ARTICLES

- 2024 ● **Fire and herpetofauna in the Pantanal: observations during and post-fire events**
Valencia-Zuleta, A.; Richter, A.; Alvarenga, G.V.; Batista, F.R.Q.; Moreira, L.F.B.; **Arbo-Meneses, B.**; Lustosa, A.P.G.; Strüssmann, C.; Abrahão, C.R.; Côrtes, L.G.
Biodiversidade Brasileira v. 14, n. 4
- 2023 ● **NEOTROPICAL FRESHWATER FISHES: A Dataset of Occurrence and Abundance of Freshwater Fishes in the Neotropics.**
Tonella, Livia Helena, Renata Ruaro, Vanessa Salete Daga, Diego Azevedo Zoccal Garcia, Oscar Barroso Vitorino Júnior, Tatiana Lobato-de Magalhães, Roberto Esser dos Reis, et al.
Ecology e3713
- 2019 ● **Movement and longitudinal distribution of a migratory fish (*Salminus brasiliensis*) in a small reservoir in southern Brazil**
Fries, L.C.C.; Hahn, L.; **Meneses, B.A.**; Câmara, L.F.; Becker, F.G.; Hartz, S.M.
Neotropical Ichthyology v. 17, n. 3.
- 2010 ● **Research on reproduction of natural fish populations in Brazil (2001-2010): a brief overview of trends and gaps**
Becker, F.G.; Fries, L.C.C.; Guimarães, T.F.R.; **Meneses, B.A.**
Boletim - Sociedade Brasileira de Ictiologia v. 100, p. 40-44.



TECHNICAL REPORTS

- 2018 ● **2nd Update of Priority Areas for Biodiversity Conservation – Pampa Biome.**
Krob, A.; Martin, E.V.; Zank, C.; **Meneses, B.A.**
Instituto Curicaca & Federal Environment Ministry.
- 2018 ● **Itapeva State Park Public Use Plan: Base Document.**
Krob, A. (Org.); Aydos, B.B.; **Meneses, B.A.**; Zank, C.; Baptista, J.; Mendes, T.; Bohrer, P.; Mello, G.; Rosa, H.; Mansur, D.; Santos, R.; Berthier, N.; Missau, L.; Vanin, A.; Almeida, T.; Paesi, R.; Miranda, E.
Instituto Curicaca & Secretariat for the Environment and Sustainable Development - SEMA/RS. 78p.
- 2016 ● **Quarta-Região ecological corridor**
Krob, A. (Org.); Pinheiro, P.; **Meneses, B.A.**; Gonçalves, J.; Kindel, A.; Reck, M.A.
Instituto Curicaca & RS Biodiversidade Project. 90p.
- 2015 ● **Delimitation and Planning for Implementation of Ecological Corridors in the Buffer Zone of Espinilho State Park within the scope of the RS Biodiversidade Project.**
Krob, A. (Org.); **Meneses, B.A.**; Paulsen, R.K.; Barcelos, F.; Kindel, A.
Instituto Curicaca & Secretariat for the Environment and Sustainable Development - SEMA/RS. 65p.



PROFESSIONAL DEVELOPMENT

- 2023 ● **Introduction to Google Earth Engine**
Online · Imazon. 10h.

- 2023 ● **Orbital Image Analysis in Google Earth Engine (GEE)**
Online · Solved - Soluções em Geoinformação. 40h.
- 2022 ● **Fundamentals of Statistics, Introduction to R Software and Machine Learning**
Online · University of São Paulo - Luiz de Queiroz College of Agriculture. 30h.
- 2022 ● **Automatic reports and presentations**
Online · curso-R. 12h.
- 2022 ● **Deploy**
Online · curso-R. 9h.
- 2022 ● **Data visualization**
Online · curso-R. 12h.
- 2022 ● **Introduction to Dinâmica EGO**
Online · Federal University of Minas Gerais. 11h.
- 2021 ● **IUCN Red List Methodology**
Online · conservationtraining.org and IUCN CSE Brasil tutorship. 42h.
- 2021 ● **Biodiversity monitoring: data management, analysis and synthesis**
Online · National School of Public Administration, ENAP. 49h.
- 2019 ● **Introduction to Google Earth Engine**
Ecology Department/Federal University of Rio Grande do Sul (UFRGS). 40h.
📍 Porto Alegre, Brazil
- 2019 ● **Reproducible Templates for Analysis and Dissemination**
Online · Coursera. 24h.
- 2016 ● **Environmental Dynamics Modeling with Dinamica EGO**
Institute of Geosciences - Federal University of Minas Gerais (UFMG). 18h.
📍 Belo Horizonte, Brazil
- 2015 ● **Introduction to Marxan**
Federal University of Mato Grosso do Sul (UFMS). 20h. 📍 Campo Grande, Brazil
- 2012 ● **Landscape Ecology applied to environmental diagnostics**
Instituto de Pesquisas Ecológicas - IPÊ. 32h. 📍 Nazaré Paulista, Brazil
- 2012 ● **Biodiversity Modeling**
Instituto de Pesquisas Ecológicas - IPÊ. 24h. 📍 Nazaré Paulista, Brazil
- 2012 ● **Introduction to Road Ecology**
International Association for Landscape Ecology (IALE-BR). 17h. 📍 Salvador, Brazil
- 2010 ● **Remote Sensing and GIS applied to Conservation Biology**
Instituto de Pesquisas Ecológicas - IPÊ. 60h. 📍 Nazaré Paulista, Brazil



TEACHING EXPERIENCE AS A INSTRUCTOR

- 2023 ● **Spatial Prioritization for Elaboration of Strategic Areas of Action Plans**
worked as a teacher and in the organization of teaching material. 17h. 📍 Online.

National Center for Research and Conservation of Reptiles and Amphibians (RAN/ICMBio).



TEACHING EXPERIENCE AS A MONITOR

2015

● Short-course GIS: principles and layout design

Contributed to the organization of the short-course during the Biology Academic Week - UFRGS 2015, acting mainly as a monitor during the practices. 20h.

📍 Porto Alegre, Brazil.

Instituto de Biociências/UFRGS.

2012

● Disciplina ECP 0098 B - Special Topics Applied to Ecology: Foundations in Landscape Ecology.

Worked as a monitor in the discipline offered in the Graduate Program in Ecology at UFRGS, taught by prof. Milton Cezar Ribeiro, from December 10 to 14, 2012. 30h.

📍 Porto Alegre, Brazil.

Instituto de Biociências/UFRGS.



PARTICIPATION IN EVENTS

2023

● Preparatory Workshop for the 2nd Cycle of the National Action Plan for the Conservation of Endangered Herpetofauna in the Southeast

40h.

📍 Iperó, Brazil.

2022

● Mid-Term Assessment Workshops and 3rd Annual Monitoring of the 2nd Cycle of the National Action Plan for the Conservation of Threatened Herpetofauna in the Northeast

30h.

📍 Pacoti, Brazil.

2022

● Brazilian Snake Extinction Risk Assessment Workshop

16h.

📍 Online.

2021

● Mid-Term Assessment Workshops and III Monitoring of the National Action Plan for the Conservation of Endangered Species of Ichthyofauna, Herpetofauna and Primates of the Cerrado and Pantanal - CERPAN

32h.

📍 Goiânia, Brazil.