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 | 2022

MBA in Data Science & Analytics
University of São Paulo - Luiz de Queiroz College of Agriculture

📍 Piracicaba, Brazil

· Title:

2016 | 2014

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 | 2006

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 | 2024

Science Officer (Birds & Energy)
BirdLife International

📍 Cambridge, UK

2023 | 2019

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 | 2011

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 | 2011

Administrative assistant
Fundação Estadual de Proteção Ambiental Henrique Luís Roessler (FEPAM)

📍 Porto Alegre, Brazil

· Public assistance service for environmental licensing processes opening.

2011 | 2009

Undergraduate researcher
Landscape Ecology Lab - UFRGS

📍 Porto Alegre, Brazil

CONTACT INFO

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⊙ github.com/arbobm

in /brunameneses

📍 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, Lívia 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 DinamicaEGO
Online · Federal Universisty 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 Departament/Federal Universisty 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

📅 PARTICIPATION IN EVENTS

2025 — 8th Conference on Wind energy and Wildlife impacts (CWW 2025)
📍 Montpellier, France.

2024 — Wingspan Conference
📍 Brussels, Belgium.

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.

💻 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.

💻 RESUMOS EM CONGRESSOS

2025 • Mapping avian sensitivity in a seemingly homogeneous desert landscape: A case study from Egypt
Arbo-Meneses, B.; Biasotto, L.; Clark, B.; Mohamed, K.; Sherif, N.; Sanghera, S.; Auchincloss, C.; Allinson, T.

8th Conference on Wind energy and Wildlife impacts (CWW 2025) - Oral presentation

2025 • Bird sensitivity index at onshore wind farms: a novel trait-based approach to identify priority species. (Oral presentation)
Biasotto, L.; Arbo-Meneses, B.; Sanghera, S.; Clark, B.; Auchincloss, C.; Allinson, T.

8th Conference on Wind energy and Wildlife impacts (CWW 2025) - Oral presentation

2025

Innovative data integration for mapping avian sensitivity to offshore wind

Clark, B.; Auchincloss, C.; Biasotto, L.; Arbo-Meneses, B.; Sanghera, S.;, Vulcano, A.; Celada, C.; Gaibani, G.; Gustin, M.; Maurer, G.; Maguire, G.; Ehmke, G.; Kim, Y.; Allinson, T.

8th Conference on Wind energy and Wildlife impacts (CWW 2025)

2024

AVISTEP: a sensitivity mapping tool to improve bird conservation in energy planning

Arbo-Meneses, B.; Biasotto, L.; Clark, B.; Allinson, T.

Wingspan 2024: Partnerships for a bird-friendly energy transition - Oral presentation

2016

Is environmental pressure on watersheds related to the ichthyofauna of streams?

Meneses, B.A.; Dala-Corte, R.B.; Guimarães, T.F.R.; Becker, F.G.

1° Reunião da ABECO e 5° Simpósio de Ecologia Teórica, Gramado.

2015

Definition of ecological corridors as a strategy to protect important remnants of wetlands and conservation of the marsh deer (*Blastocerus dichotomus*) in Rio Grande do Sul

Krob, A.; Meneses, B.A.; Castilho, C.S.; Ximenes, S.; Kindel, A.; Mahler Jr., J.K.

VIII Congresso Brasileiro de Unidades de Conservação, Curitiba. Anais do VIII Congresso Brasileiro de Unidades de Conservação.

2013

A preliminary assessment of the fragmentation of brazilian hydrographic systems and implications for the conservation of ichthiofauna

Becker, F.G.; Meneses, B.A.; Brack, I.V.; Lopes, K.G.D.

XX Encontro Brasileiro de Ictiologia, Maringá. Resumos do XX Encontro Brasileiro de Ictiologia.

2013

Movements and distribution of migratory fish in an environment altered by a hydroelectric plant without a transposition system.

Fries, L.C.C.; Meneses, B.A.; Hahn, L.; Camara, L.F.; Becker, F.G.; Hartz, S.M.

XX Encontro Brasileiro de Ictiologia, Maringá. Resumos do XX Encontro Brasileiro de Ictiologia.

2012

Do national red lists induce priorization of research on endangered species? A case study on Brazilian vertebrates.

Guimarães, T.F.R.; Meneses, B.A.; Ayudos, B.B.; Blum, G.B.; Schuh, G.; Fonte, L.F.M.; Borges-Martins, M.; Kindel, A.; Guadagnin, D.L.; Becker, F.G.

40th Annual Meeting of the Association for Tropical Biology and Conservation, Bonito. Livro de Programação e Resumos.

2012

Wetlands connectivity of wetlands using the marsh deer as a target species: an experience in Rio Grande do Sul

Meneses, B.A.; Castilho, C.S.; Ximenes, S.; Mahler Jr., J.K.; Kindel, A.; Krob, A.

II Congresso Brasileiro de Ecologia de Paisagens, Salvador. Anais II Congresso Brasileiro de Ecologia de Paisagens.

2011

Spatial distribution model of an endangered stream fish as a tool for conservation status assessment.

Meneses, B.A.; Guimarães, T.F.R.; Becker, F.G.

XIX Encontro Brasileiro de Ictiologia, Manaus. Livro de Programação e Resumos.

2010

Spatial distribution model of an endangered stream fish (*Mimagoniates rheocharis*, Characidae)

Meneses, B.A.; Becker, F.G.

XXII Salão de Iniciação Científica da UFRGS, Porto Alegre. Resumos XXII Salão de Iniciação Científica da UFRGS.