



LUCIANA FRAZÃO LUIZ

PROFILE

I am a Brazilian forward-thinking Ph.D. with a background in Biodiversity and Conservation, and Community Ecology. My professional experience includes elaboration of strategic plans to protected threatened species and consultancy for mining companies to avoid risks to the environment. My assignments include the identification and valuation of Ecosystem Services, and elaboration of Critical Habitat Assessment, Cumulative Impact Assessment, and Biodiversity Action Plan, following IFC and Ecuador Principles standards. During my Master's and Ph.D. research, I investigated reptiles and amphibians as models to understand biodiversity distribution patterns using modeling tools (QGIS, MaxEnt, Kuenm), and as indicators of environmental quality. My experience also includes taxonomy, genetics, biogeography, and natural history of herpetofauna. I am interested in activities for scientific dissemination in a simple and accessible way, having experience in coordinating extension projects, seeking partnerships for the development of applications for environmental education and scientific dissemination.

SOFT SKILLS

Strong team-work spirit;
Proactive; Independent; Pragmatic;
Good in data collection and organization; Good sense of humor.

INTERESTS

Scientific communication; Volunteer work; Photography.

CONTACT

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Linkedin:

<https://www.linkedin.com/in/luciana-frazao-15111091/>

ResearchGate:

https://www.researchgate.net/profile/Luciana_Frazao3

EDUCATION

The BIONORTE network for biodiversity and biotechnology research in the Brazilian Amazon states, State of Amazonas, Brazil: 2015 - 2019

Ph.D. degree: Biodiversity and Conservation. Advisors: Dr. Tomas Hrbek and Dr. Igor Kaefer.

Thesis: Diversity and potential distribution of snake assemblages in the Brazilian Amazonia.

Chapter 1: Species richness and composition of snake assemblages in poorly accessible areas in the Brazilian Amazonia.

Chapter 2: Vegetation and precipitation regulate the distribution of snakes in the Amazonia.

Chapter 3: Estimating cryptic diversity of snakes in the Amazonia using expanded phylogenies based on biogeographic models.

Emílio Goeldi Museum / Federal University of Pará, State of Pará, Brazil: 2010 - 2012

Master's degree: Zoology. Advisors: Dr. Selvino Neckel and Dr. Felipe Contrera

Dissertation: Diet, use area and transport of tadpoles of *Ameerega trivittata* (SPIX, 1824) (ANURA: DENDROBATIDAE) in a region of terra firma forest in the Eastern Amazon.

Federal University of Amazonas, State of Amazonas, Brasil: 2005 - 2009

Bachelor's degree: Ecology and Conservation. Advisors: Dr. Marcelo Menin and Dra. Ermelinda Oliveira

Monograph: Distribution of lizards and snakes (Reptilia: Squamata) associated with aquatic environments on the campus of the Federal University of Amazonas, Manaus, Amazonas.

WORK EXPERIENCE

Chico Mendes Institute for Biodiversity Conservation – ICMBio/CEPAM – Scientific Researcher: 2020 - current

I performed planning and implementation of national action plans for the conservation of threatened species in the Amazon with focus on fishes and lizards, as part of the "ESTRATÉGIA NACIONAL PARA A CONSERVAÇÃO DE ESPÉCIES AMEAÇADAS - GEF PRÓ-ESPÉCIES". I was also responsible to organize and mediate presential and on-line meetings with different experts that collaborated with the National Action Plans.

Acorn International – Environmental Consultant: 2020 - current

I carried out Environmental International Risk Management for a mining company in Amazonia. My responsibilities were identification and valuation Ecosystem Services, elaboration of Critical Habitat Assessment, Cumulative impact Assessment, and Biodiversity Action Plan, following to international standards (including IFC Performance Standard 6 and Ecuador Principles). In this project, I was also responsible for engaging with different stakeholders, including traditional communities (Quilombolas and Riverside communities).

Federal University of Amazonas - Scientific Researcher: 2008 - 2020

I performed monitoring of wild fauna of vertebrates in an urban forest fragment and fauna survey in remote areas along the Amazon River and its tributaries by the BioPHAM Project. I was also responsible for:

- ♦ Teach Ecology classes for graduate students.
- ♦ Structuring of biodiversity conservation projects;
- ♦ Organization and planning of field expeditions.

RESEACHER PROJECTS

2015-2019 - Diversity and potential distribution of snake assemblages in the Amazon (Process N. 018/2015).

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2014-2015 - Collection, identification and characterization of tadpoles in the Central Amazon (Process N. 009/2013).

2011-2014 - Research network for expanding knowledge about vertebrate biodiversity in the Brazilian Amazon with applications on its use and conservation (BioPHAM Project).

2008-2009 - Herpetofauna associated with aquatic environments in upland forests in Central Amazonia: subsidies for the identification of bioindicator species (Process N. 111253/2008-0).

RECENT TRAINING AND EVENTS

2021 – IUCN Red List Assessment (Course)

2021 - Ecosystem Services: A Method for Sustainable Development (Course)

2021 – Managing E&S Performance (Course)

2020 - Scientific Committee of the XI Research Seminar and XII Scientific Initiation Meeting of ICMBio - Challenges facing the COVID-19 Pandemic (Participation)

2020 - III Iberoamerican Congress on Biodiversity and Road Infrastructure (Event)

2020 – Member of the Brazilian Association for Ecological Science and Conservation (Participation)

2020 - II Workshop of Community Ecology (Event)

2020 – Introduction to Scientific Dissemination (Course)

2019 - Introduction to Management Plans in Conservation Units

PUBLICATIONS

2021 – New records of the Horned toad (*Rhinella ceratophrys*): filling distribution gaps in lowland forests in the Brazilian Amazon. Journal: Herpetology Notes.

Link: <https://www.biotaxa.org/hn/article/view/63902>

2021 - Phylogenetic relationships of the poorly known treefrog *Boana hobbsi* (Cochran & Goin, 1970) (Anura: Hylidae), systematic implications and remarks on morphological variations and geographic distribution. Journal: Zootaxa.

Link: <https://doi.org/10.11646/zootaxa.4933.3.1>

2021 – The third consecutive year of Save the Frogs Day in the Brazilian Amazon and the experience of working with environmental education. Journal: FrogLog.

Link: https://www.amphibians.org/wp-content/uploads/2021/02/FrogLog122_high.pdf?fbclid=IwAR1UWOhTLo0rrHzlKj3WqBDsF8mhGihCBO9CCeqXcHhjEoc447dTI_cexhc

2020 - Effect of environmental parameters on squamate reptiles in an urban forest fragment in central Amazonia. Journal: Acta Amazonica

Link: <https://doi.org/10.1590/1809-4392201904423>

2020 - Species richness and composition of snake assemblages in poorly accessible areas in the Brazilian Amazonia. Journal: Biota Neotropica.

Link: <https://doi.org/10.1590/1676-0611-bn-2018-0661>

2019 - Food habits of *Rhinella proboscidea* (Anura: Bufonidae) in terra firme forests of central Amazonia. Journal: Phyllomedusa.

Link: <https://doi.org/10.11606/issn.2316-9079.v18i1p37-46>

2019 - The diet of *Chiasmocleis hudsoni* and *C. shudikarensis* (Anura, Microhylidae) of terra firme forests in the Brazilian Amazonia. Journal: Herpetology Notes

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Link: <https://www.biotaxa.org/hn/article/view/48372>

2017 - New record and revised distribution map of *Pseudoboa martinsi* Zaher et al., 2008 (Serpentes: Colubridae: Dipsadinae) in the state of Amazonas, Brazil. Journal: Herpetology Notes.

Link: <https://www.biotaxa.org/hn/article/view/28441>

2017 - Multiple strategies for revealing the amazonian amphibians: Environmental education and conservation actions in amazonian forest. Journal: FrogLog.

Link:

https://issuu.com/amphibiansdotorg/docs/fl118_high_93b3ca639b6cf5

2015 - On the Discovery of Bisexual Populations of the Parthenogenetic Lizard *Leposoma percarinatum* (Gymnophthalmidae), with Insights into the Origin of Parthenogenesis in *Leposoma*. Journal: South American Journal of Herpetology.

Link: <https://doi.org/10.2994/SAJH-D-14-00025.1>

2015 - Diet and tadpole transportation in the poison dart frog *Ameerega trivittata* (Anura, Dendrobatidae). Journal: Herpetological Journal.

Link: <https://www.thebhs.org/publications/the-herpetological-journal/volume-25-number-3-july-2015/789-09-diet-and-tadpole-transportation-in-the-poison-dart-frog-i-ameerega-trivittata-i-anura-dendrobatidae/file>

2014 - Lizards from central Jatapú River, Amazonas, Brazil.

Journal: Check List

Link: <https://www.biotaxa.org/cl/article/view/10.1.46>

ENVIRONMENTAL EDUCATION ACTIVITIES

Amazon Animal: 2019 – 2020

I write periodic texts as a columnist for the Portal Amazônia website, in order to disseminate scientific knowledge to the general population.

Link in portuguese: portalamazonia.com/amazonia-animal

Olha a cobra – Brazil: 2018 - 2020

Olha a Cobra is a teaching project that seeks to demystify the Herpetofauna group. For this, I used digital media (Facebook and Instagram) to generate quality content, establishing partnerships with researchers specialized in the group and focusing on Herpetofauna in the Amazon.

Link: https://www.instagram.com/olha_a_cobra/

Venomous animals: Who is afraid of them?: 2017 – 2018

Considering the local cultural knowledge about venomous animals, this project aimed to promote the understanding of the role that these animals play in the environment, in order to stimulate creativity and interest to acquire a more conscious and participatory look at the conservation of Amazonian species.

TECHNICAL PRODUCTION (SOFTWARES)

2018 – Sing Frogs - <http://bit.ly/qualeosapo>

TELES, Sylker; FRAZÃO, Luciana; ALMEIDA, Alexandre - Game whose objective is to know the species of frogs that occur in the Manaus region through vocalization and photographs.

2018 – AnimAR - <http://bit.ly/olhaobicho>

TELES, Sylker; FRAZÃO, Luciana - Game that uses augmented reality so that students can interact with virtual animals.

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ACADEMIC ADVISORY

2020 – current - Flavio Fabian Costa Magalhães, Phylogeography and genetics of *Anilius scytale* populations in the Amazon region – Master's degree.

2019 - Francisca Juçara Cavalcante de Aragão. Environmental education to demystify frogs and snakes in a public school in Manaus – Graduation.

2018 - Daniela de Souza Leite. Variability of the mitochondrial cytochrome b gene for identification of different strains of the northern jararaca (Serpentes: *Bothrops atrox*) – Graduation.

2018 - Calleb Gama. Helminth fauna associated with two snake species of medical interest *Bothrops atrox* and *Bothrops bilineatus* in the Brazilian Amazon – Graduation.

2018 - Vinícius Marques de Lima. Characterization of the reproductive cycle of females of the Suaçubóia snake, *Corallus hortulanus* (SERPENTES, BOIDAE) in the Amazon – Graduation.

2016 - Karoline Araújo Viana. Helminthofauna associated with Jararaca-da-Amazônia (*Bothrops atrox*) in different locations in northern Brazil. Orientation of another nature – Graduation.

2016 - Francisca Juçara Cavalcante de Aragão. Helminthofauna associated with Jararaca-da-Amazônia (*Bothrops atrox*) in different locations in northern Brazil. Orientation of another nature – Graduation.

LANGUAGES

Portuguese – Native

English – Advanced (CEFR Level C1)

I can communicate easily and spontaneously in a understandable manner.