

Izabela M. Barata

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EDUCATION

2006-2008

Catholic University of Minas Gerais

Master in Vertebrate Zoology

I conducted a research on island biogeography in a reservoir created by a hydroelectric dam evaluating the effects of flooding on anuran species richness and community composition.

2002-2005

Catholic University of Minas Gerais

Bachelor in Biology

I worked with amphibian ecology and developed a research on ecological requirements of tadpoles for microhabitat selection.

EMPLOYMENT HISTORY

2009 - Present

Instituto Biotrópicos

Research Scientist

My duties involve writing projects, searching for funding and coordinating research focusing amphibian ecology, monitoring and conservation.

2009 – 2011

Federal University of the Valleys Jequitinhonha and Mucuri

Assistant Professor: vertebrate zoology

I had a teaching experience during three years. I was also responsible for research projects, educational guidance for students, and maintenance of the vertebrate zoological collection.

RESEARCH EXPERIENCE

Recent on-going projects

2012 – Present

The effects of climate change on a new mountaintop species from the Espinhaço Range

Project Leader

The overall goal of this project is to develop and implement a long-term monitoring program to evaluate the effects of climate change on known populations of *Crossodactylodes* sp. nov. and address conservation priorities focusing mountaintops species and highland ecosystems within the Espinhaço Range. This is an initial project and I have collected data on temporal and spatial distribution of the new species and I have selected and marked sample site for future monitoring.

2011 – Present

Long-term monitoring program at Carinhanha River, North Minas Gerais

Project Leader

The overall goal of this project is to design a long-term monitoring protocol based on occupancy analysis to assess trends on anurans populations at riverside lakes. This unique ecosystem is formed by multiple sized lakes nestled along the Carinhanha River which are

seasonally flooded when the water level overflows to adjacent lakes. Data is being collected for analysis and the protocol will be finished on March 2013.

2009 – Present

Salvem os Sapos! – An educational program for amphibian conservation

Project Leader

The overall goal of the project is to improve environmental knowledge and get people to know amphibians. Awareness-raising activities are developed at local school in several municipalities in the state of Minas Gerais. Students of all ages participate of a question game and learn curiosities about amphibians. Numbers of species richness, endemism and extinctions are presented and they learn how they can help nature and collaborate to amphibian conservation. An art contest is made after the game and children draw the most curious fact they have learn. Draws are exposed during a three-day exhibition on local museums and other public locations. So far the activities involved 1750 students and more than 1200 draws were produced. Annual exhibitions achieved large numbers since the first edition: more than 2000 visitors have learned a little bit more about amphibians.

Latest Research Projects

- Analysis of field guides for amphibian identification (2011-2012).
- Protected areas network efficiency and scientific knowledge for amphibian conservation in the Cerrado of southeastern Brazil (2009-2011).
- The influence of altitudinal gradient on anuran species richness at Itambé State Park, South Espinhaço Range (2009-2011).
- Microhabitat selection and patterns of distribution within an anuran assemblage in southeastern Brazil (2009-2011).
- Amphibians at South Espinhaço Range: the contribution of the Mosaic of Protected Areas to species richness and conservation (2009-2011).
- Species inventories at priority areas of Minas Gerais State. (2009-2012).
- Anuran species richness and community composition after a 50-year dam flooding in Southeast Brazil. (2006-2008).
- Density compensation on isolated anuran assemblages at land-bridge islands. (2006-2008).
- Ecological assessment of amphibian requirements and microhabitat selection. (2002-2005).

LANGUAGES

Fluent in Portuguese and English. Speaks and reads in Spanish.

PERSONAL DETAILS

Date of Birth: May 26, 1984

Place of Birth: Foz do Iguaçu, Paraná

Nationality: Brazilian

Interests: I enjoy reading books as a pastime. I also like photography, traveling and hiking.

LIST OF PUBLICATIONS

Barata, I.M., Santos, M.T.T., Leite, F.S.F. and Garcia, P.C.A. (2012) A new species of *Crossodactylodes* (Anura: Cycloramphidae) from Minas Gerais, Brazil: first record of genus within Espinhaço Range. Submitted to ***Zootaxa***.

Ferreira, G. B. and Barata, I. M. (2011) Programa de diagnóstico e monitoramento da biodiversidade na região do Mosaico de UC do Espinhaço: Serra do Cabral e Alto Jequitinhonha e do Mosaico de UC Sertão Veredas-Peruaçu. *Research Report*.

Ferreira, G. B. ; Barata, I. M. ; Soares, M. and Mafia, P. (2011) Levantamento de espécies de vertebrados no Parque Nacional das sempre-Vivas. *Research Report*.

Barata, I. M. (2010) Anfíbios anuros da RPPN Porto Cajueiro: diretrizes para manejo da unidade e conservação das espécies. *Research Report*.

Eterovick P.C., Rievers C.R., Kopp K., Wachlevski M., Franco B.P., Dias C.J., Barata I.M., Ferreira A.D.M. and Afonso L.G. (2010) Lack of phylogenetic signal in the variation in anuran microhabitat use in southeastern Brazil. ***Evolutionary Ecology*** 24:1–24.

Azevedo, A. A., Silva, J. A., Ferreira, G. B., Barata, I. M., Almeida, T. E. and Souza, D. T. (2008) Identificação de Oportunidades de Conservação na Reserva da Biosfera da Serra do Espinhaço, Minas Gerais. *Technical Report*.

Eterovick P.C. and Barata I.M. (2006) Distribution of tadpoles within and among Brazilian streams: the influence of predators, habitat size and heterogeneity. ***Herpetologica*** 62:367–379.