

# RUBEM DORNAS

## Biologist with geoprocessing and programming background

Lic. and BSc. Biologist graduated from Federal University of Minas Gerais (Brazil) with specialization in Geoprocessing from Pontifícia Universidade Católica de Minas Gerais (Brazil) and master's degree in Analysis and Modeling of Environmental Systems from UFMG. Author and reviewer of several technical and scientific publications on environmental issues. Skilled in data analysis, writing reports and project design. For more than ten years, I'm working in environmental consulting activities in renowned regional and worldwide companies.



## EDUCATION

2003  
|  
2007

### Universidade Federal de Minas Gerais

Lic. in Biological Sciences

📍 Belo Horizonte, Brazil

Thesis: Peculiarities, curiosities and myths of birds as a tool for basic teaching of Ornithology (in Portuguese)

2008  
|  
2010

### Universidade Federal de Minas Gerais

BSc. in Biological Sciences - Vertebrates' Zoology

📍 Belo Horizonte, Brazil

Thesis: Study of wild vertebrates road-kills on Serra do Rola-Moça State Park, Minas Gerais (in Portuguese)

2016  
|  
2018

### Pontifícia Universidade Católica de Minas Gerais

Specialization in Geoprocessing

📍 Belo Horizonte, Brazil

Thesis: Geoprocessing applied to the environment area: a case study based on quantitative methods of spatial analysis (in Portuguese)

2017  
|  
2019

### Universidade Federal de Minas Gerais

MSc. in Analysis and Modeling of Environmental Systems

📍 Belo Horizonte, Brazil

Thesis: Estimations and temporal and spatial patterns of fatalities Cane toads (*Rhinella gr. marina*) on Brazilian Amazonian railroad (in Portuguese)

## PROFESSIONAL EXPERIENCE (LAST 3)

Current  
|  
2020

### Biologist / Project Manager

AECOM

📍 Belo Horizonte, Brazil

- Involved in auditing of minings tailings dams.
- Creation, development and maintenance of a new technological platform for

- controlling audits recommendations.
- Production of reports and presentations.

## CONTACT INFO

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🐙 [github.com/rdornas](https://github.com/rdornas)

☎ +1 (352) 709-0128

For more information, please contact me via email.

## SKILLS

Experienced in field biology and ecology, specially concerning wildlife and road/railroad ecology.

Highly skilled in R (mainly tidyverse, RMarkdown and Shiny), and Ruby on Rails.

Experienced with geoprocessing (vector data), including programming geoprocessing in R with `sf` package.

*Last updated on Aug 22, 2022.*

2020

## Data Scientist

Amplo Engenharia e Gestão de Projetos

📍 Belo Horizonte, Brazil

- Planning and elaboration of digital forms for field data collection
- Planning and elaboration of computational scripts and
- packages in R for extracting and including information in relational databases
- Data analysis and report writing

2011

2017

## Biologist

Amplo Engenharia e Gestão de Projetos

📍 Belo Horizonte, Brazil

- Member of the technical and coordination teams concerning several environmental studies related to mining and transportation.
- Responsible for the fauna studies needed to the expansion of Estrada de Ferro Carajás (EFC), under concession by Vale S.A.
- Responsible for presentations on behalf of the company to different audiences



## SELECTED PUBLICATIONS

2020

### The need to consider searcher efficiency and carcass persistence in railway wildlife fatality studies.

Eur. J. Wildl. Res. 66:81. [doi](#)

Dasoler BT, Kindel A, Beduschi J, Biasotto LD, **Dornas RAP**, Gonçalves LO, Lombardi PM, Menger T, de Oliveira GS & Teixeira FZ.

2019

### Strain by the train: Patterns of toad fatalities on a Brazilian Amazonian railroad.

Sci. Total Environ., 660:493-500. [doi](#)

**Dornas RAP**, Teixeira FZ, Gonsioroski G & Nóbrega RAN.

2018

### On a collision course: the vulnerability of bats to roadkills in Brazil.

Mastozool. Neotrop. 25(1):115-128. [doi](#)

Novaes RLM, Laurindo RS, **Dornas RAP**, Esbérard CAL & Bueno C.

2017

### Record of the Giant Otter, *Pteronura brasiliensis* (Zimmermann, 1780), (Carnivora: Mustelidae) in a fragmented landscape of Maranhão state, Brazil.

Checklist 13(1):2041. [doi](#)

Prist PR, **Dornas RAP**, Dos Santos RH, Torres LGC & Lima ELP.