CARLOS FREDERICO VASCONCELOS

DATA SCIENTIST

Description

I have a degree in Biological Sciences from the Federal University of Paraíba (2009-2013) and a Master's degree in Ecology from the University of São Paulo (2014-2016).

I have 7 years of experience in data analysis and knowledge in R, Python and SQL.

Skills

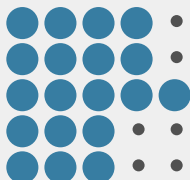### Languages

Postuguese
Spanish
English

Programming

R
Python
SQL

Software

Power BI
Metabase
MS Office
Illustrator
Figma

Contact

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in https://www.linkedin.com/in/carlos-frederico-vasconcelos-858897263/

Work Experience

Business Intelligence Analytic

GSA Alimentos | June 2023 - July 2023

Project for the elaboration of a data visualization model in associated companies. Using the CRISP-DM methodology, Power BI software and Power Query programming languages R and M. The objective of this work is to optimize the industrial and/or administrative processes of the company. In addition, a written report will be prepared with a detailed descriptive analysis of the data, with the purpose of obtaining greater depth and generating ideas from the data provided by the company. In addition, the creation of control panels through Power BI will allow obtaining and viewing data in real time, which will contribute to better management of the production process and other indicators of success proposed by the company.

Scientific Consultant

Ad-hoc | 2022 - Present

As a freelance research consultant, I play a fundamental role in the development of research projects, providing advice and expertise in the methodological preparation of the studies. This implies the definition of the research objectives, the selection and design of the most appropriate data collection techniques and tools, as well as the planning of the procedures and protocols to follow.

Additionally, my role encompasses the analysis of data collected during research, using advanced statistical methodologies to examine and understand the data, identify significant patterns, relationships, and trends. This stage includes the application of descriptive and inferential analysis techniques, as well as data modeling and the use of automatic learning tools (Machine Learning) in the programming language R and Python.

Once the analysis is complete, I play an active role in writing and discussing the results. I make sure that the findings are communicated in a clear, precise and objective manner, following established scientific conventions. In addition, I participate in the interpretation of the results, facilitating their understanding and offering pertinent recommendations. My main objective is to provide researchers with a solid and reliable foundation for making informed decisions and generating significant knowledge in their respective areas of study.

Scientific Researcher

Mamiraua Sustainable Development Institute, Tefe, Brazil| 2017 - 2023

- Project coordination: I have been responsible for writing financing proposals, managing the budget, acquiring equipment and preparing progress reports.
- Field data collection: I have carried out environmental and ecological data collection in rural communities in the Brazilian Amazon. In addition, I was in charge of the coordination and training of the members of these communities to carry out the research activities.
- Data analysis: I have experience handling descriptive statistics, data modeling, and developing Machine Learning models using programming languages such as R and Python.
- Scientific writing: I have written scientific articles, book chapters and technical reports in the field of my specialization.
- Student Guidance: I have provided research guidance to high school, undergraduate, and graduate students.
- Organization of events: I have participated in the organization of various events related to research, where I was in charge of planning, logistical coordination and execution.
- Preparation of technical-educational material for extension projects with children: I have developed didactic and educational material adapted to extension projects aimed at children, with the aim of promoting their learning and active participation in environmental conservation issues.

Field Biologist Consultant

Naturae Consultoria Ambiental, Altamira, Brazil | 2019 - 2019

I carried out data collection tasks in the field to monitor medium and large sized mammals in the area of influence of the Belo Monte hydroelectric power plant, in Brazil. To carry out this monitoring, I implemented a methodology based on linear transects and used cameras as the main tool.

During the data collection process, I traveled predefined routes, recording the presence and activity of mammals along the transects. I used strategically placed cameras to capture images of the animals in their natural environment. These images were subsequently analyzed and processed to identify and catalog the detected species, as well as to assess the abundance and distribution of mammals in the study area.

Academic Assistant
University of Sao Paulo, Sao Paulo, Brazil| 2014 - 2016

During my master's degree, I played the role of monitor in the subjects of Human Ecology and Environment. As a monitor, I assumed the responsibility of teaching classes, correcting exercises and exams, and providing academic support to students. My work consisted of facilitating learning and promoting the understanding of the key concepts of these subjects, through the preparation and presentation of didactic material, the resolution of doubts and individualized guidance when required.

In addition, I had the opportunity to collaborate with the teachers in the design of activities and evaluations, ensuring their consistency with the established educational objectives. As a monitor, I also encouraged the active participation of the students in the development of the class, stimulating debate and critical reflection on the topics covered. This experience allowed me to strengthen my pedagogical and communication skills, as well as acquire a deeper understanding of educational content and methodologies related to Human Ecology and the Environment.

Education

Master in Ecology of Aquatic and Terrestrial Ecosystems
University of Sao Paulo, Sao Paulo, Brazil | 2014 - 2016

Degree in Biological Sciences
Federal University of Paraiba, Areia, Brazil | 2009 - 2013

Complementary Education

2023 - 2023	**ANALYSIS AND PROCESSING OF DATA WITH PYTHON**	
	Escola DNC, Sao Paulo, Brazil	
2023 - 2023	**SQL FOR DATA SCIENCE**	
	Escola DNC, Sao Paulo, Brazil	
2023 - 2023	**SCRUM FUNDAMENTALS**	
	Escola DNC, Sao Paulo, Brazil	
2023 - 2023	**DATA ANALYSIS WITH EXCEL AND POWER BI**	
	Escola DNC, Sao Paulo, Brazil	
2023 - 2023	**MARKET INTELLIGENCE**	
	Escola DNC, Sao Paulo, Brazil	

Premios

Hackaton - Escola DNC (2023)

I got third place in the hackathon challenge to select the best students of Escola DNC.

During this challenge, I actively participated in the competition, demonstrating my skills and knowledge in Data Science.

Scientific Publications

FOOD BIODIVERSITY AS AN OPPORTUNITY TO ADDRESS THE CHALLENGE OF IMPROVING HUMAN DIETS AND FOOD SECURITY

Michelle Cristine Medeiros Jacob, Alice Medeiros Souza, Aline Martins de Carvalho, Carlos Frederico Alves de Vasconcelos Neto, et al. | 2023
DOI: https://doi.org/10.15451/ec2023-02-12.05-1-14

CARNE DE CAÇA, COVID-19 E SEGURANÇA ALIMENTAR NO MUNICÍPIO DE ABAETETUBA, AMAZÔNIA PARAENSE

Tayara Costa, Deise Oliveira, Carlos Frederico Vasconcelos-Neto, Pedro Mayor, Dídac Santos-Fita | 2022
DOI:
https://www.revistaetnobiologia.mx/index.php/etno/article/view/520/473

WILD MEAT TRADE OVER THE LAST 45 YEARS IN THE PERUVIAN AMAZON

Pedro Mayor, Hani R. El Bizri, Thais Q. Morcatty, Kelly Moya, Nora Bendayán, Samantha Solis, Carlos F. A. Vasconcelos Neto, et al | 2021
DOI: http://dx.doi.org/10.1111/cobi.13801d

SOCIAL CORRELATES OF AND REASONS FOR PRIMATE MEAT CONSUMPTION IN CENTRAL AMAZONIA

Lísley Pereira Lemos, Luiz Francisco Loureiro, Thais Queiroz Morcatty, Julia E. Fa, Carlos Frederico Alves de Vasconcelos Neto, et al | 2021
DOI: https://doi.org/10.1007/s10764-021-00214-6

SOCIAL AND BIOLOGICAL CORRELATES OF WILD MEAT CONSUMPTION AND TRADE BY RURAL COMMUNITIES IN THE JUTAÍ RIVER BASIN, CENTRAL AMAZONIA

Hani R. El Bizri, Thaís Q. Morcatty, José C. Ferreira, Pedro Mayor, Carlos F. A. Vasconcelos Neto, et al | 2020
DOI: http://dx.doi.org/10.2993/0278-0771-40.2.183

INVOLVING LOCAL COMMUNITIES FOR EFFECTIVE CITIZEN SCIENCE: DETERMINING GAME SPECIES' REPRODUCTIVE STATUS TO ASSESS HUNTING EFFECTS IN TROPICAL FORESTS

Hani R. El Bizri, Julia E. Fa, Lísley P. Lemos, João V. Campos-Silva, Carlos F. A. Vasconcelos Neto, et al | 2020
DOI: https://doi.org/10.1111/1365-2664.13633

URBAN WILD MEAT CONSUMPTION AND TRADE IN CENTRAL AMAZONIA

Hani R. El Bizri, Thaís Q. Morcatty, João Valsecchi, Pedro Mayor, Jéssica E. S. Ribeiro, Carlos F. A. Vasconcelos Neto, et al | 2019