

# MARCIA CABRAL

Data science, Statistics Modeling, Research practices



## WORK EXPERIENCE

04.2022  
– Present

### Data Scientist

NielsenIQ

📍 Sofia, Bulgaria

- Support the development of new/improved methodologies (e.g. data interpretation, representation/ sampling, bias reduction, indirect estimation, data integration, automation, data validation).
- Help qualify the business and product initiatives by identifying the needs of the clients and matching them to the appropriate methodology
- Support documentation of findings, methodologies, and best practices.

05.2021–  
03.2022

### Technical Support Specialist

Telus International Bulgaria

📍 Sofia, Bulgaria

- Provide technical support, to business clients (B2B), from a big cloud company.
- Develop a broad understanding of customer's situation by reviewing, reproducing and troubleshooting possible root causes of customer's queries.

06.2019–  
06.2020

### Extracurricular Activities Teacher

Tempos Brilhantes Association

📍 Aveiro, Portugal

- Extracurricular support activities in schools of Aveiro, with children from different social realities.
- Teaching and play about respect and citizenship with a focus also on environmental aspects and arts.

02.2014–  
12.2019

### Collaborative Researcher

University of Aveiro - UA

📍 Aveiro, Portugal

- Gather and analysis of spatial data from three endangered semi-aquatic mammals *Pteronura brasiliensis*, *Lutra lutra* and *Galemys pirenais* in hydroelectric lakes in Brazilian Amazon and in Northern Portugal.
- Demonstrated uses of R Notebooks for biological research

10.2013–  
01.2014

### Project Analyst

Research Support Foundation of the State of Amazonas - FAPEAM

📍 Manaus, Brazil

- Monitoring relevant processes to activities performed in the action lines of Science, Technology and Innovation - CT&I.
- Control and organize the relevant administrative processes to the activities performed in each area of organization.



Coffee addict specializing in statistical modeling, research practices and teaching. On the market for data science and researching positions.

## CONTACT INFO

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in [linkedin.com/in/marcia-cabral](https://www.linkedin.com/in/marcia-cabral)

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📞 +351 961465268

## SKILLS

Multivariate data analysis

Expert in R and R Studio

Expert in communicating to scientific and general public

Some Python and SQL

01.2010–  
10.2011

### Junior Researcher

Associação Amigos do Peixe-boi / Friends of the Amazon manatee Association - AMPA (NGO)

📍 Manaus, Brazil

- Monitoring by telemetry in order to get a comprehensive view of habitat use from *Pteronura brasiliensis* in a hydroelectric lake in Brazilian Amazon.
- Gathering and analysis of spatial and behavior data.
- Management of volunteers in the field.
- Technical and financial reports.

01.2005–  
09.2013

### Assistant Researcher

National Amazon Research Institute - INPA (Giant Otter Project)

📍 Manaus, Brazil

- Monitoring by telemetry in order to get a comprehensive view use of habitat from *Pteronura brasiliensis* in a hydroelectric lake in Brazilian Amazon.
- Gathering and analysis of spatial and behavior data.



## EDUCATION

2010–  
2012

### National Amazon Research Institute - INPA

M.S. in Management of Protected Areas in Amazon

📍 Manaus, AM, Brazil

Thesis: Understanding of riparian areas relative to giant otters (*Pteronura brasiliensis*) and the management of two distinct categories of Protected Areas in the Brazilian Amazon

2001–  
2004

### University Center of the North - UNINORTE

B.Sc. in Biology

📍 Manaus, AM, Brazil

Thesis: Behavioral study of a cubs Amazonian manatee *Trichechus inunguis* (Sirenia: Trichechidae) under captive conditions



## CERTIFICATION

### Google Data Analytics Certificate

Coursera | Google

📍 April 2022

- Data aggregation, data analytics, data calculation, data cleaning, data ethics, data visualization, presentation, problem solving, R and RStudio, Spreadsheet, SQL, structured thinking
- Credential code 5ZB666ZHPXHB
- No expiration date



## RESEARCH EXPERIENCE

2014–  
2019


### Research Assistant in Biology and Ecology of Global Changes

Biology Department, University of Aveiro - UA  Aveiro, AV, Portugal

- Designed and carried out multiple field experiments in North of Portugal and the Brazilian Amazon
- Developed a strong understanding of spatial approaches to analyzing habitat use of three semi aquatic mammals
- Analyzed data using generalized linear mixed effects models

2005–  
2011

### Graduate Research Assistant

National Amazon Research Institute - INPA  Manaus, AM, Brazil

- Designed and conducted a multi-year field experiment
- Field team coordination and training
- Provided technical and financial reports



## SELECTED PUBLICATIONS

2021

### Giant otter behaviour in a mega-hydroelectric reservoir, Central Amazon, Brazil

Animal Biology (2021). [doi:10.1163/15707563-bja10060](https://doi.org/10.1163/15707563-bja10060)

CS Ramalheira, **MMM Cabral**, VMF da Silva, FCW Rosas

2015

### First record of jaguar predation on giant otter (*Pteronura brasiliensis*)

Animal Biology 65, 81–86 (2015). [doi:10.1163/15707563-00002461](https://doi.org/10.1163/15707563-00002461)

CS Ramalheira, BF Bozzetti, AD da Cruz, AF Palmeirim, **MMM Cabral**, FCW Rosas

2015

### Sleeping sites used by giant otters (*Pteronura brasiliensis*) in the balbina hydroelectric reservoir, central Brazilian Amazon

Aquatic Mammals 41, 143–148 (2015).

[doi:10.1578/AM.41.2.2015.143](https://doi.org/10.1578/AM.41.2.2015.143)

RCW Rosas, CS Ramalheira, BF Bozzetti, AF Palmeirim, AD da Cruz, DB Pathek, **MMM Cabral**

2011

### Tagging giant otters (*Pteronura brasiliensis*) (Carnivora, Mustelidae) for radio-telemetry studies

Aquatic Mammals 37(2), 208–212 (2011).

[doi:10.1578/AM.37.2.2011.208](https://doi.org/10.1578/AM.37.2.2011.208)

L Silveira, MM Furtado, FCW Rosas, LCLC Silva, **MMM Cabral**, NM Tórres, R Sollmann, A Kouba, ATA Jácomo

- 2010 **Feeding habits of giant otters *Pteronura brasiliensis* (Carnivora: Mustelidae) in the Balbina hydroelectric reservoir, central Brazilian Amazon**  
Zoologia 27(1), 47-53 (2010). doi:[10.1590/S1984-46702010000100008](https://doi.org/10.1590/S1984-46702010000100008)  
MMM Cabral, J Zuanon, GE de Mattos, FCW Rosas
- 2009 **Parental and alloparental care of giant otters (*Pteronura brasiliensis*) (Carnivora, mustelidae) in Balbina hydroelectric lake, Amazonas, Brazil**  
Zoologia 54(3), 919-924 (2009). doi:[10.1590/S1984-46702010000100008](https://doi.org/10.1590/S1984-46702010000100008)  
FCW Rosas, MMM Cabral, GE de Mattos, RE Silva
- 2007 **The use of hydroelectric lakes by giant otters *Pteronura brasiliensis*: Balbina lake in central Amazonia, Brazil**  
Oryx 41(4), 520-524 (2007). doi:[10.1017/S0030605307005121](https://doi.org/10.1017/S0030605307005121)  
FCW Rosas, GE de Mattos, MMM Cabral