

JOSÉ CRISTIANO FREITAS VIEIRA

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Nationality: Portuguese

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Passionate and innovative final-year PhD student in Aquatic Ecology from Portugal, dedicated to applied ecology and the transmission of knowledge. I am known for a creative mindset and an inexhaustible thirst for learning. I thrive in collaborative environments but am equally effective at working autonomously. Eager to contribute my expertise and enthusiasm to foster educational growth and environmental awareness.

EDUCATION AND CERTIFICATIONS

PHD STUDENT – UQAT | Rouyn-Noranda QC (Canada)

2022 – 2026

Project: Evaluation of the impacts of log-drive on boreal lakes and potential for rehabilitation

Relevant skills:

- Expertise in conducting fieldwork
- Proficiency in lab-based analysis
- Ability to design and implement experiments
- Ability to manage research projects
- Experience teaching undergraduate courses or mentoring junior researchers

MASTER STUDENT IN ECOLOGY AND ENVIRONMENTAL MANAGEMENT- UNIVERSITY OF LISBON| LISBON (Portugal)

2019 – 2022

Project: Development of Management Proposals for Offshore Marine Protected Areas

Relevant skills:

- Proficiency in conducting environmental impact assessments and ecological surveys
- Competence in conducting comprehensive literature reviews and synthesizing findings
- Understanding of environmental policies and regulations, and ability to analyze their impacts
- Experience in developing and implementing sustainability plans and conservation strategies

BACHELOR STUDENT IN BIOLOGY- UNIVERSITY OF MADEIRA| Madeira Island (Portugal)

2015 – 2019

Relevant skills:

- Strong analytical and problem-solving abilities
- Effective communication skills for explaining scientific concepts to diverse audiences
- Involvement in outreach activities to promote science education and awareness
- Familiarity with using laboratory equipment and maintaining lab safety protocols

TRANSVERSAL SKILLS COMMON TO THE EXPERIENCE

- Group management
 - Science popularization
 - Individual support
 - Communication support conception
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PROFESSIONAL EXPERIENCE

ENVIRONMENTAL CONSULTANT| Regional Directorate for Environment and Sea, Madeira Island Government(Portugal)

2024 – 2025

Project: Provision of services for the preparation of a document relating to the survey of the legal-administrative framework of two Marine Protected Areas - Madeira Tore and Great Meteor, within the scope of the MSP-OR Project.

Relevant skills:

- Expertise in analyzing and documenting legal and administrative frameworks for Marine Protected Areas (MPAs)
- Knowledge of environmental policies, regulations, and international conventions related to marine and coastal ecosystems
- Experience in Marine Spatial Planning, including the integration of ecological, social, and economic data to inform decision-making
- Proficiency in preparing comprehensive reports and documents that summarize findings and provide actionable recommendations
- Skills in developing and recommending policies and strategies for the management and conservation of marine protected areas

RESEARCH ASSISTANT| MARE-Madeira/ARDITI (Portugal)

2022 – 2022

Project: Ecological characterization of european eel (*Anguilla anguilla*) populations from Madeira Island, Portugal.

Relevant skills:

- Capture and handling of individuals in the study areas
- Recording and analysis of the physical parameters of the organisms
- Recording and analysis of biochemical and ecological data of the surrounding environment

INTERN| Directorate-General for Natural Resources, Safety and Maritime Services (Portugal)

2021 – 2022

Project: Development of management proposal for offshore marine protected areas

Relevant skills:

- Analysis of scientific and legislative literature
- Development of management proposals for marine protected areas

INTERN| Marine Biology Station of Funchal (Portugal)

2019 – 2019

Project: Development of a survey to evaluate the variability of ventral colour in 2-4 populations of *Lacerta dugesii*

Relevant skills:

- Development of non-invasive sampling strategies
- Handling of individuals, to register physical data (length, sex, head size, ventral colour)
- Data registration, in Microsoft Excel, and analysis, using R project
- Obtention of biological samples

INTERN| Isoplexis-University of Madeira (Portugal)

2019 – 2019

Project: Identification of insects that damage agricultural cultures with particular emphasis on species like *Ceratitis capitata*, *Cosmopolites sordidus* and several species of the Drosophilidae family, especially *Drosophila suzukii*

Relevant skills:

- Analysis of biological samples
- Identification of species contained in field traps
- Realization of laboratory tasks (Using, cleaning and maintaining various types of equipment; handling and storing chemicals and other materials)

LANGUAGE SKILLS

- Mother language: Portuguese
- Other language(s):

- English**

- LISTENING C1 READING C1 WRITING C1**

- SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

- Spanish**

- LISTENING A2 READING A2 WRITING A1**

- SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2**

- French**

- LISTENING A2 READING A2 WRITING A2**

- SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2**

ADVANCED FORMATIONS

IDENTIFICATION OF QUEBEC FRESHWATER FISH

2023

Description: The course focuses on identifying easily recognizable species, addressing common identification issues, and understanding sexual dimorphism, coloration, and invasive species. It is particularly designed for biologists and professionals specializing in fish identification and inventories in Quebec.

PREVENTION AND CONTROL OF LEGIONELLA IN WATER SYSTEMS

2022

Description: Legionella, a common bacterium in aquatic ecosystems, can cause Legionnaires' disease, a serious form of pneumonia, when inhaled by humans. The Workshop aims to raise awareness among public and private entities about the risks of Legionella.

CONSERVATION PROJECT PLANNING

2022

Description: To improve conservation action on the ground, the course provides an overview of how to plan and implement an effective conservation project and contributes to a better understanding of what makes a project, who should be involved, and how projects run in a cycle.

BUILDING CLIMATE RESILIENCE THROUGH ECOSYSTEM-BASED ADAPTATION PLANNING

2022

Description: To improve conservation action on the ground, the course provides an overview of how to plan and implement an effective conservation project and contributes to a better understanding of what makes a project, who should be involved, and how projects run in a cycle.

BUILDING CLIMATE RESILIENCE THROUGH ECOSYSTEM-BASED ADAPTATION PLANNING

2022

Description: The course covers the importance of nature-based solutions (EbA) for climate adaptation and sustainable development, and how integrating EbA into NAPs helps countries meet international environmental commitments. It also explains EbA's workings, funding opportunities, and its integration into the NAP process.

SSI DIVING COURSE: OPEN WATER DIVER

2021

MODEL EDC-THREATS AND TOOLS FOR ENDOCRINE-DISRUPTING POLLUTANTS IN MARINE ORGANISMS

2021

Description: The Euromarine-funded Foresight Workshop aims to map current risk assessment models for endocrine-disrupting chemicals (EDCs) in marine organisms, discuss the relevance of these models for diverse marine taxa, and assess knowledge gaps regarding exposure to single chemicals or complex mixes.

SUSTAINABLE CONSTRUCTION-CERTIFICATION SYSTEMS

2021

Description: Buildings and the construction industry contribute about 40% of total carbon emissions, while cities consume over 75% of natural resources on just 2% of Earth's surface. Sustainable construction certification systems, such as LEED, WELL, LiderA, and BREEAM, set standards for planning, designing, constructing, and operating sustainable projects, with the field growing by over 1000% in the last decade.

PUBLICATIONS

Searching for the critically endangered European eel in oceanic islands: A pioneer study in the freshwater systems of Madeira, Macaronesia

2024

The study on the European eel in the Madeira archipelago, Portugal, revealed key insights into its habitat preferences and conservation needs. Eels were found on Madeira and Porto Santo islands, with higher abundance in lower-altitude areas. Weirs were identified as barriers to their upstream migration, emphasizing the need to address smaller obstacles for better habitat connectivity. This research provides crucial baseline data for eel conservation in oceanic environments and highlights the importance of protecting Macaronesian subpopulations to support global recovery efforts. Future studies should focus on mitigating threats like man-made obstacles and interactions with non-native species.

Link: <https://onlinelibrary.wiley.com/doi/10.1002/aqc.4106>

La drave, une perturbation historique du Québec

2023

From the early 18th century to the late 20th century, Quebec used log drives to transport timber along waterways due to limited transport infrastructure. This practice started near the St. Lawrence River and expanded to regions like Beauce and Témiscamingue by the 1870s. The log drives ended around 1970. Logs were placed in water and guided by "drivers" with pike poles. Waterways were often modified with dams and widened to facilitate log passage.

Link: <https://afat.qc.ca/couvert-boreal/accueil/>

Development of management proposals for offshore marine protected areas

2022

Marine Protected Areas (MPAs) are essential for conserving biodiversity and managing marine resources sustainably, especially in vulnerable ecosystems like seamounts. The European Union's Marine Strategy Framework Directive highlights MPAs' role in achieving Good Environmental Status, crucial for Portugal's marine biodiversity and heritage. This study proposes management strategies for offshore MPAs, focusing on the Madeira-Tore geological complex and the Great Meteor submarine archipelago. Despite limited scientific knowledge, the research uses existing literature to enhance ecological and socioeconomic aspects. The work supports environmental commitments, conservation practices, and aligns with the Portuguese Government's goals.

Link:

https://www.researchgate.net/publication/364266085_Development_of_management_proposals_for_offshore_marine_protected_areas?channel=doi&linkId=6341e76cff870c55ce0e7aa1&showFulltext=true