

# CURRICULUM VITAE

## PERSONAL INFORMATION



Name	HUGO MANUEL SILVA RIBEIRO
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Nationality	Portuguese
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## EDUCATION AND TRAINING

### PhD in Biomedical Sciences (Environmental pollution)

From 2009 to July 2013

Institution: Instituto de Ciências Biomédicas Abel Salazar, Universidade do Porto

Supervisor: Prof. Adriano Bordalo (contact email: [bordalo@icbas.up.pt](mailto:bordalo@icbas.up.pt))

National Classification: Approved with Distinction

### Master in Environmental Sciences and Technology

From 2007 to 2008

Institution: Faculdade de Ciências da Universidade do Porto

Supervisor: Prof. Maria Teresa Borges (contact email: [mtborges@fc.up.pt](mailto:mtborges@fc.up.pt))

National Classification: 18 (0 - 20)

### First Degree in Environmental Sciences and Technology

De 2002 até 2007

Institution: Faculdade de Ciências da Universidade do Porto

National Classification: 16 (0 - 20)

### Professional course, level 3 - European Qualifications Framework

From 1998 to 2001

Institution: Instituto do Emprego e Formação Profissional

National Classification: 17 (0 - 20)

## WORK EXPERIENCE

### Project participation

**UNNOWN** – Undiscovered nitrogen microorganisms for wastewater inoculation

**Researcher** from December 2018 – until now

Institution: Hydrobiology Laboratory, CIIMAR

Scientific Coordination: Catarina Teixeira (contact email: [teixeira@icbas.up.pt](mailto:teixeira@icbas.up.pt)).

**CORAL** - Sustainable Ocean Exploitation: Tools and Sensors

**Researcher** from June 2017 – July 2018

Institution: EcoBioTec Laboratory, CIIMAR

Scientific Coordination: Catarina Magalhães (contact email: [cmagalhaes@ciimar.up.pt](mailto:cmagalhaes@ciimar.up.pt)).

**SPILLESS** - First line response to oil spills based on native microorganisms cooperation

**Team Member** since January 2017

Institution: EcoBioTec Laboratory, CIIMAR

Scientific Coordination: Ana Paula Mucha (contact email: [amucho@ciimar.up.pt](mailto:amucho@ciimar.up.pt)).

**ECOSERVICES** - Assessing the environmental quality, vulnerability and risks for the sustainable management of NW coast natural resources and ecosystem services.

**Collaborator** since June 2016

Institution: CIIMAR

**MARINEYE** - A prototype for multitrophic oceanic monitoring

**Researcher** from January 2016 – April 2017

Institution: EcoBioTec Laboratory, CIIMAR

Scientific Coordination: Catarina Magalhães.

**BioMar.PT** – Learning to know the marine environment of Portugal

**Team Member** in 2015

Institution: CIIMAR

Scientific Coordination: Prof. Isabel Sousa-Pinto

**ECORISK** - Ecological risk assessment of oils and hazardous and noxious substances in the NW Portuguese coast

**Collaborator** from 2014 to 2015

Institution: CIIMAR

**NITROTOX** – Interference of Metals and PAHs in Nitrate Removal Biological Processes: Denitrification vs Anammox.

**Researcher** from January 2014 – February 2015

Institution: EcoBioTec Laboratory, CIIMAR

Scientific Coordination: Catarina Magalhães.

**NITROSUL** – Novel interactions between marine biogeochemical nitrogen and sulfur cycles: characterization and ecological implications

*Researcher* from July 2013 - November 2013

Institution: EcoBioTec Laboratory, CIIMAR

Scientific Coordination: Catarina Magalhães.

**PHYTOBIO** – Phytoremediation and bioremediation of contaminants in salt marshes: plant - microorganisms interactions

*Team Member* from January 2010 - November 2013

Institution: Hydrobiology laboratory, CIIMAR/ICBAS and EcoBioTec Laboratory, CIIMAR

Scientific Coordination: Ana Paula Mucha.

**RACEWAYS** – A hyperintensive fish farming concept for lasting competitiveness and superior production

*Graduated Fellow* from November 2007 - April 2008

Institution: Applied Microbiology laboratory, CIIMAR

Scientific Coordination: Prof. Maria Teresa Borges.

## **PUBLICATIONS:**

### **PUBLICATIONS IN INTERNATIONAL PEER REVIEWED JOURNALS**

**14)** Sousa AGG, Tomasino MP, Duarte P, Fernández-Méndez M, Assmy P, **Ribeiro H**, Surkont J, Leite R, Leal JP, Torgo L, Magalhães C. Diversity and composition of pelagic prokaryotic and protist communities in a thin Arctic sea ice regime. *Microbial Ecology*

<https://link.springer.com/article/10.1007/s00248-018-01314-2>

**13)** **Ribeiro H**, Martins A, Gonçalves M, Guedes M, Tomasino MP, Dias N, Dias A, Mucha AP, Carvalho F, Almeida M, Ramos S, Almeida JM, Silva E, Magalhães C (2019). Development of an autonomous biosampler to capture *in situ* aquatic microbiomes. *PLOS ONE* 14(5): e0216882.

**12)** Rego A, Raio F, Martins T, **Ribeiro H**, Sousa AGG, Séneca J, Baptista MS, Lee CK, Cary C, Ramos V, Carvalho F, Leão P, Magalhães C (2019). Actinobacteria and Cyanobacteria diversity in terrestrial Antarctic microenvironments using culture-dependent and independent methods. *Frontiers in Microbiology* 10:1018.

**11)** **Ribeiro H**, Silva JG, Jesus J, Magalhães C, Dias JM, Danko AS (2019). Biodegradation of Biodiesel and Toluene under Nitrate Reducing Conditions and the Impact on Bacterial Community Structure. *Journal of Soils and Sediments* 19, 439 - 450.

**10)** **Ribeiro H**, de Sousa T, Santos J, Sousa AGG, Teixeira C, Salgado P, Monteiro MM, Mucha AP, Almeida CMR, Torgo L, Magalhães C (2018). Potential of dissimilatory nitrate reduction pathways in polycyclic aromatic hydrocarbon degradation. *Chemosphere* 199, 54 - 67.

- 9) Santos J, Monteiro M, Mendes D, **Ribeiro H**, Borges T, Magalhães C (2018). Salinity impact on ammonia oxidizers activity and amoA expression in estuarine sediments. *Estuarine, Coastal and Shelf Science*. <https://doi.org/10.1016/j.ecss.2017.09.001>
- 8) Portugal F, Dias JM, **Ribeiro H**, Magalhães C, Mucha AP, Danko AS (2017). Anaerobic Biodegradation of Ethylic and Methylc Biodiesel and their Impact on Benzene degradation. *CLEAN – Soil, Air, Water*, 45, 1600264.
- 7) **Ribeiro H**, Mucha AP, Azevedo I, Salgado P, Teixeira C, Almeida CMR, Joye SB, Magalhães C (2016). Differential effects of crude oil on denitrification and anammox, and the impact on N<sub>2</sub>O production. *Environmental Pollution* 216, 391—399.
- 6) **Ribeiro H**, Almeida CMR, Bordalo AA, Magalhães C, Mucha AP (2015). Salt marsh sediment characteristics as key regulators on the efficiency of hydrocarbons bioremediation by *Juncus maritimus* rhizospheric bacterial community. *Environmental Science and Pollution Research* 22, 450-462.
- 5) **Ribeiro H**, Mucha AP, Almeida CMR, Bordalo AA (2014). Potential of phytoremediation for the removal of petroleum hydrocarbons in contaminated salt marsh sediments. *Journal of Environmental Management* 137, 10-15.
- 4) **Ribeiro H**, Mucha, AP, Almeida, CMR, Bordalo, AA (2013). Bacterial community response to petroleum contamination and nutrient addition in sediments from a temperate salt marsh. *Science of the Total Environment* 458-460, 568-576.
- 3) **Ribeiro H**, Almeida CMR, Mucha AP, Bordalo AA (2013). Influence of different salt marsh plants on hydrocarbon degrading microorganisms abundance throughout a phenological cycle. *International Journal of Phytoremediation* 15, 715-728.
- 2) **Ribeiro H**, Almeida CMR, Mucha AP, Teixeira C, Bordalo, AA (2013). Influence of natural rhizosediments characteristics on hydrocarbons degradation potential of microorganisms associated to *Juncus maritimus* roots. *International Biodeterioration Biodegradation* 84, 86-96.
- 1) **Ribeiro H**, Mucha AP, Almeida CMR, Bordalo AA (2011). Hydrocarbon degradation potential of salt marsh plant–microorganisms associations. *Biodegradation* 22, 729-739.

#### CONFERENCE PEER REVIEWED PUBLICATION

- 1) Martins A, Dias A, Silva E, Ferreira H, Dias I, Almeida JM, Torgo L, Gonçalves M, Guedes M, Dias N, Jorge P, Mucha AP, Magalhães C, Carvalho MF, **Ribeiro H**, Almeida CMR, Azevedo I, Ramos S, Borges T, Leandro S, Maranhão P, Mougá T, Gamboa R, Lemos M, Santos A, Silva A, Teixeira BF, Bartilotti C, Marques R, Cotrim S (2016). MarinEye – A tool for marine monitoring. *Proceedings of the IEEE*. DOI: 10.1109/OCEANSAP.2016.7485624

## BOOKS (CHAPTERS)

**3) Ribeiro H**, Santos JP, Sousa AGG, Salgado P, Tomasino MP, Baptista M, Magalhães C (accepted). Aerobic ammonia-oxidizing prokaryotic: a perspective of the niche segregation under estuarine salinity gradient. In: De Sousa T (Eds), Global implications of the Nitrogen cycle, Cambridge Scholars Publishing, Newcastle, UK.

**2) Almeida CMR**, Couto N, **Ribeiro H**, Mucha AP, Bordalo A, Basto MC, Vasconcelos MTSD (2015). Salt marsh plants potential for the remediation of hydrocarbons contaminated environments. In: Ansari AA, Gill SS, Newman L, Lanza GR (Eds.), Phytoremediation: management of environmental contaminants. Springer publications, New York, 348p.

**1) Borges M-T**, Santos I, Restivo MT, Mendes JG, **Ribeiro H**, Pereira CM (2009). Solving the challenge of hyperintensive aquaculture: getting the maximum monitoring output from the minimum water input. In: Silva Gomes, JF, Meguid, SA (Eds), Proceedings IRF'2009 – 3rd Integrity, Reliability and Failure, Chapter II: Instrumentation and Engineering Measurement. Faculty of Engineering, University of Porto, INEGI Editions, 676 pp. ISBN 978-972-8826-22-2; CD-ROM, ISBN: 978-972-8826-21-5, Paper Ref: S0206 P0219, 6 p.

## COMMUNICATIONS

Hugo Ribeiro has **5 proceedings**, **17 oral** communications and **22 posters** presentations at international scientific conferences.

## OTHER CURRICULAR ACTIVITIES

### Training courses

2019 – Online ACS Reviewer Lab: peer review training course. Certified in 28 of June 2019. ACS – American Chemical Society.

2018 - Practical Workshop on Elixir-Excelerate Workshop on Marine Metagenomics. 7 - 11 of May. IGC - Instituto Gulbenkian de Ciência, Portugal.

2016 - Course on Analysis of Data from Molecular Techniques. 22 - 25 of September. CIIMAR - Interdisciplinary Centre of Marine and Environmental Research - University of Porto, Portugal.

2015 - Course on Analytical techniques in LC-MS / MS in aquatic environment. 22 - 25 of September. CIIMAR - Interdisciplinary Centre of Marine and Environmental Research - Portugal.

2014 - Course on Bioinformatics of microbial genomes and mobile elements: New perspectives and applications. 21 - 25 July (40h). Biology Department, University of Aveiro, Portugal.

## Research stays

**COST Action ES1302** - European Network on Ecological Functions of Trace Metals in Anaerobic Biotechnologies.

**Visiting postdoctoral** from 01 May 2015 – 1 June 2015

Institution: Microbial Ecophysiology & EcoEngineering Laboratory, National University of Ireland

Scientific Coordination: Prof. Gavin Collins (contact email: [gavin.collins@nuigalway.ie](mailto:gavin.collins@nuigalway.ie)).

## Other participations

### **Member of the organizing commission of the 6th Portuguese Polar Conference**

Conference: "6th Portuguese Polar Conference" of the Portuguese Polar Program (PROPOLAR).

From 30 October 2014 – 31 October 2014

Institution: CIIMAR - Rua dos Bragas, 289 - 4050-123 Porto

<http://cienciapolar.weebly.com/vi---reuniatildeo-2014---porto.html>

## Teaching Collaborator

2019 - Lecturing on the subject of *Ecosystems Restoration* at the Master's degree in Ecology and Environment program (FCUP), University of Porto

2017 and 2016 - Lecturing on the subject of *Environmental Biotechnology* at the Master's degree in Ecology and Environment (FCUP), University of Porto.

2015 and 2014 - Lecturing on the subject of *Environmental Biotechnology* at the Master's degree in Ecology, Environment and Territory (FCUP) and Bioengineering (FEUP), University of Porto.

2012 - Assistant on *Microbial Ecology* laboratory classes at the Aquatic Sciences first degree program. ICBAS, University of Porto

2012 - Lecturing on the subject of *Biological Oceanography* at the Master's degree in Marine Sciences program. ICBAS, University of Porto

2009 - Lecturing on the subject of *Microbial Ecology* at the Aquatic Sciences first degree program. ICBAS, University of Porto

2008 - Assistant on Laboratory in *Environmental Applied Technology* classes at the Master's degree in Biology program. FCUP, University of Porto.

## Supervising experience

### **– First-degree Final Projects –**

2016-2017 - André Ferreira Soares, first degree in Environmental Sciences and Technology, Faculty of Sciences of University of Porto.

## PRIZES AND AWARDS

**2018 - 3rd Atlantic Project Award - Winner**

**Category:** Promote entrepreneurship and innovation

**Project:** "SpilLess"

**Awarding Entity:** *Atlantic Action Plan*

**2018 - The Best of Technological Portugal Award - Honorable mention**

**Category:** Sustainability

**Project:** "MarinEye"

**Awarding Entity:** *Exame Informática*

**2006 - InnovationPoint Award - 1st prize (1500 €)**

**Category:** Business ideas contest

**Project:** "EIR of soils: Evaluation, Impact and Remediation of contaminated soils with gasoline".

**Awarding Entity:** *Innovation Point S.A*

## PERSONAL SKILLS

**Mother tongue** – Portuguese

**Other languages** – English (C1 - Proficient user); Spanish (A2- basic user)

**Hobbies** – Karate; Jogging; Swimming.