

Pablo Rodríguez Ros

PhD Candidate in Marine Sciences
Curriculum Vitae

PERSONAL DETAILS

Birth November 1, 1990
Address Institut de Ciències del Mar (ICM-CSIC). Passeig Marítim de la Barceloneta 37-49, CP 08003. Barcelona, Catalonia, Spain.
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EDUCATION

PhD Marine Sciences 2015-present
Institute of Marine Sciences (ICM-CSIC)
Politechnic University of Catalonia (UPC)
Title: "Biogeochemical modeling of the marine emission of trace gases with climatic roles".
"la Caixa" Foundation fellowship (2015-2019).

MSc Global Change 2013-2014
Menéndez Pelayo International University (UIMP)
Student with the highest mark in his Promotion (9.41/10).

BSc Marine Biology 2013
University of Aberdeen
ERASMUS Program - 6 months.

BSc Environmental Sciences 2008-2013
University of Murcia (UMU)
Student with the highest mark in his Promotion (8.85/10).

RESEARCH EXPERIENCE

Institut de Ciències del Mar (ICM-CSIC) 2015 - present
Spanish National Research Council
Marine Biogeochemistry and Global Change
- PhD Candidate in Marine Sciences.
- "la Caixa" Foundation PhD Grant (4 years: 2015-2019).
- Advisor(s): Rafel Simó (ICM-CSIC) and Sergio Vallina (IEO Gijón).
- Barcelona, Catalonia, Spain.

Research Projects:

- **PEGASO Project (2013-2016), "Plankton-derived Emission of Gases and Aerosols in the Southern Ocean"**. Spanish Ministry of Economy and Competitiveness. PI: Dr. Rafel Simó.
- **ACE Expedition (2016-2019), "Antarctic Circumnavigation Expedition"**. "SOR-PASSO" Project ("Surveying Organic Reactive gases and Particles Across the Surface Southern Ocean"). Swiss Polar Institute (SPI). PI: Dr. Rafel Simó.

- **BIOGAPS Project (2016-2019), "Biogenic trace gases and their cycling processes in the surface sea"**. Spanish Ministry of Economy and Competitiveness. PI: Dr. Rafel Simó.

ETH Zürich

June, 2018

Environmental Systems Science

- PhD Research Stay (1 month).
- Grant: International Research Stays for Scientists.
- Advisor(s): Nicolas Gruber and Meike Vogt.
- Zürich, Switzerland.

ETH Zürich

May - September, 2017

Environmental Systems Science

- PhD Research Stay (4 months).
- Grant: International Research Stays for Scientists.
- Advisor(s): Nicolas Gruber and Meike Vogt.
- Zürich, Switzerland.

TAKUVIK

January - April, 2016

Takuvik joint Université Laval - CNRS laboratory program

Ocean Ecosystems and Geosystems

- PhD Research Stay (3 months).
- Grant: "la Caixa" Foundation PhD Grant.
- Advisor(s): Dr. Marcel Babin y Dr. Martí Galí.
- Zürich, Switzerland.

BEFORE PHD:

IMEDEA-CSIC

September 2013 - October 2014

Mediterranean Institute for Advanced Studies

Spanish National Research Council

Global Change Research

- MSc Research Stay (1 year).
- Grant: UIMP Excellence Grant.
- Advisor(s): Susana Agustí and Carlos Duarte.
- Mallorca, Balearic Islands, Spain.

OceanLab

July - September, 2013

University of Aberdeen

Benthic ecosystem functioning, anthropogenic impacts and climate change

- BSc Research Internship (3 months).
- Grant: ERASMUS Research Internship.
- Advisor(s): Evina Gontikaki and Ursula Witte.
- Newburgh, Aberdeen, Scotland, UK.

Earth Physics

July - September, 2013

University of Murcia (UMU)

Modelling of the Regional Atmosphere

- BSc Research Internship (1 year).
- Advisor(s): Pedro Jiménez Guerrero and Juan Pedro Montávez Gómez.
- Murcia, Spain.

ICMAN-CSIC

July - September, 2011

Institute of Marine Sciences of Andalucía

Spanish National Research Council (CSIC)

Ecology and Coastal Management

- BSc Research Stay (2 months).
- Grant: JAE-CSIC Research for Promosing Scientists.

- Advisor(s): Emma Huertas and Javier Ruíz.
- Cádiz, Spain.

Marine Ecology

October 2010 - September 2012

University of Murcia (UMU)

Ecolog and Coastal Ecosystems Management

- BSc Research Internship (2 years).
- Advisor(s): Ángel Pérez Ruzafa and Concepción Marcos Diego.
- Murcia, Spain.

FIELD WORK

Skills and Expertise:

- On board management and data processing of bio-optical instruments (pigments, organic matter, particles, etc) and high frequency environmental variables (solar radiation, fluorimetry, water temperature, etc).
- Organic matter spectrometry.
- Pigments fluorimetry.
- Trace gases measurement. Gas Chromatography – Mass Spectometry.

RESEARCH CRUISES AND SCIENTIFIC EXPEDITIONS:

Moorea Expedition – BIOGAPS Project

2018

Gump Station (USA). Moorea Island, French Polinesia. 4 weeks. April, 2018

Antarctic Circumnavigation Expedition (ACE Project)

2016-2017

- *LEG 0: BREMERHAVEN (GERMANY) – CAPE TOWN (SOUTH AFRICA). 4 weeks. November – December, 2016.*

- *LEG 1: CAPE TOWN (SOUTH AFRICA) – TASMANIA (AUSTRALIA). 4 weeks. December 2016 – January, 2017.*

PEGASO Cruise

2015

Southern Ocean: Weddell Sea, South Georgia Islands, Orkney Islands and Gerlache Strait. 6 weeks. January – February, 2015.

TransPEGASO Cruise

2014

Cartagena (Spain) – Punta Arenas (Chile). 4 Weeks. October – November, 2014.

PRIZES, GRANTS AND AWARDS

Fulbright PhD Research Grant

2019-2020

1 year contract in order to finish the PhD at Scripps Institution of Oceanography, UC San Diego. Grant: Approx. 35,000 Euros.

PhD Fellowship from “la Caixa” Foundation

2015-2019

4 years contract in order to perform a PhD in an Spanish university. Grant: 113,500 Euros.

- IV LINCGlobal Iberoamerican School** 2018
Morillo de Tou, Huesca, Spain. October, 2018. Grant: Euros.
- International Research Stays for Scientists** 2018
Polytechnic University of Catalonia (UPC) – Fundación “la Caixa”. 1 month, June 2018. Zurich, Switzerland. Grant: 2,000 Euros.
- International Research Stays for Scientists** 2017
Polytechnic University of Catalonia (UPC) – Fundación “la Caixa”. 4 months, May - September, 2017. Zurich, Switzerland. Grant: 2,000 Euros.
- Winner “I am a scientist, Get me out of here – Spain”** 2017
Prize: 500 Euros.
- GODAE Ocean View International School 2017** 2017
New Frontiers in Operational Oceanography. IMEDEA-CSIC. Mallorca, Spain. Grant: 1,500 Euros.
- EuroMarine Working Group PlankBioS Workhop** 2017
Present and future plankton biogeography and the link between community structure, marine ecosystem functioning and ecosystem service provision. AZTI. Donostia, San Sebastian, Spain. Grant: 600 Euros.
- 2016 PALEOGENiE summer school** 2016
A Practical Introduction to Ecological Modelling. University of Bristol. Bristol, United Kingdom. Grant: 600 Euros.
- Excellence MSc Grant** 2014
Menéndez Pelayo International University (UIMP). Mallorca, Spain. Prize: 1,000 Euros.
- “Outstanding Graduation Award in Environmental Sciences”** 2013
An special prize for the student with the highest mark of his BSc class. University of Murcia. Murcia, Spain. Prize: 200 Euros.
- ERASMUS Research Internship** 2013
3 months research internship at the “OceanLab”, University of Aberdeen, Scotland, United kingdom. University of Murcia. Murcia, Spain. Grant: 1,500 Euros.
- ERASMUS Study Programme** 2013
6 months (January - June, 2013) at the University of Aberdeen, Scotland, United kingdom. University of Murcia. Murcia, Spain. Grant: 1,200 Euros.
- Excellence Mention in BSc Thesis** 2013
University of Murcia. Murcia, Spain.
- JAE-Intro Research Grant** 2011

Institute of Marine Sciences of Andalusia (ICMAN – CSIC). July – September, 2011. Spanish Ministry of Science, Education and Sports (MECD). Cádiz, Spain. **Grant: 2,000 Euros.**

PUBLICATIONS AND CONFERENCES

Article

In prep.

"Isoprene emission in the Southern Ocean: an ecological modelling approach". Rodríguez Ros, Pablo; Nissen, Cara; Cortés, Pau; Gruber, Nicolas; Vallina, Sergio; Vogt, Meike; Simó, Rafel. (In preparation).

Article

2013

Contribution of Donaa Wetlands to carbon sequestration. Edward P. Morris, Susana Flecha, Jordi Figuerola, Eduardo Costas, Gabriel Navarro, Javier Ruiz, Pablo Rodríguez, Emma Huertas. *PlosOne*, 2013.

Conference

2018

Jornadas Investigadores Predoctorales Interdisciplinar (JIPI) – Universitat de Barcelona (19 de febrero de 2018). *Isoprene in the Southern Ocean: Filling the gap*. Pablo Rodríguez, Pau Cortés, Martí Galí, Cara Nissen, Meike Vogt, Nicolas Gruber, Sergio Vallina, Rafel Simó.

Conference

2018

Ocean Sciences Meeting, 11-16 February. Portland, Oregon, EEUU. "Pelagic Ecosystem Emissions of Aerosol-Forming Substances in Antarctica and the Subantarctic". Rafel Simó, Manuel Dall'Osto, Pau Cortés, Marina Zamanillo, Pablo Rodríguez-Ros, Charlotte Cree, Sdena Nunes, Gonzalo Pérez, Eva Ortega-Retuerta, Mikhail V Emelianov, Celia Marrase, Dolors Vaqué, Marta Estrada, M. Montserrat Sala, Mark F Fitzsimons, Rachael Beale, Ruth L Airs, Jurgita Ovadnevaite, Marco Paglione, David Beddows, Darius Ceburnis, Matteo Rinaldi, Stefano Decesari, Cristina Facchini, Roy M Harrison, Colin D. D. O'Dowd.

Conference

2018

Ocean Sciences Meeting, 11-16 February. Portland, Oregon, EEUU. "Transparent Exopolymer Particles and Coomassie Stainable Particles Show Uncoupled Distributions in the Surface Ocean". Marina Zamanillo, Eva Ortega-Retuerta, Pablo Rodríguez-Ros, Pau Cortés, Sdena Nunes, Marta Estrada, Maria Montserrat Sala, Cèlia Marras, Josep M. Gasol, Carolina Cisternas-Novoa, Anja Engel Rafel Simó.

Conference

2017

GODAE Ocean View International School. Mallorca, España (Octubre, 2017). "Studying the marine biogeochemistry of Isoprene (C₅H₈) through remote sensing images and ecological modelling". Pablo Rodríguez-Ros, Pau Cortés, Martí Galí, Cara Nissen, Meike Vogt, Nicolas Gruber, Sergio Vallina, Rafel Simó. 15th Symposium on Aquatic Microbial Ecology. Zagreb, Croatia (3-8 September 2017).

Conference

2017

"Surveying Organic Reactive gases and PARTICLES Across the Surface Southern Ocean (SORPASSO)". Marina Zamanillo, Eva Ortega-Retuerta, Sdena Nunes, Marta Estrada, M. Montserrat Sala, Pablo Rodríguez-Ros, Josep M. Gasol and Rafel Simó. High Altitudes meet High Latitudes: Globalizing Polar Issues. Crans-Montana, Suiza. (11-12 September 2017).

Conference

2017

"Surveying Organic Reactive gases and PArticles Across the Surface Southern Ocean (SOR-PASSO)". Cortés, P., Zamanillo, M., Rodríguez-Ros, P., Pérez, G., Pearson, H., Simó, R. Banyuls-ICM Interlab Meeting. Banyuls, France (June 2017).

Conference

2017

Exploring ocean-atmosphere exchanges in the Southern Ocean: the PEGASO and ACE projects". R. Simó, P. Cortés, M. Zamanillo, P. Rodríguez-Ros, S.J. Royer, S.O. Nunes, D. López-Sandoval, E. Ortega-Retuerta, M. Emelianov, M. Estrada, M.M. Sala, D. Vaqué, C. Marrasé, M. Dall'Osto et al. (ICMCSIC, Barcelona); C. Cree, M. Fitzsimons, R. Airs (Plymouth Univ./PML); S. Decesari et al. (Univ. Bologna); J. Ovadnevaite, D. Ceburnis et al. (NUI Galway); G.L. Pérez (INIBIOMA, Bariloche); C. Cisternas-Novoa, A. Engel (GEOMAR, Kiel). Banyuls-ICM Interlab Meeting. Banyuls, France (June 2017).

Conference

2016

"Viral abundance and community structure among four contrasting areas in the Southern Ocean and their implication to marine aerosol formation". Ana Sotomayor-García, Maria Montserrat Sala, Isabel Ferrera, Marta Estrada, Yaiza M. Castillo, Pau Cortés, Pablo Rodríguez-Ros, Charlotte Cree, Ruth Airs, Mark Fitzsimons, Marta Sebastian, Celia Marrasé, Manuel Dall'Osto, Rafel Simó, Dolores Vaqué. EuroMarine Foresight Symposium. Bremerhaven, Germany (November 2016).

Conference

2016

"The Biological Carbon Pump in a Changing World". Organic Matter characterization in a mosaic of phytoplankton blooms in the Southern Ocean. Eva Ortega Retuerta; Celia Marrasé; Marina Zamanillo; Pablo Rodríguez Ros; Gonzalo L. Pérez; Marta Estrada; Rafel Simó.

Conference

2016

7th EUROLAG: European Coastal Lagoons Symposium (marzo, 2016). Influence of a nutrient gradient in the ecophysiological response of the rocky macroalgae community in a coastal lagoon (Mar Menor, Spain). Marta García-Sánchez, Nathalie, Korbee, Isabel Maria Pérez-Ruzafa, Concepción Marcos, Pablo, Rodríguez-Ros, Félix L. Figueroa, Angel Pérez-Ruzafa.

Conference

2012

First Ibero-American Meeting in Marine Sciences. Cádiz, Spain (enero 2012). TRANSPARENT EXOPOLYMER PARTICLES IN A MANGROVE: THE COOMBABAH LAKE (AUSTRALIA) Prieto, L., Rodríguez-Ros, P., Ferrer-Marco, M., Palhares, D. y Pitt, K.

Conference

2012

9th INTECOL International Wetlands Conference. Orlando, Florida, EEUU (Junio de 2012) Spatio-temporal distribution of air-water CO₂ exchange in Doñana wetlands (Spain) S. Flecha, Edward P. Morris, Jordi Figuerola, Eduardo Costas, Gabriel Navarro, Pablo Rodríguez, and I. Emma Huertas.

Conference

2012

Global Change In the Mediterranean Congress (2012). Air-water carbondioxide fluxes in a Mediterranean wetland. Edward P. Morris, Susana Flecha, Jordi Figuerola, Eduardo Costas, Pablo Rodríguez, Gabriel Navarro and Emma Huertas.

SKILLS

Languages Spanish (mother tongue)
English (fluent) - C1
Catalan (fluent)
French (intermediate)

Software R, L^AT_EX, UBUNTU, PYTHON

MEMBERSHIPS

La Facultad Invisible 2016 - present
Board Member

Association of Polar Early Career Scientists 2016 - present
Vice-President of APECS Spain

Ecomandanga 2017 - present
Collaborator