

Claudio M. Pierard

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EDUCATION

Ph.D. Candidate in Physical Oceanography Utrecht University	2020 - present
Master 2 Environmental Fluid Mechanics Université Grenoble Alpes	2019 - 2020
Master 1 Applied Mechanics Université Grenoble Alpes	2018 - 2019
B.Sc. Physics National Autonomous University of Mexico (UNAM)	2011 - 2017

EXPERIENCE

Institute for Marine and Atmospheric Research Utrecht <i>PhD researcher</i> Project: Nanoplastics: origin, structure and fate (https://nanoplastics.org/) Supervisors: Prof. Erik van Sebille.	October 2020 - present
Laboratoire d'Océanographie Physique et Spatiale <i>Master 2 research internship.</i> Project: Abyssal turbulence in the vicinity of Lucky Strike. Supervisors: Prof. Guillaume Rouillet and Dr. Jonathan Gula.	February 2020 - September 2020
Institut des Géosciences de l'Environnement <i>Master 1 research internship.</i> Project: Measurement of turbulence in katabatic winds over a steep alpine slope. Supervisor: Dr. Jean-Emmanuel Sicart.	November 2018 - May 2019
Center for Atmospheric Sciences, UNAM <i>Undergraduate Research Assistant, Ocean-Atmosphere Interaction group.</i> Project: Development of an operational forecast system for extreme events using numerical models to predict meteorological conditions, waves and storm tides. Supervisor: Dr. Jorge Zavala Hidalgo.	July 2017 - August 2018
Center for Atmospheric Sciences, UNAM <i>Undergraduate Research Assistant, Laboratory of Geophysical Fluids.</i> Project: Numerical simulations of convection in a stratified fluid using the open source framework Dedalus. Supervisor: Dr. Angel Ruiz-Angulo.	April 2017 - November 2017

AWARDS

Make Our Planet Great Again Laureate Master's Excellence Grant for Climate Science and Research.	2018 - 2020
Blue-Cloud Hackathon Winner Team €25,000 for developing the Sea-Clearly tool for tracking plastic pollution reaching aquaculture farms. seaclearly.io	February 2022

PUBLICATIONS

- C.M.Pierard, D.Bassotto, F.Meirer, E.van Seville. *Attribution of River-Sourced Floating Plastic in the South Atlantic Ocean Using Bayesian Inference*. 2022, Frontiers in Marine Science.
doi.org/10.3389/fmars.2022.925437

CONFERENCES

- Annual Reunion of the Mexican Geophysical Union** *November 2017*
Study of the Planetary Boundary Layer over Mexico City during the inversion layers period.
- Nederlands Aardwetenschappelijk Congres (NAC) - NWO** *September 2022*
Attribution of River-Sourced Floating Plastic in the South Atlantic Ocean Using Bayesian Inference.
- MICRO 2022 - Plastic Pollution from Macro to Nano** *November 2022*
Backtracking nanoplastics found in the abyssal South Atlantic using Lagrangian simulations with fragmentation.

WORKSHOPS

- Bad Honnef Physics School on Physics of the Ocean** *July 2020**
Deutsche Physikalische Gesellschaft – Cancelled due to COVID-19.
- Marine Master's Summer School** *July 2019*
Royal Netherlands Institute for Sea Research (NIOZ).
- Summer School in Atmospheric Sciences** *June 2017*
UNAM – Juriquilla, Mexico.
- JuliaCon 2016** *June 2016*
MIT – Cambridge, MA.

CERTIFICATIONS

- **Causes of Climate Change** *University of Bergen. FutureLearn (2015).*
- **Nonlinear Dynamics: Mathematical and Computational Approaches** *Complexity Explorer (2016).*
- **12.340x: Global Warming Science** *MITx, edX (2016).*
- **ChM003x: Sensing Planet Earth** *Chalmers University of Technology, edX (2016).*
- **Monitoring Climate from Space** *European Space Agency, FutureLearn (2016).*
- **IELTS (British Council).** *Score: 7/9 (2019).*
- **Full Cave Diver.** *Technical Diving International (2022).*
- **Sidemount Diver.** *Technical Diving International (2022).*

SKILLS

<i>Languages</i>	Spanish (native). French (fluent). English (fluent). Dutch (beginner).
<i>Programming Languages</i>	PYTHON, JULIA, GIT, L ^A T _E X.