

Claudio Pierard

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cpierard.github.io

EDUCATION

- Université Grenoble Alpes (UGA)** 2019 - 2020
Master 2 Environmental Fluid Mechanics.
- Université Grenoble Alpes (UGA)** 2018 - 2019
Master 1 Applied Mechanics.
Thesis: Measurements of Turbulence in Katabatic Winds on a Steep Slope.
- National Autonomous University of Mexico (UNAM)** 2011 - 2017
B.Sc. Physics.
Thesis: Ventilation Coefficients in the Valley of Mexico.
- Université Catholique de Louvain** 2010 - 2011
Propaedeutic in Mathematics and Physics specialized in Engineering.

RESEARCH EXPERIENCE

- Institut des Géosciences de l'Environnement, IGE** November 2018 - May 2019
Master research internship.
Project: Measurement of turbulence in katabatic winds over a steep alpine slope.
Supervisor: Dr. Jean-Emmanuel Sicart.
- Center for Atmospheric Sciences, UNAM** July 2017 - August 2018
Undergraduate Research Assistant, Ocean-Atmosphere Interaction group.
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.
- Center for Atmospheric Sciences, UNAM** April 2017 - November 2017
Undergraduate Research Assistant, Laboratory of Geophysical Fluids.
Project: Numerical simulations of convection in a stratified fluid using the open source framework Dedalus.
Supervisor: Dr. Angel Ruiz Angulo.
- CICESE** 19 - 22 November 2017
Assistant, Glider deployment in the Gulf of Mexico.
Project: Oceanographic Monitoring Group with Gliders (GMOG).
Supervisor: Dr. Angel Ruiz Angulo.

AWARDS

- Make Our Planet Great Again Laureate** 2018 - 2020
Master's Excellence Grant for Climate Science and Research.

CONFERENCES

Annual Reunion of the Mexican Geophysical Union

November 2017

Study of the Planetary Boundary Layer over Mexico City during the inversion layers period (Poster).

A. Burgos, C. Pierard, J. García, A. Ruiz-Angulo, M. Grutter, A. Bezanilla.

WORKSHOPS

Marine Master's Summer School

July 2019

Royal Netherlands Institute for Sea Research (NIOZ) – Texel, Netherlands.

Project: Tidal Dynamics of the Marsdiep Channel.

Summer School in Atmospheric Sciences

June 2017

UNAM – Juriquilla, Mexico.

JuliaCon 2016 (attendee)

June 2016

MIT – Cambridge, MA.

COURSES & CERTIFICATIONS

Online Courses

- **Nonlinear Dynamics: Mathematical and Computational Approaches**
Santa Fe Institute. Complexity Explorer (December 2016).
- **12.340x: Global Warming Science**
MITx. edX (May 2016).
- **ChM003x: Sensing Planet Earth – from Core to Outer Space**
Chalmers University of Technology. edX (March 2016).
- **Monitoring Climate from Space**
European Space Agency. FutureLearn (January 2016).
- **Causes of Climate Change**
University of Bergen. FutureLearn (October 2015).

English Courses and Certifications

- **TOEFL iBT (ETS).** *Score: 99/120* (March 2018).

SKILLS

Languages

Spanish (native).
French (fluent).
English (fluent).
Dutch (basic).

Programming Languages

PYTHON, JULIA, GIT, BASH, L^AT_EX, Matlab.