

# Claudio Pierard

cl.pierard@gmail.com  
(+33) 06 42 53 40 69  
Grenoble, France  
cpierard.github.io

## EDUCATION

---

- Université Grenoble Alpes** 2019 - 2020  
*Master 2 Environmental Fluid Mechanics.*  
Thesis: Abyssal turbulence in the vicinity of Lucky Strike. (In progress)
- Université Grenoble Alpes** 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

---

- Laboratoire d'Océanographie Physique et Spatiale** February 2020 - July 2020  
*Master research internship.*  
Project: Abyssal turbulence in the vicinity of Lucky Strike.  
Supervisors: Pr. Guillaume Roulet and Dr. Jonathan Gula.
- Institut des Géosciences de l'Environnement** 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

- **IELTS (British Council).** *Score: 7/9 (November 2019).*

- **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<sup>A</sup>T<sub>E</sub>X.