

# Odilon Joël HOUNDEGNONTO

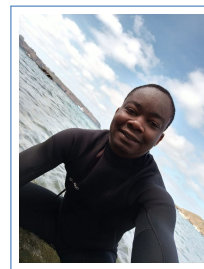
*Ph.D. – Physical Oceanophy  
and Environment*

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*Beninese - Born on December 16th, 1991 at Sey (Benin)  
[ojhoundegnonto.github.io](https://github.com/ojhoundegnonto)*

## Research interests

– Ocean Physics: linkage and applications for Societal Needs – Geophysical Fluid Dynamics – Rivers plumes dynamics – The dynamic of climate – Remote sensing.

## Education

- 2018-2021** - **Ph.D.**, *Physical Oceanophy and Environment*, Topic: Analysis of freshwater plumes thermohaline variations from intra-seasonal to seasonal scales in the Gulf of Guinea, LOPS - IRD/UBO/IUEM - Brest, France.
- 2016-2017** - **Master of science (M.Sc) in Physical Oceanography and Applications / Sciences de l'océan, de l'atmosphère et du climat**, jointly accredited by Paul Sabatier University of Toulouse (UPS, France) and International Chair in Mathematical Physics and Applications (ICMPA UNESCO- Chair) of University of Abomey Calavi (UAC, Benin), **Rank : 1st**.
- 2014–2015** - **Maîtrise ès-sciences Physiques, Option: Physics**, Faculty of Sciences and technologies (FAST/UAC), Benin.
- 2013–2014** - **Licence ès-sciences Physiques, Option: Physics**, FAST/UAC, Benin.
- 2012–2013** - **DUES (Diplôme Universitaire d'Étude Scientifique)**, specialization: **Physics and Chemistry**, FAST/UAC, Benin.

## Awards

- July 2018** - **Laureate of Make Our Planet Great Again - MOPGA**, of french government by **Mr. Emmanuel MACRON** for my PhD project and co-funded by IRD, France, (**Rank: 8<sup>th</sup>**).

## Publication

- [01] **Houndegnonto, O. J.**, Kolodziejczyk, N., Maes, C., Bourlès, B., Da-Allada, C. Y., & Reul, N. (2021), Seasonal variability of freshwater plumes in the eastern Gulf of Guinea as inferred from satellite measurements. *Journal of Geophysical Research: Oceans*, 126, e2020JC017041. <https://doi.org/10.1029/2020JC017041>.

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## Selected Conference Attended

- September 2021** **O. J. HOUNDEGNONTO et al.**, (*as speaker, on line*), On the formation of thermohaline stratification off Congo River plume. Physical oceanography workshop on Tropical Atlantic Climate and Coastal Variability (**TACCOVAR** - 2021), Cotonou, Benin.
- Septembre 2019** **O. J. HOUNDEGNONTO et al.**, (*as speaker*), Seasonal variability of Congo and Niger Rivers plumes in the Gulf of Guinea. Physical oceanography workshop on Tropical Atlantic Climate and Coastal Variability (**TACCOVAR** - 2019), Cotonou, Bénin.
- Juillet 2019** **O. J. HOUNDEGNONTO et al.**, (*Poster*), Seasonal variability of Congo and Niger Rivers plumes in the Gulf of Guinea. Summer School at l'École Polytechnique de Paris Saclay, Palaiseau, France.
- May 2019** **O. J. HOUNDEGNONTO et al.**, (*as speaker*), Seasonal variability of Congo and Niger Rivers plumes in the Gulf of Guinea. Living Planet Symposium 2019 Conference (**LPS19**), Milan / Italie.
- April 2019** **O. J. HOUNDEGNONTO et al.**, (*as speaker*), Seasonal variability of Congo and Niger Rivers plumes in the Gulf of Guinea. **EGU** (European Geosciences Union) General Assembly 2019, Vienne/Autriche.
- Novembre 2018** **O. J. HOUNDEGNONTO et al.**, (*as speaker*), Characterization of Niger and Congo rivers plumes in the Gulf of Guinea. 2018 **Ocean Salinity Sciences Conference**, University of Sorbonne, Paris/France.

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## Research training and professional experience

- Sep.-Apr. 2021** - **Training in Scientific integrity in the research professions**, (*in French: Intégrité scientifique dans les métiers de la recherche*), University of Bordeaux via FUN MOOC, - France.
- 2019** - **Summer School on Fluid Dynamics of Sustainability and the Environment at Ecole Polytechnique of Paris, France**, from 1<sup>st</sup> to 12<sup>th</sup> July, 2019.
- **Training in Data Sciences for Geosciences: initiation to machine Learning and Deep Learning with Python**, Plouzané - France, from 14<sup>th</sup> to 18<sup>th</sup> January 2019.
- 2018** - **Training in sampling techniques and methods, data analysis and interpretation of results**, GEOMAR - Kiel, Germany, July 2018.
- **Participant of**, Oceanographic research cruises (M148 cruise) in the tropical Atlantic, R/V Meteor - from 24th May to 29th June 2018; Position: **CTD**, **UCTD**, **ADCP** measurements, Microstructure, **Argo** and **Glider** float deployment + Physical analyzes.
- **Regional training in oceanographic coastal modeling (SYMPHONIE)**, co-organized by Laboratoire d'Études en Géophysique et Océanographie Spatiales (LEGOS), Laboratoire d'Aérodynamique (LA) of Toulouse/France, IRD/Bénin and, ICMPA UNESCO-Chair, Cotonou, Benin, from 2<sup>nd</sup> to 6<sup>th</sup> April 2018.

**2017 - Scientific cruises on Lake Nokoué (ADCP, CTD, Turbidity, Ph and, Bathymetry with echo-sounder measurements) , IRD Bénin & IRHOB .**  
**Period:** 08-09/11/2017 and 31/09 to 01/10/2017

## **Voluntary Positions**

**2018 - Volunteer**, Oceanographic research cruises (M148 cruise) in the tropical Atlantic, R/V Meteor - **Period:** 24th May to 29th June 2018.  
- **Volunteer researcher**, Working with new Master students in Physical Oceanography and Applications, in their training and internship. (CIMPA UNESCO-Chair / UAC, Benin) - **Period:** October 2017 to May 2018.

## **Computing Skills**

**Languages:** Matlab, Python (intermediate), GitHub (basic), Shell Bash, LaTeX.  
**OS:** Linux and Windows  
**Model:** - **ARIANE**, Oceanic langrangian analysis software/Model.  
- **SYMPHONIE**, Coastal oceanography model.

## **Driving Skills**

Driving license B; Boat license: Coastal option.

## **Languages**

French (Full Professional), English (Good), Fongbé (Mother tongue).

## **Leisure**

Equitation, Sport, Cinema, Fishing, Hiking, Reading.

Brest, 9<sup>th</sup> April, 2022.



Mr. Odilon Joël HOUNDEGNONTO