LAURELINE DALAUT

PHD CANDIDATE IN MARINE ECOLOGY

Having specialised in marine ecology, I have gained experience in industry, research and teaching. My activities cover a wide range of areas, reflecting my desire for multidisciplinarity and overall scientific progress.
I am convinced that progress in the future will only be achieved by promoting interactions between science and society. Promoting research is a key issue at present and one that should not be overlooked!

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ldalaut.github.io

EDUCATION

PHD IN MARINE ECOLOGY

Marbec | April 2023 - March 2026

Impact of climate change on global marine ecosystems :
- Marine ecosystem modeling using APECOSM
- Propagation of climate variability analysis
- Global scale study
- Ecosystem structure and function change under climate change
- Supervised by Olivier Maury and Matthieu Lengaigne

Regional finalist in in 3-minutes thesis

MECHANICAL ENGINEERING DEGREE

University of Technology of Compiègne | September 2017 - July 2020

- Advanced mechanics
- Mathematical techniques for engineers
- Numerical modelling of engineering problems
- Interculturality
- Science and debate

EXPERIENCE

TEACHING

Sorbonne Nouvelle University | June 2024 - June 2025

- Development of training on eco-design tools and reducing environmental impact in research laboratories.
- Creation of a serious game to facilitate the implementation of impact reduction actions within a laboratory.
- Facilitation of training

LIFE CYCLE ASSESSMENT CONSULTANT

EVEA | February 2020 - February 2023

- Conducting environmental and social life cycle assessments (LCA).
- Providing support for environmental initiatives and eco-design.
- Developing tools for assessing environmental issues, such as an environmental footprint calculator.
- Training in environmental and social LCA tools
- Training in eco-design and social issues
- Raising awareness of environmental communication.

SKILLS

Marine ecology | Ecosystem modeling | Mechanic | Life cycle assessment | Python | Git | Jupyther | Critical thinking | Analiycal skills | Synthesis capability | Adaptability | Valuing information | Rigour

LANGUAGES

FRENCH - mother tongue
ENGLISH - fluent
MANDARIN - advanced intermediate

INVOLVEMENT

LABO1POINT5 WG REFERENT

Collective for more sustainable research. Working group (WG) taking into account the specific characteristics of non-permanent staff

OCEAN COLLAGE FACILITATOR

Collaborative workshop open to all, raising awareness of ocean-related issues and the impact of our activities.

MY EARTH IN 180' FACILITATOR

Collaborative workshop for academics to develop scenarios for reducing their carbon footprint.

HOBBIES

Swimming
Cycling
Running
Painting
Photography
Ceramic

PUBLICATIONS

FIRST AUTHOR

Laureline Dalaut, Nicolas Barrier, Matthieu Lengaigne, Jonathan Rault, Alejandro Ariza, Mokrane Belharet, Adrien Brunel, Ralf Schwamborn, Mariana Travassos-Tolotti, Olivier Maury (2025). Which processes structure global pelagic ecosystems and control their trophic functioning? Insights from the mechanistic model APECOSM. Progress in Oceanography.
DOI : https://doi.org/10.1016/j.pocean.2025.103480

Laureline Dalaut, Nicolas Barrier, Matthieu Lengaigne, Olivier Maury . How contrasted environments in the Humboldt Current System, Pacific Warm Pool and South Pacific Gyre, shape contrasted ecosystems. A modeling approach using APECOSM. (under review)

Laureline Dalaut, Nicolas Barrier, Matthieu Lengaigne, Olivier Maury . How climate change will upside-down pelagic ecosystems. (in prep)

CO-AUTHOR

Sam Ditkovsky, Laure Resplandy, **Laureline Dalaut**, Nicolas Barrier, Matthieu Lengaigne, and Olivier Maury. Sensitivity of diel vertical migration depths to future changes in the Pacific Ocean oxygen minimum zone. (under review).

Matthieu Lengaigne, Shanshan Pang, Yona Silvy, Vincent Danielli, Gopika Suresh, Sadhvi Kwatra, Clément Rousset, Christian Ethé, Renaud Person, Gurvan Madec, Nicolas Barrier, Olivier Maury, **Laureline Dalaut**, Christophe Menkes, S Nicol, Thomas Gorgues, A Melet, Karen Guihou, Jérôme Vialard . An ocean-only framework for correcting future CMIP oceanic projections from their present-day biases. (under review)

CONFERENCES

TALK - symposium of the French Association of Fisheries (AFH)
June 2024 in Sète (France)

TALK - PISCO Meeting
October 2024 in Paris (France)

POSTER - One Ocean Science Congress (OOSC)
June 2025 in Nice (France)

TALK - PISCO Meeting
September 2025 in Paris (France)

TALK - Working Party on Ecosystems and Bycatch (WPEB21)
September 2025 in Sète (France)