

Curriculum Vitae

Academic research experience

2019–2023 **Thesis with Camille Lique**, *Laboratoire d'Océanographie Physique et Spatial (LOPS), IFREMER, Brest, France*

Subject: Interaction between sea ice and eddies in the Arctic Ocean

- Development of a new algorithm for detecting the oceanic eddy signature in sea ice vorticity, with SAR images
- Observation and characterization of the mesoscale dynamics in the Arctic Ocean, with in situ data
- Characterization of the variability of sea ice vorticity and its interactions with the atmosphere and ocean, at the scale of the Arctic basin, with the NEMO ocean model

Link: <https://theses.hal.science/tel-04274721>

Jan 2019–Jul 2019 **Internship with Elodie Martinez and Christophe Maes**, *Laboratoire d'Océanographie Physique et Spatial, IRD, Brest, France*

Subject: Monitoring the influence of the mesoscale ocean dynamics on phytoplanktonic plumes around the Marquesas archipelago.

Publications

- [1] Angéline Cassianides, Camille Lique, Anne-Marie Tréguier, Gianluca Meneghello, and Charly De Marez. Observed spatio-temporal variability of the eddy-sea ice interactions in the arctic basin. *Journal of Geophysical Research: Oceans*, 128, 6 2023.
- [2] Angelina Cassianides, Camille Lique, and Anton Korosov. Ocean eddy signature on sar-derived sea ice drift and vorticity. *Geophysical Research Letters*, 48:e2020GL092066, 2021.
- [3] Angelina Cassianides, Elodie Martinez, Christophe Maes, Xavier Carton, and Thomas Gorgues. Monitoring the influence of the mesoscale ocean dynamics on phytoplanktonic plumes around the marquesas islands using multi-satellite missions. *Remote Sensing*, 12:2520, 8 2020.

Communications (Oral)

May 2022 **European Geophysical Union, Vienna, Austria**, Oral presentation
Interplay between subsurface eddies and sea ice over the Arctic Ocean

Avr 2022 **Winter School on Atmosphere-Ocean-Sea Ice Interaction Processes, Svalbard, Norway**, Poster presentation
Interplay between subsurface eddies and sea ice over the Arctic Ocean

Aug 2021 **Université d'été Mer Éducation, Concarneau, France**, Seminar presentation
Les tourbillons océaniques sous la glace en Arctique

Avr 2021 **European Geophysical Union, Online**, Oral presentation
Oceanic eddy signature on SAR-derived sea ice drift and vorticity

Fev 2020 **Seminar at NERSC, Bergen, Norway**, Oral presentation, *Oceanic eddy signature on SAR-derived sea ice drift and vorticity*

Education

- 2017–2019 **Master of physical and biogeochemical oceanography**, *Institut Méditerranéen d'Océanologie, Université d'Aix-Marseille*, Marseille, France
- Jul 2017–
Aug 2017 **Summer school of Leeds university**, *University of Leeds*, Leeds, England
20 ECTS validated in : *Wealth & Poverty: The Making of the Modern World; Heretics, Witches and Conspirators: A History of Fear, 1500-1700*
- 2014–2017 **Bachelor of Physics and Chemistry**, *Université d'Aix-Marseille*, Aix-Marseille, France

Skills

- Programing Python, Shell, Latex, Matlab, Fortran
- Language French (mother tongue), english (fluent), tahitian (beginner)

Interests

Scuba diving, Volley Ball, Photography, Design

Extra Curricular

- Oct. 2023 – **Volunteering for the organization Unu Mondo**, *La Rochelle*, France
- Nov. 2023 Raising awareness of climate change in the Arctic among students from primary school to university, aboard the polar sailing boat *Northabout*.
- Mar. 2022 – **Volunteering for the program Adopt a Float**, *Brest*, France
- March. 2022 Raising awareness on the ocean and its protection among primary school students.
- 2019 – 2022 **Doctoral students' representative at Ecole Doctoral des Sciences de la Mer et du Littoral**, *Brest*, France
- 2014 – 2016 **Co-founder and Secretary of the Bureau Des Elèves**, *Université Montpellier*, Aix-Marseille, France