

Joan Mateu Horrach Pou

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Education

[MSc. Physical Oceanography](#) — University of Bergen 2021

Advisors: Prof. Kjetil Våge and PhD. Ailin D. Brakstad.

Thesis topic: *Deep weakly-stratified layers in the Greenland Sea.*

Academic project in Fjord Oceanography: *Vertical Mixing and deep water renewal in Masfjorden (Western Norway)*

[BSc. Marine Sciences](#) — University of Cadiz 2018

Advisors: Prof. Jesus Gómez Enri and PhD Juan Jesús Gómiz Pascual.

Thesis topic: *Spatiotemporal variability of the Gulf Stream using altimetry products.*

Research experience

[Head Engineer in Data Management](#) — Geophysical Institute (Bergen) March 2023 — Present

Data transformation, metadata validation and quality control of various oceanographic sensors.

[Data Manager](#) — Norwegian Meteorological Institute June 2022 — September 2022

Data transformation, metadata validation and storage at the Arctic Data Centre.

[Research assistant](#) — Bjerkness Centre for Climate Research November 2020 — February 2022

Decadal prediction skill analysis for winter SST in the Nordic Seas and Arctic Ocean using CMIP6 models.

[Student Assistant](#) — University of Cadiz March 2015 — February 2018

Bibliography research for the Physical Oceanography pensum. Introduction to Synthetic Aperture Radar (SAR) signal processing and analysis.

Field work (59 days)

[HAB's Cruise](#) — Chukchi and Beaufort Sea August 2022 (28 days)

CTD watchstanding and water sampling. PI: Robert S. Pickart

[Fjord Oceanography cruise](#) — Masfjorden April 2020 (7 days)

Campaign design and preparation for microstructure and CTD measurements and mooring deployment. PI: Elin Darelius

[CALYPSO 2019 Cruise](#) — Alboran Sea (Spain) April 2019 (17 days)

Part of the uCTD team and collaborating with microstructure measurements, ADCP data processing, and drifter experiment release. PI: Amala Mahadevan and Eric d'Asaro.

[Fjord Oceanography cruise](#) — Bjørnafjorden February 2018 (7 days)

CTD measurements, calibration, validation, and mooring deployment. PI: Elin Darelius

Publications

Detection and evolution of weakly-stratified layers in the Greenland Sea. (in prep)

Mahadevan et al., (2020). CALYPSO 2019 Cruise Report: field campaign in the Mediterranean.

Oral/Poster communications

- [Deep weakly-stratified layers in the Greenland Sea.](#) — Poster
ASOF Las Palmas (Spain), 2023
- [Dense water formation in the Nordic Seas](#) — Oral Communication
Opening of the Marine Sciences Student Symposium (SACMA) at the University of Cadiz (Spain), 2023
- [Physical drivers of the phytoplankton blooms around Iceland.](#) — Oral Communication
THOR Akureyri, 2023
- [Heat Flux and SST prediction skill in the Nordic Seas in CMIP6.](#) — Oral Communication
Multi-annual to Decadal Climate Predictability in the North Atlantic-Arctic
- [Deep weakly-stratified layers in the Greenland Sea.](#) — Oral communication
THOR Geilo, 2022
- [Sub-mesoscale coherent vortices in the Greenland Sea](#) — Oral Communication
CIRCO-Universidad de Cadiz, 2021
- [Heat Flux and SST prediction skill in the Nordic Seas using NorCPM.](#) — Oral Communication
Bjerkness Climate Prediction Unit seminars, 2020
- [Spatiotemporal variability of the Gulf Stream using altimetry products.](#) — Oral Communication
International Symposium of Marine Sciences (Vigo, Spain), 2018
- [Seasonal to decadal variability in the Gulf Stream.](#) — Poster
Marine Sciences Student Symposium (SACMA) at the University of Cadiz (Spain), 2018

Internships

- [Research internship](#) — GEOMAR May 2019 — October 2019
OSNAP data processing focusing on the Deep Western Boundary Current mooring array at 53°N.
- [Summer Internship](#) — IMEDEA-UIB-CSIC May 2018 — September 2018
Altimetry data processing and evaluation.
- [Research Internship](#) — Geophysical Institute February 2018 — May 2018
Amundsen Sea data processing.

Teaching experience and supervision

- [Sonia Dominguez, Bs Thesis](#) — Universidad de las Palmas de Gran Canaria (ULPGC, 2023)
Subject: Mixed-layer depth and sea ice concentration variability in the Greenland Sea.

Awards

- [Fast-track initiative funding](#) — Bjerkness Centre for Climate Research, 2021
The project *Sub-mesoscale coherent vortices in the Greenland Sea* was awarded 3 months of funding in order to publish an academic paper in a peer-reviewed journal.

International Conferences and retreats

Arctic and Sub-arctic Ocean Fluxes (ASOF) workshop	Las Palmas (Spain), 2023
THOR: Transatlantic High-latitude Oceanography Retreat	Akureyri (Iceland), 2023
THOR: Transatlantic High-latitude Oceanography Retreat	Geilo (Norway), 2022
Multi-annual to Decadal Climate Predictability in the North Atlantic-Arctic	Copenhagen (Denmark), 2022

Extracurricular courses and Summer Schools

Time Series Analysis: Theory and Practice by J. Lilly	online, 2022
Climate Dynamics Summer School	Utrecht (Netherlands), 2018
European Space Agency Summer School	ESA-Frascati (Italy), 2016