

Employment

Job Title **Postdoctoral Associate, Overturning in the Sub-Polar North Atlantic Programme (OSNAP)**
Period May 2022 – present
Employer Rosenstiel School of Marine and Atmospheric Science, University of Miami

Education

Degree **PhD Physical Oceanography**
Institution University of Southampton
Period September 2017 – April 2022
Title **A reconstruction of the Atlantic meridional overturning circulation at 26°N**
Supervisors Dr Gerard McCarthy, Dr Jenny Mecking, Prof. Bob Marsh

Degree **MSc Oceanography (Physical Oceanography and Climate Change), Distinction**
Institution University of Southampton
Period September 2016 – September 2017
Dissertation Title **Estimating the Deep Overturning Transport Variability at 26°N Using Bottom Pressure Recorders**
Supervisors Dr Eleanor Frajka-Williams, Dr Gerard McCarthy

Degree **BSc Mathematics, First Class Honours**
Institution The Open University
Period October 2008 – May 2016

Publications

- 2021 **Worthington, E.L., Moat, B.I., Smeed, D.A., Mecking, J.V., Marsh, R., McCarthy, G.D.**. A 30-year reconstruction of the Atlantic meridional overturning circulation shows no decline. *Ocean Science*
- 2019 **Worthington, E. L., Frajka-Williams, E., & McCarthy, G. D.**. Estimating the Deep Overturning Transport Variability at 26° N Using Bottom Pressure Recorders. *Journal of Geophysical Research: Oceans*

Seagoing Experience

- 2023 **RAPID-MOCHA-WBTS**, *R/V Endeavor*.
Servicing RAPID/MOCHA western boundary moorings; ABACO line and 27°N CTD sections.
- 2022 **OSNAP Cruise 30**, *R/V Neil Armstrong*.
Servicing the OSNAP permanent mooring array in the East Irminger and West Iceland basins, and performing CTD sections.
- 2018 **RAPID Cruise 174**, *RRS James Cook*.
Servicing the RAPID permanent mooring array at 26°N. Additionally responsible for processed the underway VMADCP data using UHDAS software.

Conferences and Talks

- 2023 Oral presentation at IUGG 2023 meeting.
- 2023 Invited chair/co-chair for 2 sessions on *The Meridional Overturning Circulation* at IUGG 2023 meeting
- 2021 Invited webinar for Royal NIOZ
- 2020 Invited webinar for LOPS, IFREMER
- 2020 Oral presentation at AGU Ocean Sciences
- 2019 Poster presentation at EGU General Assembly
- 2018 Invited talk at Dept. of Geography Seminars, Maynooth University

Supervisory Experience

- 2022-present Co-supervising PhD project at Maynooth University with Gerard McCarthy.
- 2021 Co-supervised MSc project at Maynooth University with Gerard McCarthy.

Teaching Experience

- 2019, 2020 Demonstrated Matlab practicals for Masters students
- 2018 Taught basic geostrophy to Oceanography undergraduates
- 2017 Planned and taught three hour-long mathematics support tutorials for Masters students taking module *Introduction to Physical Oceanography*
- 2017 Demonstrated for MSc Oceanography module *Large-scale Ocean Processes*

Other experience

- 2022 Invited reviewer for *JGR:Oceans*
- 2021 Invited reviewer for *Ocean Sciences*

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- 2021 Invited reviewer for *Nature Climate Change*
- 2021 **CMIP6 Hackathon, JGI Bristol** A remote 3-day collaboration of ocean and climate scientists, testing proxies of AMOC variability in CMIP6

Awards

- 2021 Ocean Observing Team Award, The Oceanographic Society