

Dr Anna Katavouta – C.V.

Senior Ocean Modelling Scientist, National Oceanography Centre, Liverpool, UK

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RESEARCH STATEMENT: I am an ocean-climate scientist interested in understanding the control of fundamental processes, like ocean circulation, stratification and carbon cycling, on the climate response to emissions; as well as using this understanding to assess emerging trends in ocean conditions in terms of regional-scale variability. My research approach combines numerical models (idealised and realistic), observations and theory to address the changing ocean and its role within the Earth system.

PROFESSIONAL EXPERIENCE

- 2019 - present **Senior Research Scientist - Ocean Modelling**, National Oceanography Centre, Liverpool, UK.
- 2020 – 2023 **Research Scientist - Secondment (part-time, 50%)** at the University of Liverpool, UK.
- 2016 – 2019 **Postdoctoral Research Associate in Ocean Sciences**, Department of Earth, Ocean and Ecological Sciences, University of Liverpool, UK.
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EDUCATION

- 2010- 2016 **PhD in Oceanography**, Dalhousie University, Halifax, Canada. Thesis: *“Non-linear coupling of scales of ocean variability and implications for downscaling”*.
- 2008- 2010 **MSc in Earth and Atmospheric Sciences**, University of Alberta, Edmonton, Canada. Thesis: *“Sea-ice data assimilation for the Canadian East Coast”*.
- 2003- 2008 **Ptychio (BSc Hons) in Physics**, University of Patras, Patras, Greece. Thesis: *“Simulating and forecasting erythemal radiation time series using Artificial Neural Networks”*.
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STUDENTS & TEACHING ACTIVITIES

- 2022 - present Contributing to the supervision and advising **PhD student Elisavet Baltas, University of Cambridge**.
- Aug - Nov 2023 Supervised visiting **PhD student Renata Tatsch Eidt, University of Bologna/CMCC** that was awarded a **Marco Polo mobility grant** to work under my guidance at NOC.
- 2022-23 Co-supervised **3 undergraduate research projects, University of Liverpool**.
- 2017 – 2022 Mentored & contributed to the supervision of **PhD student K. Turner, U of Liverpool**.
- 2017 – 2018 **Computer-lab**, University of Liverpool. Module: Key Skills for Environmental Data Analysis, for the second-year students in the School of Environmental Sciences.
- Jan & Oct 2017 **Guest Lecturer:** (i) University of Liverpool. Module: Global Carbon Cycle; (ii) Liverpool John Moores University. Module: Earth Systems.
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AWARDS & RECOGNITIONS (selected)

- **2024 Challenger Fellow** (September 2024). Awarded by the Challenger Society for Marine Science to early career scientists to recognise and honour their achievements.
- **Celebrating Researchers** – individual achievement, University of Liverpool (July 2022). For my diverse research on ocean-climate system and work cited in the IPCC report.
- **Kathy Ellis Memorial Book Prize** (2010-2011). Presented annually to the graduate student who achieves the highest average in the Oceanography core courses at Dalhousie University.
- **Dr Roy Dean Hibbs Memorial Graduate Scholarship** (2010). Awarded based on strong academic performance with an emphasis on research at the University of Alberta.

SERVICES TO THE SCIENTIFIC COMMUNITY (selected)

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| UN Ocean Decade | Co-leading the endorsed action “ Future Coastal Ocean Climates ” (FLAME) and a active member of its host Programme CoastPredict . |
| Convener | Co-Chair: EGU-2025 general assembly , session: “ <i>Ocean storage and loss of carbon and heat, and relevance for climate</i> ”. Chair: AGU-Ocean Sciences 2024 , session “ <i>Mind the Gap: Understanding and Predicting Future Coastal Ocean Climates</i> ”. Chair: EGU2024-general assembly , session “ <i>Observing, forecasting and projecting the Global Coastal Ocean (CoastPredict)</i> ” |
| Meetings | 2025-FLAME workshop at the 2025 Coastpredict Assembly, Lecce. 2025 - Challenger Society SIG Ocean Modelling group meeting , Liverpool (upcoming) |
| Organiser | |
| Reviewer | Biogeosciences, Climate Dynamics, Environmental Research Letters, Geoscientific Model Development, GRL, JAMES, Journal of Climate, JGR-Oceans, Journal of Physical Oceanography, Nature Communications, and many more. |
| Seminars | NOC - Liverpool seminar series (2021- 2023), University of Liverpool – Ocean |
| organisation | seminar series (2018-2019). |

INVITED VISITS & TALKS (selected)

- **Euro-Mediterranean Center on Climate Change, CMCC**, Italy (April 2024): “*Future Coastal Ocean Climates – FLAME UN Ocean endorsed action*”.
- **University of Cambridge**, UK (November 2022): “*The ocean carbon cycle, a key component of the climate system.*” Invited by the *Centre of Climate Repair at Cambridge*.
- **Princeton University**, USA (March 2022): “*Controls of global and basin-scale ocean carbon cycle feedbacks on centennial timescale*”. Invited virtual seminar.
- **Max Planck Institute of Meteorology**, Hamburg, Germany (Jan 2019): “*The role of ocean in a changing climate: a carbon cycle feedback framework*”. Invited by Dr Tatiana Ilyina.
- **University of Bern**, Bern Switzerland (August 2018): “*Ocean ventilation control of the surface warming dependence on carbon emissions*”. Invited by Prof Thomas Frölicher.

DEVELOPMENT ACTIVITIES (selected)

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| Jan 2024 | Media training: ‘ Communicating Ocean Science ’ & ‘ Video Creation ’ workshops (NOC). |
| Nov 2022 | ‘ Demystifying the NERC independent Research Fellowship , workshop on preparing for a NERC IRF interview (organised by the Earth Science Women’s Network). |
| Jun 2021 | UN Ocean Decade ‘ Virtual Early Career Ocean Professional Day ’ (organised by UN). |
| Jun 2021 | COP26 ‘ CMIP6 Data Hackathon 2021 ’ (part of Met Office Climate Data Hackathon series). |
| Oct 2020 | ‘ Parliament for ECRs , how to engage with the UK Parliament’ (by UK Parliament). |
| Aug 2018 | Awarded a place in the 17th Oeschger Centre for Climate Change Research Summer School, Switzerland . Participation in this summer school is highly competitive and is limited to a maximum of 70 young researchers from all fields of climate research. |

COMPETITIVE RESEARCH PROJECT GRANTS

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| 2025-2028 | Co-I and NOC-PI, Horizon 2020 (EU funds) grant SEAClim : European SEAs CLIMate impact prediction through regional models. https://doi.org/10.3030/101180125 (£3,843,683). |
| 2023-2026 | Co-I, NERC CCROC grant <i>Role of the Overturning Circulation in Carbon Accumulation</i> (ROCCA) NE/Y005287/1 (£613,355). |
| 2023-2024 | NOC-PI, NERC standard grant AsymO-HC - funding transfer to NOC from the University of Liverpool through a Collaboration Agreement (£54,878). |
| 2020-2023 | Named Researcher Co-I, NERC standard grant <i>Asymmetries in ocean heat and carbon uptake, and effects on marine hazards</i> (AsymO-HC) NE/T007788/1 (£646,402). |

PUBLICATIONS. Articles: 24, h-index: 15, citations: 1048, with 6 of my papers used and cited in Chapters 4, 5 & 7 of the *IPCC Sixth Assessment Report, Climate Change 2021: The Physical Science Basis*. Please find my Publications here: <https://katavouta.github.io/Publications/>