

# Paul Edwin Curtis

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EDUCATION	<b>Yale University</b> 2021 - 2026 Doctor of Philosophy (Ph.D.), Atmosphere, Ocean, Climate Dynamics. <i>Advanced to candidacy in May 2023.</i> Major Advisor: Prof. Alexey V. Fedorov. Thesis: <i>Interactions between the Atlantic Meridional Overturning Circulation (AMOC) and the Arctic in a Warming Climate: from Satellite-Based Observations to Model Experiments.</i> (provisional title)
	<b>Imperial College London</b> 2017 - 2021 Master of Science (MSci.), Physics. Concentration: Atmospheric physics, Magnetohydrodynamics, Theoretical Physics.
RESEARCH EXPERIENCE	<b>Geophysical Fluid Dynamics Fellow</b> 2024 Woods Hole Oceanographic Institution.
	<b>Graduate Research &amp; Teaching Assistant</b> 2021 - 2026 Department of Earth and Planetary Sciences, Yale University.
	<b>Undergraduate Researcher (UROP)</b> 2019 Department of Physics, Imperial College London.
FELLOWSHIPS & AWARDS	WHOI Geophysical Fluid Dynamics (GFD) Graduate Fellowship. 2024 NASA Future Investigators (FINESST) Graduate Fellowship. 2023 - 2026 Graduate Research Fellowship, Yale University. 2021 - 2023 Ludlam Prize for Excellence in Atmospheric Physics, ICL. 2021 EPSRC Undergraduate Summer Research Grant, ICL. 2019 Low Income Bursary, ICL. 2017 - 2021
JOURNAL PUBLICATIONS	4. <b>Curtis, P. E.</b> , & Fedorov, A. V. (2024), Spontaneous Generation of Dansgaard-Oeschger Events under Global Cooling Without Continental Ice Sheets. Manuscript under evaluation at <i>Science Advances</i> .
	3. <b>Curtis, P. E.</b> , & Fedorov, A. V. (2024), Collapse and Slow Recovery of the Atlantic Meridional Overturning Circulation (AMOC) Under Abrupt Greenhouse Gas Forcing. <i>Climate Dynamics</i> , <a href="https://doi.org/10.1007/s00382-024-07185-3">https://doi.org/10.1007/s00382-024-07185-3</a> .
	2. <b>Curtis, P. E.</b> , & Fedorov, A. V. (2024), Spontaneous Activation of the Pacific Meridional Overturning Circulation (PMOC) in Long-Term Ocean Response to Greenhouse Forcing. <i>Journal of Climate</i> , <b>37</b> (5), 1551-1565. <a href="https://doi.org/10.1175/JCLI-D-23-0393.1">https://doi.org/10.1175/JCLI-D-23-0393.1</a>
	1. <b>Curtis, P. E.</b> , Ceppi, P., & Zappa, G. (2020), Role of the Mean State for the Southern Hemispheric Jet Stream Response to CO <sub>2</sub> Forcing in CMIP6 Models. <i>Environmental Research Letters</i> , <b>15</b> , 064011. <a href="https://doi.org/10.1088/1748-9326/ab8331">https://doi.org/10.1088/1748-9326/ab8331</a>
NON-REFEREED PUBLICATIONS	<b>Paul Curtis</b> , Where Next for Wind? (2018) <i>Energy Journal - LSE, Imperial, UCL &amp; ESCP Energy Societies</i> , Issue 4, p.10-11 <a href="http://energyjournal.co.uk/4th_edition">http://energyjournal.co.uk/4th_edition</a>

ADDITIONAL TRAINING & WORKSHOPS	4 <sup>th</sup> Summer School on “ <i>Theory, Mechanisms and Hierarchical Modeling of Climate Dynamics: Atlantic Variability and Tropical Basin Interactions at Interannual to Multi-Decadal Time Scales</i> ”. International Centre for Theoretical Physics, Trieste, Italy.	2023
	Royal Society Scientific Meeting: “ <i>Atlantic Overturning: New Observations and Challenges</i> ”. The Royal Society, London, UK.	2022
	UNIQ+ Graduate Access Programme ( <i>virtual</i> ), University of Oxford, UK.	2020
	Corpus Christi College physics masterclass, University of Cambridge, UK.	2016
CONFERENCES - TALKS	AGU Ocean Sciences Meeting, New Orleans, LA.	Feb 2024
	Nansen Legacy Symposium, Tromsø, Norway.	Nov 2023
	EGU General Assembly, Vienna, Austria. ( <i>online</i> )	Apr 2023
	AGU Fall Meeting, Chicago, IL.	Dec 2022
CONFERENCES - POSTERS	AGU Fall Meeting, San Francisco, CA.	Dec 2023
	ICTP Summer School, Trieste, Italy.	Aug 2023
	WHOI Workshop on the Changing Beaufort Gyre, Woods Hole, MA.	Mar 2023
	AMS 23 <sup>rd</sup> Conference on AOFD, Breckenridge, CO.	Jun 2022
	US CLIVAR AMOC Scientific Meeting, Woods Hole, MA. ( <i>online</i> )	Apr 2022
TEACHING & MENTORSHIP	<i>Teaching Fellowships</i>	
	Physical Oceanography, Yale College (EPS335).	Fall 2023
	Physical Oceanography, Yale College (EPS335).	Fall 2022
	Dynamic Earth, Yale College (EPS110).	Fall 2021
	<i>Mentoring (with Prof. Alexey V. Fedorov)</i> Theo Schiminovich, senior thesis.	2024-2025
SERVICE	Yale EPS colloquium student representative (AOCD division).	2024
	Yale EPS Earth System Modelling faculty search student volunteer.	2024
	Yale EPS AOCD faculty search student volunteer.	2023
	Yale EPS IDEA 1 <sup>st</sup> generation & international student committee member.	2022
SKILLS	<i>Utilities:</i> Matlab, python, R, command line (Linux), L <sup>A</sup> T <sub>E</sub> X.	
	<i>Climate Model and Reanalysis Data:</i> CESM, CMIP5&6, ERA5.	
	<i>In-situ Data Sets:</i> Ice Tethered Profilers (WHOI), Beaufort Gyre Moorings (BGOS/WHOI), Magnetospheric Multiscale Mission (NASA).	
RELEVANT COURSEWORK	<i>Yale University:</i> Geophysical Fluid Dynamics; Physical Oceanography; Climate Dynamics; Energy, Mass, and Momentum Processes; Classical Statistical Thermodynamics; The Science of Complex Systems; Applied Numerical Methods for Differential Equations; Time Series Analysis for Geophysics.	
	<i>Imperial College London:</i> Atmospheric Physics; Environmental Physics; Advanced Hydrodynamics; Space Physics; Fluid Mechanics; Advanced Classical Physics; Thermodynamics and Statistical Physics; Mechanics; Quantum Field Theory; General Relativity.	