Jacob T. Cohen

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Education	
Ph.D., Oceanography: Advanced Data Science The Ocean's Role in Climate Variability and Predictability University of Washington	Expected Aug. 2025
M.S., Oceanography, University of Washington	2023
B.A., Physics, Carleton College	2019
Research Experience	
Graduate Research Assistant, University of Washington Advisor: LuAnne Thompson	2019-present
REU Research Assistant, The Pennsylvania State University Advisors: Sukyoung Lee, Raymond Najjar, Qian Li	2018
Undergraduate Research Assistant, Universidad Nacional de Costa Ric Advisors: Sergio Molina, Vanessa Valerio Hernandez, Fabiola Rodriguez, Javier Espeleta	a 2017

Publications

Cohen, J. T., Thompson, L., Maroon, E., Deppenmeier, A.-L., Cai, C. (2025). Object-based evaluation of seasonal-to-multiyear marine heatwave predictions, *GRL*, accepted

In review

- Kohlman, K., Mogen, S., *Cohen, J. T.*, Araujo, J., Bonino, G., Beaudin, E., Gagliardi, A., Lovenduski, N. S., Surface and subsurface biogeochemical impacts of the 2019 Northeast Pacific marine heatwave, *GRL*, in review
- Richter, J. H. & Coauthors (incl. *Cohen, J. T.*) Earth system predictability across time scales for a resilient society: A research community perspective, *Bull. Am. Meteorol. Soc.*, submitted

In preparation

- Cohen, J. T., Thompson, L., Seasonal roles of the ocean and the atmosphere in driving the surface heat flux feedback, JGR: Oceans, in prep.
- Cai, C., Thompson, L., Deppenmeier A.-L., *Cohen, J. T.*, Maroon, E., Staneva, V., Whitt, D., Drivers of marine heatwaves in the North Pacific Ocean, *Journal of Climate*, in prep.

Presentations

CAMAS Workshop and Early Career School April 2025

Sources of predictability in seasonal forecasts of September Arctic sea ice, oral

AGU Fall Meeting Object-based evaluation of marine heatwave predictions, poster	December 2024
Graduate Climate Conference Sources of predictability in skillful Arctic sea ice forecasts, oral	November 2024
NOAA's Subseasonal and Seasonal Applications Workshop Object-based evaluation of marine heatwave forecasts, oral	September 2024
Liège Colloquium on Ocean Dynamics Object-based evaluation of marine heatwave predictions, oral	May 2024
Earth System Predictability Across Timescales Workshop Object-based evaluation of marine heatwave predictions, poster	April 2024
CESM Earth System Prediction Working Group Meeting Object-based evaluation of marine heatwave predictions in SMYLE, oral	March 2024
Ocean Sciences Meeting Predicting the spatiotemporal evolution of marine heatwaves, oral	February 2024
Graduate Climate Conference Predicting the spatiotemporal evolution of marine heatwaves, oral	November 2023
ICTP-CLIVAR Summer School on Marine Heatwaves Predicting the spatiotemporal evolution of marine heatwaves, poster	July 2023
UW Data Science Seminar Characterizing the spatiotemporal evolution of marine heatwaves, oral	April 2023
US CLIVAR Mesoscale and Frontal-Scale Air-Sea Interactions Workshop The seasonal cycle of the ocean's role in driving air-sea interaction, poster	March 2023
AGU Fall Meeting Seasonal variation in the relative roles of oceanic and atmospheric process sea interaction, oral	December 2022 ses in driving air-
Graduate Climate Conference Quantifying the relative roles of atmospheric and oceanic processes in drivinteraction in the Gulf Stream region, poster	October 2022 ving air-sea
US CLIVAR Whither the Gulf Stream Workshop Quantifying the relative roles of atmospheric and oceanic processes in driving air-sea interaction in the Gulf Stream region, poster	
Ocean Sciences Meeting Seasonal variation in the effective depth of air-sea interaction, oral	March 2022
Oceanography Graduate Student Symposium The effective depth of air-sea interaction, oral	November 2021
Graduate Climate Conference The effective depth of air-sea interaction on monthly and seasonal timescale	October 2021 les, poster

Northwest Climate Conference Actionable Community-Oriented Research eNgagement (ACORN) with the U Climate Change, lightning talk	April 2021 JW Program on
AGU Fall Meeting Timescales of atmosphere-ocean interaction in the Southern Ocean, oral	December 2020
Graduate Climate Conference Timescales of atmosphere-ocean interaction in the Southern Ocean, poster	October 2020
AGU Fall Meeting Is jet-scale overturning circulation present in the North Atlantic Ocean?, pos	December 2018 ster
Carleton College Student Research Symposium & Celebration Is jet-scale overturning circulation present in the North Atlantic Ocean?, po.	October 2018 ster
Software	
Ocetrac (https://doi.org/10.5281/zenodo.1473 heatwave3 (https://robwschlegel.github.io/heatwave3/index.html)	36769)
Fellowships and Awards	_
CICOES Graduate Student Fellowship	2025
Graubard Fellowship in the Program on Climate Change NSF GRFP Honorable Mention	2023 2021
University of Washington Provost's Fellowship	2019–2020
Kolenkow-Reitz Undergraduate Research Fellowship	2019–2020
Community Engagement and Service	
Organizer, Marine Heatwave Early Career Ocean Professionals (ECOP)	2025
Liaison, Actionable Community-Oriented Research eNgagement (ACORN) and the Clean Energy Transition Institute	2021–2025
Reviewer, Journal of Climate, American Meteorological Society	2023–2024
Member, Program on Climate Change Graduate Steering Committee	2020–2022
Lead, Actionable Community-Oriented Research eNgagement (ACORN)	2020–2022
Executive Committee Member, Graduate Climate Conference	2020, 2022
Chair, Graduate Climate Conference	2021
Convener, Innovative Initiatives in Conducting Community-Based Science and Training the Next Generation of Practitioners (AGU Fall Meeting)	2021
Member, Summer Committee for Social and Environmental Justice	2020
Volunteer, Climate Change // Curiosity Expo	2020

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Leaching	Experience

Guest Speaker, Data Science in Oceanography Summer Research Program Object-Based Evaluation of Marine Heatwave Predictions	2024
Guest Lecturer, ATM S 220: Exploring the Atmospheric Sciences The Ocean and the Climate: Air-sea interaction, climate variability, and marine heatwaves	2024
Teaching Assistant, Ocean 285–Physics Across Oceanography: Fluid Mechanics and Waves, University of Washington	2021, 2024
Guest Speaker, Data Science in Oceanography Summer Research Program Detecting Tracking, and Predicting Marine Heatwaves	2023
Workshops	
Consortium for the Advancement of Marine Arctic Science (CAMAS) Workshop and Early Career School	2025
Physical Oceanography Dissertation Symposium XIII	2024
NOAA's Subseasonal and Seasonal Applications Workshop	2024
Earth System Predictability Across Timescales Workshop (NSF NCAR)	2024
US CLIVAR Summit	2023
ICTP-CLIVAR Summer School on Marine Heatwaves	2023
US CLIVAR Mesoscale and Frontal-Scale Air-Sea Interactions Workshop	2023
Grid SST Hackathon (University of Washington)	2022
NASA Summer School on Satellite Observations and Climate Models	2022
US CLIVAR Whither the Gulf Stream Workshop	2022
CESM Tutorial (NSF NCAR)	2022