

Jacob T. Cohen

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University of Washington
Seattle, WA 98195

Education

- In progress* **University of Washington**, Seattle, WA
Ph.D. student, Oceanography
- 2023 **University of Washington**, Seattle, WA
M.S., Oceanography
- 2019 **Carleton College**, Northfield, MN
B.A., Physics

Research Experience

- 2019-present **Graduate Research Assistant**, University of Washington
Advisor: LuAnne Thompson
- Studying the relative roles of the ocean and the atmosphere on driving monthly and seasonal air-sea heat exchange and upper ocean heat content variability with satellite observations.
- Predicting the spatiotemporal evolution of marine heatwaves in the North Pacific in the Seasonal-to-Multiyear Large Ensemble (SMYLE).
- 2018 **Physical Oceanography Research**, The Pennsylvania State University
Advisors: Sukyoung Lee, Raymond Najjar, Qian Li
- Analyzed Argo float data to identify signatures of jet-scale overturning circulation in the North Atlantic Ocean.
- 2017 **Climate Research and Outreach**, Universidad Nacional de Costa Rica
Advisors: Javier Espeleta, Sergio Molina, Vanessa Valerio Hernandez, Fabiola Rodriguez
- Evaluated 20 years of meteorology data and disaster reports to assess risk in Barva and Quepos, Costa Rica.
- Collaborated with municipal councils on local climate policies and produced a report on the climate threats facing Barva and Quepos.

Presentations

- Cohen, J. T.**, Thompson, L., Seasonal variation in the relative roles of oceanic and atmospheric processes in driving air-sea interaction, Abstract OS13B-08, AGU Fall Meeting, 12 Dec. 2022, oral
- Cohen, J. T.**, Thompson, L., Quantifying the relative roles of atmospheric and oceanic processes in driving air-sea interaction in the Gulf Stream Region, Graduate Climate Conference 2022, poster

- Cohen, J. T.**, Thompson, L., Quantifying the relative roles of atmospheric and oceanic processes in driving air-sea interaction in the Gulf Stream Region, 2022 US CLIVAR Whither the Gulf Stream Workshop, 15-17 June 2022, poster/lightning talk
- Cohen, J. T.**, Thompson, L., Seasonal Variation in the Effective Depth of Air-Sea Interaction, Ocean Sciences Meeting, 4 Mar. 2022, oral (remote)
- Cohen, J. T.**, Thompson, L., The Effective Depth of Air-Sea Interaction, Oceanography Graduate Student Symposium, 5 Nov. 2021, oral
- Cohen, J. T.**, Thompson, L., The Effective Depth of Air-Sea Interaction on Monthly and Seasonal Timescales, Graduate Climate Conference, 29–31 Oct. 2021, poster (remote)
- Cohen, J. T.**, et al., Actionable Community-Oriented Research eNgagement (ACORN) with the UW Program on Climate Change, Northwest Climate Conference, 6-8 Apr. 2021, lightning talk (remote)
- Cohen, J. T.**, Thompson, L., Drushka, K., Timescales of Atmosphere-Ocean Interaction in the Southern Ocean, Abstract A055-05, AGU Fall Meeting, 8 Dec. 2020, oral (remote)
- Cohen, J. T.**, Thompson, L., Drushka, K., Timescales of Atmosphere-Ocean Interaction in the Southern Ocean, presented at 2020 Graduate Climate Conference, 30 Oct. - 1 Nov. 2020, poster (remote)
- Cohen, J. T.**, Lee, S., Li, Q., Najjar, R. G., Is Jet-Scale Overturning Circulation Present in the North Atlantic Ocean?, Abstract OS43C-2090, AGU Fall Meeting, 10-14 Dec. 2018, poster
- Cohen, J. T.**, Lee, S., Li, Q., Najjar, R. G., Is Jet-Scale Overturning Circulation Present in the North Atlantic Ocean?, Carleton College Student Research Symposium & Celebration, 19 Oct. 2018, poster

Fellowships and Awards

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| 2023 | Graubard Fellowship in the Program on Climate Change |
| 2021 | NSF GRFP Honorable Mention |
| 2019-2020 | University of Washington Provost's Fellowship |
| 2018 | Kolenkow-Reitz Undergraduate Research Fellowship |

Community Engagement and Service

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| 2020-2022 | Member, Program on Climate Change Graduate Steering Committee
University of Washington Program on Climate Change |
| 2020-2022 | Co-Lead, Actionable Community-Oriented Research eNgagement (ACORN)
University of Washington Program on Climate Change |

- 2020, 2022 **Executive Committee Member, Graduate Climate Conference**
University of Washington and MIT
- 2021 **Co-Convener, Innovative Initiatives in Conducting Community-Based Science and Training the Next Generation of Practitioners**
AGU Fall Meeting, Session U22B
- 2021 **Co-Chair, Graduate Climate Conference**
University of Washington and MIT
- 2020 **Member, Summer Committee for Social and Environmental Justice**
Campus Sustainability Fund and the UW Resilience Lab
University of Washington
- 2020 **Volunteer, Climate Change // Curiosity Expo**
Exhibit: *Where Does Arctic Ocean Water Come From?*
Pacific Science Center, Seattle, WA
- 2018-2019 **Member, Department Curriculum Committee**
Department of Physics and Astronomy, Carleton College

Teaching, Mentorship, and Communication Experience

- 2023 **Mentor for undergraduate research assistant Alex Patel**
School of Oceanography, University of Washington
- 2021 **Teaching Assistant**
Ocean 285–Physics Across Oceanography: Fluid Mechanics and Waves
School of Oceanography, University of Washington
- 2017-2019 **Problem Solving Facilitator, Grader, Lab Assistant**
Department of Physics and Astronomy, Carleton College
- 2016-2019 **Admissions Blogger**
Carleton College Admissions Office
- 2017 **ACM Communications Assistant**
Associated Colleges of the Midwest, Costa Rica
- 2017 **Summer Student Assistant**
Science Education Resource Center, Carleton College

Workshops

- 2022 **Grid SST Hackathon**
University of Washington

- 2022 **US CLIVAR Whither the Gulf Stream Workshop**
US Climate Variability and Predictability Program
- 2022 **NASA Summer School on Satellite Observations and Climate Models**
JPL Center for Climate Sciences and the Keck Institute for Space
Studies
- 2020 **CESM Tutorial**
National Center for Atmospheric Research (NCAR), virtual