Camille Hankel

crhankel@uw.edu personal website

Dept. of Atmospheric and Climate Science, University of Washington

3920 Okanogan Lane NE, Seattle, WA 98195

Education

Ph.D., Earth and Planetary Sciences, Harvard University. May 2024. *Advisor: Eli Tziperman.*
Secondary Field in History of Science

B.S., Mathematics, Georgetown University, 2018. *Summa cum laude.*

B.A., Computer Science, Georgetown University, 2018.

Positions

Postdoctoral Fellow at the Cooperative Institute for Climate, Oceans, and Ecosystem Studies (CICOES) and the Dept. of Atmospheric and Climate Science at the University of Washington. *Sept. 2024–present*

Teaching

Teaching Fellow, EPS 231: Climate Dynamics, Harvard University, 2023

Teaching Fellow, EPS 131: Introduction to Physical Oceanography and Climate, Harvard University, 2022

Head Teaching Fellow, APM120: Applied Linear Algebra and Big Data, Harvard University, 2020 & 2021

Course Development for EPS 101: Global Warming Science, Harvard University, 2020
In collaboration with my PhD advisor Eli Tziperman I helped develop one unit of this new course, designing the curriculum, generating the instructional text, coding excercises, and figures, and contributing to the publication of a textbook chapter based on the final course materials.

Teaching Assistant, Data Structures, Georgetown University, 2016

Teaching Assistant, Computer Science I & II, Georgetown University, 2015-2016

Awards & Fellowships

NSF Atmospheric and Geospace Sciences Postdoctoral Research Fellowship, 2024

CICOES Postdoctoral Fellowship at the University of Washington, 2024

National Center for Atmospheric Research ASP Postdoctoral Fellowship, 2024 (declined)

Cooperative Institute for Research in Environmental Sciences at the University of Colorado Boulder Postdoctoral Fellowship, 2024 (declined)

AGU Ocean Sciences Section Outstanding Student Presentation Award, Fall Meeting 2023

Recipient of NCAR's Exploratory Allocation Computing Grant, 2023

US CLIVAR Travel Grant to participate in the ENSO Summer School, Trieste, Italy, 2022

Bok Center Certificate of Distinction in Teaching, Harvard University, 2021

Earth and Planetary Sciences Teaching Award, Harvard University, 2020

Harvard Skaff Family Environmental Graduate Fellowship, 2018

Phi Beta Kappa Member, Georgetown University, 2018

Clare Booth Luce Undergraduate Scholarship, Georgetown University, 2016-2018

Manuscripts in preparation/submitted

1. Hankel, Camille and David Bonan. "Impact of CO_2 forcing-rate on the transient evolution of Arctic amplification." *In prep for GRL*
2. Hankel, Camille, and Edward Blanchard-Wrigglesworth. "Increasing boreal fire activity reduces AMOC decline." *In prep for GRL.*
3. Hankel, Camille, Wei Cheng, and Cecilia Bitz. "Arctic sea ice meltwater as a forcing and feedback on the Atlantic Meridional Overturning Circulation." *Under review at Journal of Climate.*

Publications

1. Hankel, Camille. "The effect of CO_2 ramping rate on the transient weakening of the Atlantic Meridional Overturning Circulation." *Proceedings of the National Academy of Sciences* 122.1 (2025): e2411357121. https://doi.org/10.1073/pnas.2411357121
2. Hankel, Camille, and Eli Tziperman. "Assessing the robustness of Arctic sea ice bi-stability in the presence of atmospheric feedbacks." *Journal of Geophysical Research: Atmospheres, 128*, e2023JD039337. https://doi.org/10.1029/2023JD039337
3. Hankel, Camille, and Eli Tziperman. "An approach for projecting the timing of abrupt winter Arctic sea ice loss." *Nonlinear Processes in Geophysics* 30.3 (2023): 299-309. https://doi.org/10.5194/npg-30-299-2023
4. Hankel, Camille, and Eli Tziperman. "Chapter 2: Greenhouse." *Global Warming Science*, Princeton University Press, 2022.
5. Hankel, Camille, and Eli Tziperman. "The Role of Atmospheric Feedbacks in Abrupt Winter Arctic Sea Ice Loss in Future Warming Scenarios." *Journal of Climate* 34.11 (2021): 4435-4447. https://doi.org/10.1175/JCLI-D-20-0558.1
6. Kogay, Roman, et al. "Machine-learning classification suggests that many alphaproteobacterial prophages may instead be gene transfer agents." *Genome biology and evolution* 11.10 (2019): 2941-2953. https://doi.org/10.1093/gbe/evz206

Invited Talks

Scheduled June 2025	Interagency Arctic Research Policy Committee (IARPC) Physical Oceanography Webinar
April 2025	Physical Oceanography Seminar, University of Washington, Seattle

January 2025	Atmospheric and Climate Science Seminar, University of Washington, Seattle
November 2023	Guest Lecture, PHIL-920-1: Philosophy of Science, University of Wisconsin-Madison
October 2023	Workshop on Non-autonomous Dynamics in Complex Systems, Max-Planck Institute for Physics of Complex Systems, Dresden, Germany
September 2023	Max Planck Institute for Meteorology Joint Seminar, Hamburg, Germany
November 2021	Fox-Kemper/Horvat Joint Climate Group, Brown University

Presentations, Posters, and Workshops

December 2019–2024	American Geophysical Union Fall Meeting
September 2023	Dynamics Days Europe
July 2022	3rd Summer School on Theory, Mechanisms and Hierarchical Modeling of Climate Dynamics, International Centre for Theoretical Physics in Trieste, Italy
June 2019 & 2022	22nd & 23rd Conference on Atmospheric and Oceanic Fluid Dynamics
November 2019	13th Graduate Climate Conference, Woods Hole Oceanographic Institute

Outreach & Service

Present	Member of the Committee for Equity, Diversity, and Inclusion, Dept. of Atmospheric and Climate Science, UW
2025	Session Organizer and Co-Chair for "The State and Future of Polar Climate: Insights from Idealized Models, Reanalyses, and Projections", 18th Conference on Polar Meteorology and Oceanography at the 2025 AMS Denver Summit
2024	Session Organizer and Co-Chair for "History and Philosophy of the Geosciences: What's Next?", AGU Fall Meeting 2024
2022–present	Peer Reviewer for *GRL*, *Journal of Climate*, *Journal of Physical Oceanography*, *npj Climate and Atmospheric Science*, and *Environmental Research Letters*
2023	Volunteer for the Harvard EPS Graduate Admissions Application Program: an initiative that offers support and feedback to prospective PhD applicants from groups underrepresented in STEM.
2022–2023	Research Mentor for Harvard Undergraduate Student Nicole Bugliosi
2020–2021	Mentor for the Science Research Mentorship Program (SRMP): a program that aims to introduce local (Cambridge, MA) high-school students from diverse backgrounds to the Earth and Planetary Sciences through year-long research projects.
2020–2022	Member of the Diversity, Inclusion, and Belonging (DIB) History of Racism Subgroup: an effort to lead a reflection on and study of Harvard's own historical legacy of racism.
2020	Mentor for Harvard EPS Short-Term Summer Program: an initiative which aims to recruit undergraduate students from diverse backgrounds to the EPS major at Harvard by offering paid summer research positions.