

Camille Hankel

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Department of Atmospheric and Climate Science, University of Washington
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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.

Current position

Postdoctoral Fellow at the University of Washington, funded by the Cooperative Institute for Climate, Oceans, and Ecosystem Studies (CICOES) and NSF Atmosphere and Geospace Science Fellowships.

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 exercises, 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
EPS 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

Publications

1. Hankel, Camille. “The effect of CO2 ramping rate on the transient weakening of the Atlantic Meridional Overturning Circulation.” *Under Review at PNAS*.
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

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| 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

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| September 2023 | Dynamics Days Europe |
| December 2019–2023 | American Geophysical Union Fall Meeting |
| 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* Session Organizer and Co-Chair for “Idealized Approaches for Understanding Polar Climate”, 18th Conference on Polar Meteorology and Oceanography at the 2025 AMS Denver Summit
- Present* Session Organizer and Co-Chair for “History and Philosophy of the Geosciences: What’s Next?”, AGU Fall Meeting 2024
- 2022-2024 Peer Review for *GRL*, *Journal of Climate*, *Journal of Physical Oceanography*, and *npj Climate and Atmospheric Science*
- 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 our department’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.