

## Camille Hankel

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20 Oxford St., Cambridge, MA 02138

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### Education

Ph.D. Candidate, Earth and Planetary Sciences, Harvard University. 2018-present. *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.

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### 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

Teaching Assistant, Data Structures, Georgetown University, 2016

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

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### Awards & Fellowships

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

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### Publications

1. Hankel, Camille. "The effect of CO2 ramping rate on transient weakening of the Atlantic Meridional Overturning Circulation." *In prep.*
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. In press.
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. "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>

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### 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: Theory and Applications to Critical Transitions, Max-Planck Institute for Physics of Complex Systems |
| September 2023 | Max Planck Institute for Meteorology Joint Seminar, Hamburg, Germany   |
| November 2021  | Fox-Kemper/Horvat Joint Group Meeting, Brown University  |

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### Presentations & Posters

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| September 2023     | Dynamics Days Europe  |
| December 2019–2022 | American Geophysical Union Fall Meeting   |
| June 2019 & 2022   | 22nd & 23rd Conference on Atmospheric and Oceanic Fluid Dynamics                      |
| November 2019      | 13th Graduate Climate Conference, Woods Hole Oceanographic Institute                  |
| November 2017      | National Institute for Mathematical and Biological Synthesis Undergraduate Conference |
| July 2017          | Mathematical Association of America MathFest  |

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### Outreach & Service

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| 2022-2023 | Peer Review for <i>Geophysical Research Letters</i> and <i>Journal of Climate</i> |
| 2023      | Mentor for the Harvard EPS Graduate Admissions Application Program                |
| 2022-2023 | Research Mentor for Harvard Undergraduate Student Nicole Bugliosi                 |
| 2020-2021 | Science Research Mentorship Program (SRMP) Mentor                                 |
| 2020-2022 | Diversity, Inclusion, and Belonging (DIB) History of Racism Subgroup Member       |
| 2020-2022 | Geoclub (departmental student organization) Co-president                          |
| 2021      | Unlearning Racism in the Geosciences (URGE) Harvard EPS Pod Participant           |
| 2020      | Harvard Short-Term Programs summer mentor   |

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### Miscellaneous

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| Summer 2020 | Course Development for EPS 101, Harvard University |
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- In collaboration with my advisor Eli Tziperman I helped develop one unit of a new Harvard course, EPS 101: *Global Warming Science*, on the greenhouse effect. This involved designing the curriculum, writing the instructional material and the coding exercises, and generating the instructional figures. This work also contributed to the eventual publication of a textbook based on the final course materials.