

# 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.*

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

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, and Eli Tziperman. "Greenhouse." *Global Warming Science*, Princeton University Press, 2022.
  2. 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>
  3. 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>
  4. Hankel, Camille, and Eli Tziperman. "Projecting the timing of abrupt winter Arctic sea ice loss." *Submitted to Nonlinear Processes in Geophysics*.
  5. Hankel, Camille, and Eli Tziperman. "Assessing the robustness of Arctic climate bi-stability using a coupled atmosphere-sea-ice model." *In prep*.
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## **Presentations & Posters**

December 2022	American Geophysical Union Fall Meeting
June 2022	23rd Conference on Atmospheric and Oceanic Fluid Dynamics
December 2021	American Geophysical Union Fall Meeting
December 2020	American Geophysical Union Fall Meeting
December 2019	American Geophysical Union Fall Meeting
November 2019	13th Annual Graduate Climate Conference
June 2019	22nd Conference on Atmospheric and Oceanic Fluid Dynamics
November 2017	National Institute for Mathematical and Biological Synthesis Undergraduate Conference
July 2017	Mathematical Association of America MathFest

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## **Work Experience**

Sept 2016 - May 2018	Research Assistant for Dr. Judith Miller, Georgetown University I created mathematical models of a biological co-invasion of two subspecies on a discrete periodic habitat using MATLAB, and ran simulations in order to determine the dependence of long-time population range dynamics on environmental and demographic parameters.
Summer 2017	Data Quality Analytics Research Intern, Stinger Ghaffarian Technologies I developed a python library to distinguish between outliers and errors in large datasets, and applied this package to public transportation data to look for issues in the data quality and collection process.
Summer 2016	Research Assistant, Evolutionary Computational Genomics Lab, Dartmouth College As part of a larger project led by Dr. Olga Zhaxybayeva to identify Gene Transfer Agents (GTAs) in the alphaproteobacteria genome, I helped implement a Support Vector Machine algorithm in python that classifies genes as viral or belonging to a GTA.

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## **Outreach & Service**

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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## **Programming and Software**

Python, Matlab, C++, LaTeX, some R