Camille Hankel

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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.

Teaching

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

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

Publications

1. Hankel, Camille, and Eli Tziperman. "Greenhouse." *Global Warming Science*, Princeton University Press, *in press.*

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

Presentations & Posters

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 Institude for Mathematical and Biological Synthesis Undergraduate Conference
July 2017	Mathematical Association of America MathFest

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 small python library to disinguish 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.

Outreach & Service

2020-2021	Science Research Mentorship Program (SRMP) Mentor
2020-present	Diversity, Inclusion, and Belonging (DIB) History of Racism Subgroup Member
2021	Unlearning Racism in the Geosciences (URGE) Harvard EPS Pod Participant
2020	Harvard Short-Term Programs summer mentor

Programming and Software

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