



Brendan Clark

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Education

Ph.D. , Atmospheric Science	2025
Rutgers University, New Brunswick, NJ	
“Stratospheric sulfate aerosol climate intervention implications for global agriculture”	
M.S. , Atmospheric Science, GPA: 3.90/4.00	2022
Rutgers University, New Brunswick, NJ	
B.S. , Environmental Science	2020
University of Massachusetts, Amherst, MA	

Professional Appointments

Postdoctoral Research Associate, Supervisor: Prof. Daniele Visioni Cornell University, Department of Earth and Atmospheric Sciences	2025-present
Research Assistant, Supervisors: Professors Alan Robock and Lili Xia Rutgers University, Department of Environmental Science	2020-2025

Publications

- B. Clark**, D. Visioni., S. Kothari, M. Lerdau. Dynamic global vegetation models underestimate the impact of atmospheric dryness on European carbon storage, *in prep*
- B. Clark**, A. Robock, L. Xia, S. S. Rabin, J. R. Guarin, J. Jaegermeyr. Stratospheric aerosol climate intervention could reduce crop nutritional value. *Environmental Research Letters*, 20, 114083 (2025). 10.1088/1748-9326/ae1151
- B. Clark**, A. Robock, L. Xia, S. S. Rabin, J. R. Guarin, G. Hoogenboom, J. Jaegermeyr. Maize yield changes under sulfate aerosol climate intervention using three global gridded crop models. *Earth's Future* 13, e2024EF005269 (2025). 10.1029/2024EF005269
- N. Grant, A. Robock, L. Xia, J. Singh, **B. Clark**. Impacts on Indian agriculture due to stratospheric aerosol intervention using agroclimatic indices. *Earth's Future* 13, e2024EF005262 (2025). 10.1029/2024EF005262
- B. Clark**, L. Xia, A. Robock, S. Tilmes, J. H. Richter, D. Visioni, S. S. Rabin. Optimal climate intervention scenarios for crop production vary by nation. *Nature Food* 4, 902–911 (2023). 10.1038/s43016-023-00853-3
- F. Bowlick, **B. Clark**, et al. Understanding geocomputation education: A survey and syllabi informed review. *Research in Geographic Education* 23, 20-51 (2022).

Funding and Awards

- Climate Intervention Network Travel Award (\$1,000) 2025
- NSF NCAR Exploratory Allocation Award (500,000 CPU hours) 2025
- GeoMIP Annual Meeting Travel Funding Award (\$3,500) 2025
- Rutgers Atmospheric Science Student Travel Support Award (\$1,500) 2024
- Rutgers Atmospheric Science Student Travel Support Award (\$1,200) 2023

- Rutgers Climate Institute Student Travel Support Award (\$1,000) 2022
- NSF NCAR University Small Allocation Award (200,000 CPU hours) 2022
- Governor's Award in Recognition of Environmental Stewardship 2019
- John and Abigail Adams Scholarship Award (\$7,000) 2016
- Stanley Z. Koplik Certificate of Mastery with Distinction Award 2016

Teaching & Mentorship Experience

- Graduate Student Mentor, Cornell University 2025-present
- Guest Lecturer, Climate Modeling, Rutgers University Fall 2023
- Teaching Assistant, Geographic Information Systems, UMass Amherst Fall 2019
- Substitute Teacher, Algonquin Regional High School, Northborough, MA 2018-2019

First Author Presentations

Talks

Gordon Research Seminar on Climate Engineering, *invited* (Italy, 2024), American Geophysical Union (San Francisco, 2023), Agricultural Modeling Intercomparison Project Meeting (Columbia University, 2023), Solar Climate Intervention Virtual Symposium, *invited* (University of Exeter, 2023), Climate Engineering in Context (University of Potsdam, 2022), NCAR Land Modeling Working Group Meeting (Boulder, 2022), Inter-sectoral Impact Model Intercomparison Project Meeting (University of Potsdam, 2022)

Posters

DEGREES Global Forum (South Africa, 2025), American Geophysical Union (D.C., 2024), Geoengineering Modeling Intercomparison Project Meeting (Cornell, 2024), Gordon Research Conference on Climate Engineering (Italy, 2024), Geoengineering Modeling Intercomparison Project Meeting (University of Exeter, 2023), Gordon Research Conference on Climate Engineering (Maine, 2022), American Geophysical Union (Chicago, 2022), American Geophysical Union (New Orleans, 2021)

Service

- Refereeing: Atmospheric Chemistry and Physics, JGR - Atmospheres, Environmental Research: Climate 2020-present
- Physicists Coalition for Nuclear Threat Reduction 2020-present
- Science Policy and Advocacy at Rutgers 2020-2024

Participation in International Experiments

- Agricultural Modeling Intercomparison Project 2020-present
- Global Gridded Crop Modeling Intercomparison Project 2020-present
- Geoengineering Modeling Intercomparison Project 2020-present
- Climate Intervention Biology Working Group 2020-present
- Inter-Sectoral Impact Model Intercomparison Project 2020-present