Brendan Clark

Department of Environmental Science
Rutgers University

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CURRENT APPOINTMENT

PhD Candidate | Rutgers University | Department of Environmental Science
New Brunswick, NJ | 2020-2024 *expected*
Advisor: Alan Robock

Research Associate | Rutgers Impact Studies of Climate Intervention (RISCI) laboratory

EDUCATION

M.S. | Atmospheric Science | Rutgers University | 2022

B.S. | Environmental Science | University of Massachusetts Amherst | 2020
John and Abigail Adams Scholarship

PUBLICATIONS

"The Optimal Climate Intervention Scenario for Crop Production Varies by Nation". **B. Clark**, L. Xia, A. Robock, S. Tilmes, D. Visioni, J. H. Richter, Sam S. Rabin, *Nature Food, in review*

PRESENTATIONS

Talks

"Crop Impacts from Stratospheric Aerosol Injection: A Multi-Scenario Overview"
ISIMIP-GGCMI Workshop | University of Potsdam, Germany (virtual) | May 2022

"Discrepancies Between Fully Coupled and Offline CLM5 Crop Simulations"
NCAR Land Modeling Working Group Meeting | Boulder, CO (virtual) | January-February 2022

"Depicting Information and Remembering Your Audience: Impacts on Crop Production from Stratospheric Aerosol Climate Intervention"
Climate Engineering in Context Conference | University of Potsdam, Germany (virtual) | October 2021

Posters

"Can Crop Production be used as a Metric to Design Climate Intervention?"
American Geophysical Union | Chicago, IL | December 2022

"Impacts on Crop Production from Stratospheric Aerosol Injection"
American Geophysical Union | New Orleans, LA | December 2021

"Impacts on Crop Production from Stratospheric Aerosol Climate Intervention: A Multi-Scenario Overview"
Gordon Research Conference | Newry, ME | June 2022

RESEARCH EXPERIENCE

Graduate Research Assistant | Dr. Alan Robock | New Brunswick, NJ | 2020-present

- Researching climate change and climate intervention impacts on crop production and ecological systems

Undergraduate Research Assistant | Dr. Matthew Winnick | Amherst, MA | 2019-2020

- Analyzed methane and nitrous oxide emissions from shale samples using gas chromatography

Undergraduate Research Assistant | Dr. Forrest Bowlick | Amherst, MA | 2018-2019

- Created a survey and conducted interviews to understand how ecology professionals are utilizing GIS tools to adapt to climate change

TEACHING EXPERIENCE

Teaching Assistant | Geographic Information Systems
UMass Amherst | Fall 2019

Substitute Teacher
Algonquin Regional High School | 2019

HONORS AND AWARDS

Governor's Citation in Recognition of Energy and Environmental Stewardship in Massachusetts | August 2019

Stanley Z. Koplik Certificate of Mastery with Distinction Award | May 2016

PROFESSIONAL MEMBERSHIPS

Agricultural Modeling Intercomparison (AgMIP)
New York, New York | 2023-present

Global Gridded Crop Model Intercomparison (GGCMI)
New York, New York | 2022-present

Geoengineering Model Intercomparison (GeoMIP)
New Brunswick, NJ | 2022-present

Science Policy and Advocacy at Rutgers (SPAR) Committee
New Brunswick, NJ | 2021-present

American Geophysical Union
Atmospheric Sciences Section | 2020-present

Physicists Coalition for Nuclear Threat Reduction
College Park, MD | 2020-present

Climate Intervention Biology Working Group
New Brunswick, NJ | 2020-present