# Brendan Clark

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## EXPERIENCE

**Cornell University | Ithaca, NY**
Postdoctoral Research Associate (2025-present)

- Researching the effects of atmospheric dryness on tree growth using the Functionally Assembled Terrestrial Ecosystem Simulator (FATES) and statistical modeling from dendrometer observations
- Conducting research in partnership with CarbonPlan doing statistical downscaling of Earth system model simulations of climate change and solar radiation modification scenarios

**Rutgers University | New Brunswick, New Jersey**
Graduate Research Assistant (2020-2025)

- Simulated impacts to regional agriculture production and nutritional quality under climate change and solar radiation modification scenarios using the Community Earth System Model (CESM)
- Led multiple projects managing teams of 6-7 researchers and published findings as lead author studies in the peer reviewed journals *Nature Food, Earth's Future,* and *Environmental Research Letters*
- Presented findings at 15 national and international conferences, workshops, and seminars

**Undergraduate Research Experience**

- Used gas chromatography to analyze trace gas measurements from shale samples to determine greenhouse gas emissions from fracking
- Created and conducted a survey to understand how GIS, computer science, and programing is being taught by geocomputation instructors

## EDUCATION

**University of Massachusetts**
B.S. Environmental Sciences, 2020

**Rutgers University**
M.S. Atmospheric Sciences, 2022

**Rutgers University**
Ph.D. Atmospheric Sciences, 2025

## SKILLS

- Research
- Scientific writing
- Data visualization
- Cross-disciplinary collaboration
- Project planning and workflow management
- Presentations for technical and non-technical audiences

## SOFTWARE AND PROGRAMMING EXPERIENCE

- Python (xarray, numpy, matplotlib, cartopy packages)
- High performance computing
- Bash / Shell scripting
- Linux / Unix
- Git / Github
- MATLAB
- Fortran
- ArcGIS
- Excel
- HTML