

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 research projects, overseeing teams of up to seven researchers, and published lead-author articles in peer-reviewed journals including *Nature Food*, *Earth's Future*, and *Environmental Research Letters*
- Presented research 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
- Designed and administered a survey to assess how GIS, computer science, and programming are taught by geocomputation instructors

EDUCATION

Rutgers University

Ph.D. Atmospheric Sciences, 2025

Rutgers University

M.S. Atmospheric Sciences, 2022

University of Massachusetts

B.S. Environmental Sciences, 2020

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