

# Brendan Clark

bjc328@cornell.edu | bjc204.github.io

## 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 and creating a set of python notebooks for users to analyze data and create scientific figures

### Rutgers University | New Brunswick, New Jersey

Graduate Research Assistant (2020-2025)

- Simulated impacts to regional agriculture production and nutritional quality under climate change using the Community Earth System Model
- 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 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 being 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
- Problem solving

## SOFTWARE AND PROGRAMMING EXPERIENCE

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