

# Daniel A Bishop

## Weather & Climate Data Scientist

 New York, NY  
 (631) 418-6769  
 [danielabishop.github.io](https://danielabishop.github.io)  
 @dbishop0713  
 [www.linkedin.com/danielabishop](https://www.linkedin.com/danielabishop)  
 [dbishop@ldeo.columbia.edu](mailto:dbishop@ldeo.columbia.edu)

## Awards

2017-2020, NASA Earth and Space  
Sciences Fellowship

2016, Columbia University Dean's  
Fellowship

2013, Northeastern States Research  
Cooperative Grant

## Interests

Risk Assessment  
Water Resources  
Drought  
Climatology  
Data Analytics

## Technical Skills

### Expert

Matlab  
R

### Intermediate

Python  
Unix/Linux shell  
Jupyter  
ArcGIS  
L<sup>A</sup>T<sub>E</sub>X

### Certifications & Short Courses

Machine Learning (2019)  
Likelihood Methods in Ecology (2012)

## Teaching

Spring 2020, Regional Climate and  
Climate Impacts

Spring 2019, Dynamics of Climate

Fall 2017, Quantitative Models of  
Climate-Sensitive Natural and Human  
Systems

Summer 2009, Satellite Remote  
Sensing in Biological Oceanography

## Education

2016- Ph.D. candidate, M.Phil, M.A. Columbia University, New York, NY  
Earth and Environmental Sciences  
2011-2013 M.Sc. SUNY ESF, Syracuse, NY  
Forest and Natural Resources Management  
2006-2010 B.Sc. Cornell University, Ithaca, NY  
Atmospheric Science

## Relevant Experience

2016- Graduate Research Assistant Columbia University, New York, NY  
♦ Used MATLAB & R to investigate nature and causes of seasonal precipitation increases in the eastern US and long-term increases in soil moisture gradients across the contiguous US.  
♦ Published two dissertation chapters, awarded competitive NASA graduate research fellowship, & served two years on Lamont's BPE Division Seminar Committee.  
2014-2016 Research Assistant Harvard Forest, Petersham, MA  
♦ Used R to model precipitation, forest composition, & terrestrial carbon sequestration using tree-ring proxy data, & evaluate changing frequency of rainfall events in eastern US.  
♦ Developed & maintained a tree-ring width database, co-managed tree-ring lab, wrote peer-reviewed manuscripts, co-advised undergraduate projects, & co-led research field campaigns.  
2011-2013 Graduate Research Assistant SUNY ESF, Syracuse, NY  
♦ Used R to evaluate the impacts of climate & acid rain on forests of the northeastern United States.  
♦ Used R & ArcGIS to evaluate uncertainty in gridded temperature products using weather station data.  
♦ Developed media outreach skills, awarded competitive graduate research grant, & published two thesis chapters.

## Selected Publications

2019 Bishop et al. [Increased fall precipitation in the southeastern United States driven by higher-intensity, frontal precipitation.](#) *GRL*.  
2019 Bishop et al. [Investigating the causes of increased twentieth-century fall precipitation over the southeastern United States.](#) *J Climate*.  
2015 Bishop et al. [Regional growth decline of sugar maple \(\*Acer saccharum\*\) and potential causes.](#) *Ecosphere*.  
*Select Media Coverage:* [WAMC Northeast Public Radio](#), [Smithsonian Magazine](#), [Popular Science](#), [Modern Farmer](#).  
2015 Bishop & Pederson. [Regional variation of transient precipitation and rainless-day frequency across a subcontinental hydroclimate gradient.](#) *Journal of Extreme Events*.  
2013 Bishop & Beier. [Assessing uncertainty in high-resolution spatial climate data across the US Northeast.](#) *PLoS ONE*.

## Selected Science Communication

[Quantifying the drivers of regional hydroclimate change from the fall-season North Atlantic Subtropical High.](#) 2019 AGU Fall Meeting, San Francisco, CA.

[Fall wetting in the southeastern US driven by higher-intensity frontal precipitation.](#) 2018 AGU Fall Meeting, Washington, DC.

[Assessing the causes of 20th century wetting in the eastern United States.](#) 2017 AGU Fall Meeting, New Orleans, LA.