

Daniel A Bishop

Weather & Climate Data Scientist

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Awards

2017-2020, NASA Earth and Space
Sciences Fellowship

2016, Columbia University Dean's
Fellowship

2013, Northeastern States Research
Cooperative Grant

Interests

Climate Impacts
Hydroclimatology
Drought & Flood Risk
Global Change
Forest Ecology & Dendrochronology
Meteorology
Data Analytics

Technical Skills

Proficient

Matlab
R

Experienced

Python
Jupyter
ArcGIS
L^AT_EX

Certifications & Short Courses

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

Service

2016-2020, 7 peer reviews for
scientific journals

2017-2019, Lamont Biology & Paleo
Environment Division Seminar Series,
Organizing Committee

2016-2020, Provided talks and tours
for students and educators for
Lamont Open House, Earth2Class
Workshop, & Tree Ring Lab

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
♦ Investigated causes of trends in Southeast US precipitation and
contiguous US soil moisture using observations, reanalyses, model
simulations, hydrologic models, and tree-ring proxy data.
♦ Published two dissertation chapters, awarded competitive NASA
graduate research fellowship, research highlighted in press release,
& served two years on Lamont's BPE Division Seminar Committee.
2014-2016 Research Assistant Harvard Forest, Petersham, MA
♦ Modeled 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, worked with
supervisor to manage tree-ring lab, co-advised two undergraduate
projects, & co-led research field campaigns.
2011-2013 Graduate Research Assistant SUNY ESF, Syracuse, NY
♦ Assessed the impacts of climate & acid rain on forests of the
northeastern United States.
♦ Evaluated 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 Conference Presentations

[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.