

# Claire Zarakas

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## Education

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- 9/2018 - Present **University of Washington** | Seattle, WA  
Ph.D. Student in Atmospheric Sciences  
Advisor: Dr. Abigail Swann
- 9/2012 - 5/2016 **Princeton University** | Princeton, NJ  
A.B. in Geosciences, Certificate in Environmental Studies  
Summa Cum Laude

## Research Interests

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Biosphere-atmosphere interactions. Earth System and ecosystem modeling. Carbon cycle. Terrestrial hydrologic cycle. Environmental policy.

## Research Experience

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- 9/2018 - Present **Ecoclimate Lab, University of Washington** | Seattle, WA  
Graduate Student Research Assistant
- 9/2015 - 5/2016 **Medvigy Group, Princeton Geosciences** | Princeton, NJ  
“Propagating Uncertainty from Plant Traits to Ecosystem Dynamics in a Dry Tropical Forest”
- 5/2015 - 7/2015 **Geophysical Fluid Dynamics Laboratory, NOAA** | Princeton, NJ  
Hollings Scholar Intern, Mentored by Elena Shevliakova
- 2/2015 - 5/2015 **Ward Group, Princeton Geosciences** | Princeton, NJ  
“Spatial and Seasonal Variations in the Size Structure of North Atlantic Phytoplankton Assemblages”
- 9/2014 - 1/2015 **Medvigy Group, Princeton Geosciences** | Princeton, NJ  
“Do Nitrogen-Herbivory Feedbacks Constrain the Tropical Forest Carbon Sink?”
- 6/2013 - 8/2013 **Princeton Environmental Institute** | El Giral, Panama and Princeton, NJ  
Intern, “Feedbacks Between Tropical Forests, Climate, and Earth’s Carbon Budget”

## Policy and Nonprofit Experience

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- 8/2016 - 7/2018 **Abt Associates** | Cambridge, MA  
Associate Analyst (12/2017 - 7/2018)  
Research Assistant (8/2016 - 12/2017)
- 6/2014 - 8/2014 **Environmental Defense Fund** | San Francisco, CA  
Natural and Social Sciences Research Intern
- 6/2012 - 8/2012 **Essex County Greenbelt Association** | Essex, MA  
Forest Foundation Fellow

# Claire Zarakas

6/2011 - 5/2012 **ProPeru / Princeton Bridge Year Program** | Urubamba, Peru  
Bridge Year Volunteer

## Publications

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### **Publications in Review:**

Zarakas, C., Swann, A.L.S., Laguë, M.M., Armour, K.C., & Randerson, J.T. (In Review). Plant Physiology Increases Magnitude and Spread of the Transient Climate Response in CMIP6 Earth System Models, preprint doi:[10.31223/osf.io/emgxb](https://doi.org/10.31223/osf.io/emgxb).

### **Peer-Reviewed Publications:**

Wobus, C., Zarakas, C., Malek, P., Sanderson, B., Crimmins, A., Kolian, M., Sarofim, M., & Weaver, C.P. (2018). Reframing Future Risks of Extreme Heat in the United States. *Earth's Future*, 6(9), 1323-1335, doi:[10.1029/2018EF000943](https://doi.org/10.1029/2018EF000943).

Sanderson, B.M., Wobus, C., Mills, D., Zarakas, C., Crimmins, A., Sarofim, M.C., & Weaver, C. (2019). Informing Future Risks of Record-Level Rainfall in the United States. *Geophysical Research Letters*, 46(7), 3963-3972, doi:[10.1029/2019GL082362](https://doi.org/10.1029/2019GL082362).

## Presentations

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2019	American Geophysical Union, <i>San Francisco, CA</i>	Poster
2015	American Geophysical Union, <i>San Francisco, CA</i>	Poster
2015	NOAA Student Science and Education Symposium, <i>Silver Spring, MD</i>	Talk
2015	Geophysical Fluid Dynamics Laboratory Seminar, <i>Princeton, NJ</i>	Talk

## Honors and Awards

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2019 - 2023	Department of Energy Computational Science Graduate Fellowship
2018 - 2019	National Science Foundation Graduate Research Fellowship*
2018 - 2019	UW Program on Climate Change Graduate Fellowship
2018	UW Department of Atmospheric Sciences Top Scholar Award
2018	Abt Associates Technical Innovation Award
2016	Abt Associates Spot Recognition Award
2016	Sigma Xi Book Award, Department of Geosciences, Princeton University
2016	Elected to membership in the Sigma Xi Society
2014 - 2016	National Oceanic and Atmospheric Administration Hollings Scholarship
2015	Princeton University Benjamin F. Howell Class of 1913 Prize

*\*declined fellowship support beyond 2019 in order to accept DOE CSGF*

## Service and Outreach

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2020 - Present	Graduate Climate Conference Planning Committee
2019 - Present	UW Graduate and Professional Student Senate ( <i>Department Representative</i> )
2019 - Present	UW Program on Climate Change Graduate Student Steering Committee
2018 - Present	Girls in Science outreach program, Burke Museum of Natural History
2014 - 2015	Princeton Women in Science Colloquium ( <i>Co-President</i> )
2013 - 2015	Princeton Sustainable Engineering and Development Scholars Program ( <i>Co-Director</i> )
2013 - 2014	Princeton "Climate Change Policy: Susceptibility and Responses of Cities" Breakout Trip ( <i>Trip Leader</i> )
2015 - 2016	Princeton Peer Academic Advisor

# Claire Zarakas

2012 - 2016 Princeton Pace Council for Civic Values (*Board Member*)  
2012 - 2016 Petey Greene Prisoner Assistance Program (*Volunteer*)

## Skills

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**Programming languages:** Python, MATLAB, R, ArcGIS

**Spoken languages:** English (native), Spanish (fluent)

## Conferences and Workshops Attended

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2019 American Geophysical Union (AGU) Fall Meeting, *San Francisco, CA*  
2019 UW Program on Climate Change Summer Institute, *Friday Harbor, WA*  
2019 DOE Computational Science Graduate Fellowship Annual Program Review,  
*Arlington, VA*  
2019 Community Terrestrial Systems Model (CTSM) Tutorial, National Center for  
Atmospheric Research (NCAR), *Boulder, CO*  
2018 UW Program on Climate Change Summer Institute, *Friday Harbor, WA*  
2015 American Geophysical Union (AGU) Fall Meeting, *San Francisco, CA*  
2015 NOAA Student Science and Education Symposium, *Silver Spring, MD*