

Catherine A. Pomposi
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Department of Earth and Environmental Sciences
Columbia University
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Research Interests

I am broadly interested in regional climate and climate change, specifically with regards to the hydrologic cycle and its impacts on societies. My current research aims to better understand past and future hydrologic changes in the Sahel region of Africa.

Education

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| 2011- present | Columbia University , New York, NY
Graduate Research Fellow
Major: Atmospheric Science
Advisors: Dr. Yochanan Kushnir, Dr. Alessandra Giannini, Dr. Adam Sobel |
| 2007-2010 | University of Connecticut , Storrs, CT
B.S. (<i>Magna cum Laude</i>) in Environmental Analysis (Individualized Major) and Statistics
Advisor: Dr. Anji Seth |
| 2006-2007 | Boston University , Boston, MA
Undergraduate Study, undeclared major |

Fellowships and Awards

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| 2014 | National Science Foundation (NSF) and United States Agency for International Development (USAID), Research and Innovation Graduate Fellowship, Award Recipient |
| 2013 | Columbia University, Department of Earth and Environmental Sciences, Sara Langer Memorial Book Prize, Award Recipient |
| 2011 | National Science Foundation, Graduate Research Fellowship Program, Award Recipient |

Publications

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| Jun 2014 | “Climate Science for Senegalese Farmers,” High-End Climate Impacts and Extremes (HELIX) Blog Post, accessed: http://helixclimate.eu/en/news/-/blogs/climate-science-for-senegalese-farmers |
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Feb 2014 "Moisture Budget Analysis of SST-Driven Decadal Sahel Precipitation Variability in the 20th Century," Climate Dynamics, submitted.

Research Experience

2012- present Sahel Monsoon Variability

2010 North American Monsoon Research complementing the work of Dr. Anji Seth

2010 University of Connecticut Honors Thesis
"Exploring the relationship between the Mediterranean Drought and Asian Monsoon in 21st Century Climate Models"

Presentations

Dec 2013 American Geophysical Union, Fall Meeting
"Experiences in the New York Academy of Science's STEM Mentoring Program," *Invited Speaker*

Dec 2013 American Geophysical Union, Fall Meeting
"Sahel Rainfall Variability as simulated by the CAM4 Model and its Associated Atmospheric Dynamics"

Dec 2012 American Geophysical Union, Fall Meeting
"The West African Monsoon: Understanding Sahel Rainfall Variability in the 1980s and 1990s"

April 2010 University of Connecticut, Frontiers in Undergraduate Research Poster Presentation

Teaching Experience

Spring 2014 W4404: Teaching Assistant, Regional Climate and Climate Impacts
Columbia University, Department of Earth and Environmental Science, Master's Program in Climate and Society

Fall 2012 V1003: Teaching Assistant, Climate and Society: Case Studies
Columbia University, Department of Earth and Environmental Sciences

Fall 2011 W4401: Teaching Assistant, Quantitative Models of Climate-Sensitive Natural and Human Systems
Columbia University, Department of Earth and Environmental Sciences, Master's Program in Climate and Society

Outreach and Professional Activities

Fall 2012, 2013 New York Academy of Science

Education Fellow for STEM disciplines

- May 2012 Platt High School, Meriden, CT
Guest Speaker: Greenhouse Effect and Climate Change
- May 2012-2014 Columbia University, Department of Earth and Environmental Sciences
Co-Chair, Graduate Student Committee
- Sept. 2011, 2012 Lamont-Doherty Earth Observatory
Open House Volunteer
- Sept. 2011- present Columbia University, Women in Science and Engineering
Member
- May 2008-Dec. 2010 University of Connecticut, Office of Environmental Policy
Student Intern
- Jan. 2008-May 2008 University of Connecticut, Counseling Program for Intercollegiate Athletes
Peer Tutor
- Sept. 2007-Dec. 2010 University of Connecticut, EcoHusky Student Organization
Member, Secretary, and Vice-President

Professional Affiliations

- Aug. 2012- present Student Member, American Geophysical Union

Workshops and Professional Development

- June 2013 American Geophysical Union, Science Policy Conference,
Participant
- Nov 2012 Climate Dynamics of Tropical Africa Workshop, Johns Hopkins University, *Participant*

Relevant Coursework

Introduction to Physical Geography, Advanced Physical Geography, Climate and Weather, Meteorology, Human Interactions with the Natural Environment, Environmental Evaluation and Assessment, Quantitative Methods in Data Analysis, Introduction to Atmospheric Science, Partial Differential Equations, Geophysical Fluid Dynamics, Earth's Oceans and Atmosphere, Tropical Meteorology, *Seminar on The Warming Papers*, Physical Hydrology, Introduction to Terrestrial Paleoclimate, Climate Dynamics, Introduction to Atmospheric Chemistry, Atmospheric Dynamics

Computer Skills

Matlab, Microsoft Office, INGRID (International Research Institute for Climate and Society Data Library)