



Dr. Amy Clement

- Professor, Department of Atmospheric Science
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Biography

Dr. Amy Clement earned her Bachelor's degree in Physics from Columbia College, and Ph.D. from the Department of Earth and Environmental Science at Columbia University, where she studied climate dynamics on multiple timescales, from the glacial period to future climate change. After a postdoctoral fellowship at the University of Pierre and Marie Curie in Paris, France, she joined the faculty of the Rosenstiel School in 2001, where she helped to build a widely respected climate research group made up of faculty, research staff, and students. Clement also served as Associate Dean for Graduate Studies at the Rosenstiel School.

Clement is a Fellow of the American Meteorological Society and the American Geophysical Union. For her research, she was awarded the AMS Clarence Leroy Meisinger award, the AGU James B. Macelwane Medal, and the 2019 University of Miami Provost's award for Scholarly Activity. Clement was also awarded the Rosenstiel School Outstanding Faculty Mentor Award, a student-nominated award that is awarded to mentors who go above and beyond to ensure the success of their students. She is currently serving as the President of the Atmospheric Science Section of the American Geophysical Union. Clement conducts experiments with climate models of varying complexity that allow her to deconstruct the mechanisms of climate change and understand their basic processes. This has led to revisions in our understanding of the role of the ocean and clouds in climate variability. Her most recent work has focused on Atlantic climate variability and predictability, including sea level rise and changes in extreme heat and rainfall.

While her research expertise and main teaching and mentoring is in the physical aspects of climate, Dr. Clement has developed multi-disciplinary curricula on 'Climate and Society,' and has co-taught a graduate course on this topic since 2002. Most recently, Clement has been engaged in leading research and action on climate change adaptation in South Florida as principal investigator on two University of Miami ULINK interdisciplinary projects, and through her role as co-founder and co-director of the Resilient 305 Collaborative, member of the Board of Directors of Miami Waterkeeper, and former Chair of the City of Miami's Climate Resilience advisory board.