

Jeremy M. Klavans

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EDUCATION

- University of Miami Rosenstiel School of Marine and Atmospheric Science** Miami, FL
2015 – Present
- Ph.D. in Meteorology and Physical Oceanography
 - Thesis: Toward a Conceptual Model of Low-frequency Atlantic SST Variability
 - Advisor: Professor Amy C. Clement
- University of Chicago Harris School of Public Policy** Chicago, IL
2012 – 2014
- M.S. in Environmental Science and Policy with Honors
 - Thesis: The Influence of Model Resolution on Temperature Variability
 - Advisors: Professors Elisabeth J. Moyer and Robert Rosner
- University of Miami** Coral Gables, FL
2007 – 2011
- B.A., *cum laude*, in Ecosystem Science and Policy & Political Science with Departmental Honors

RESEARCH EXPERIENCE

- University of Miami Rosenstiel School of Marine and Atmospheric Science** Miami, FL
Graduate Researcher 2015 – Present
- Quantified the role of ocean dynamics in North Atlantic climate variability through the use of a model hierarchy
 - Explored potential mechanisms for shifts in NAO extremes with ocean model complexity
 - Estimated the magnitude and predictability of NAO-AMV relationship in climate models
- Center for Robust Decision Making on Climate and Energy Policy** Chicago, IL
Research Assistant 2013 – 2015
- Assessed the influence of model resolution on the statistics of both local and global climate at all timescales
 - Developed decision-maker/citizen support tools focusing on climate and energy policy (e.g. [RPS Calculator](#))
 - Contextualized and clarified scientific and economic models into content for a general audience (e.g. [webDICE](#))
- Bulletin of the Atomic Scientists** Chicago, IL
Research Assistant 2013 – 2015
- Compiled country-level data on the cost of n^{th} -of-a-kind advanced fuel cycle reactors
 - Designed [online tool](#) to model and compare electricity costs of each fuel cycle for each country

PROFESSIONAL EXPERIENCE

- Maryland Department of the Environment, Water Management Administration** Baltimore, MD
Compliance and Policy Analyst 2012
- Collaborated with Compliance Engineers to ensure adequate drinking water quality
 - Distilled water policy for Marcellus Shale Safe Drilling Initiative and the Interstate Commission on the Potomac River Basin
- Beta Analytic** Miami, FL
Laboratory Technician 2011
- Assisted in the chemical preparation of samples for both the Accelerator Mass Spectrometry and Liquid Scintillation Counting methods of radiocarbon dating
 - Analyzed bio-based samples used to determine the renewable carbon content of submitted products
- World Wide Wind Development, LLC** Miami Beach, FL
Policy Analysis Intern 2010 – 2011
- Evaluated and projected the impact of proposed state energy policies on siting, grid-integration, and company revenues
 - Interfaced with local and state politicians in order to influence state energy policy and renewable energy ordinances
- Mountain Gorilla Veterinary Project** Baltimore, MD
Laboratory Assistant 2006 – 2007
- Traced malaria through gorilla family groups by analyzing blood, fecal, and other bodily samples
 - Wrangled penguins

TEACHING EXPERIENCE

University of Miami Rosenstiel School of Marine and Atmospheric Science	Miami, FL
Teaching Assistant, Climate and Global Change (Professors Lisa Beal and Igor Kamenkovich)	2017
• Lectured on paleoclimate, climate models, and climate policy. Led laboratory work. Evaluated student performance.	
Teaching Assistant, Department of Meteorology (Professor Anthony Hynes)	2016
• Counseled Meteorology undergraduates on coursework, research, and professional advancement	
University of Chicago Harris School of Public Policy	Chicago, IL
Teaching Assistant, Decisions and Organizations (Professor Pablo Montagnes)	2014
• Lectured weekly and hosted review sessions for graduate level course	

PUBLICATIONS

- Klavans, Jeremy M., Amy C. Clement, and Mark A. Cane. 2019. "Variable External Forcing Obscures the Weak Relationship between the NAO and North Atlantic Multidecadal SST Variability." *Journal of Climate* 32 (13): 3847–64. <https://doi.org/10.1175/JCLI-D-18-0409.1>
- Klavans, Jeremy M., Andrew Poppick, Shanshan Sun, and Elisabeth J. Moyer. 2017. "The Influence of Model Resolution on Temperature Variability." *Climate Dynamics* 48 (9–10): 3035–45. doi:10.1007/s00382-016-3249-6

PRESENTATIONS

- Klavans, Jeremy M., Amy C. Clement, and Lisa N. Murphy. "The AMO and Florida Precipitation". Development of Unified Rainfall Scenarios for Florida Workshop, Miami, FL, 2019.
- Klavans, Jeremy M., Amy C. Clement, and Mark A. Cane. "Variable External Forcing Obscures the Weak Relationship between the NAO and North Atlantic Multi-decadal SST Variability". American Geophysical Union Fall Meeting, Washington, D.C. 2018.
- Klavans, Jeremy M., Amy C. Clement, and Mark A. Cane. "Variable External Forcing Obscures the Weak Relationship between the NAO and North Atlantic Multi-decadal SST Variability". Held Symposium, Princeton, NJ, 2018.
- Klavans, Jeremy M., Amy C. Clement, and Mark A. Cane. "Variable External Forcing Obscures the Weak Relationship between the NAO and North Atlantic Multi-decadal SST Variability". 2018 International AMOC Science Meeting, Miami, FL, July 2018.
- Klavans, Jeremy M., and Amy C. Clement. "Estimating the Magnitude of the Lagged SST Response to the North Atlantic Oscillation." American Meteorological Society 98th Annual Meeting, Austin, TX, 2018.
- Klavans, Jeremy M., and Amy C. Clement. "The Contribution of Ocean Dynamics to Interannual North Atlantic Climate Variability" American Geophysical Union Fall Meeting, San Francisco, CA, 2016.
- Klavans, Jeremy M., and Amy C. Clement. "The Contribution of Ocean Dynamics to Interannual North Atlantic Climate Variability." Model Hierarchy Workshop, Princeton, NJ, 2016.
- Klavans, Jeremy M., and Amy C. Clement. "The Role of Thermal Coupling in Low Frequency North Atlantic Climate Variability." Graduate Climate Conference, Seattle, WA, 2016.

UNIVERSITY AND CIVIC SERVICE

- Science advisor for PBS's *NOVA* "Prediction by the Numbers" (2018)
- Panelist for premier of PBS's *Changing Seas* "The Fate of Carbon" (2018)
- Lab Coach for Frost Science IMPACT program (2018)
- Leader of RSMAS Climate Research Group (reading, research, and outreach group)
- MPO Department Student Representative (2017 – 2019)
- Student Coordinator for prospective graduate student visitation weekend, University of Miami (2018 - 2019)
- Member of Best Student Seminar Committee, University of Miami (2017 - 2018)
- Former staff writer for the Chicago Policy Review, former board member for the Chicago Environmental Policy Association
- Undefeated championship coach of 13 – 15-year-old co-ed flag football league
- Eagle Scout

HONORS AND SKILLS

- 2017-2018 RSMAS TA Excellence Award
- University of Miami Fellowship (highest award offered by UM Graduate School)
- Academic scholarships at the University of Chicago (M.S.) and University of Miami (B.A.)
- Programming languages: Matlab, Python, Bash, LaTeX, HTML, CSS
- Software: MS Office Suite (Word, Excel, Powerpoint), Stata, SPSS, Photoshop, ArcGIS