

Curriculum Vitae

Robert West

Postdoctoral Associate
Northern Gulf Institute
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NOAA/AOML/PhOD
4301 Rickenbacker Cswy
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Education

Florida State University, Tallahassee, FL, USA

Ph.D., Meteorology, 2020

Dissertation title: *An evaluation of non-Gaussian climate statistics*

Area of Study: Global non-Gaussian climate statistics within a stochastic framework

Adviser: Philip Sura

M.S., Meteorology, 2012

Thesis Title: *Power law behavior of atmospheric variability*

Area of Study: Distributions of extreme events in non-Gaussian climate data

Adviser: Philip Sura

B.S., Meteorology and Applied Mathematics, 2009

Research

Positions

Northern Gulf Institute, Mississippi State University and NOAA/AOML/PhOD, Miami, FL, USA

Jul. 2020 - present: Postdoctoral Associate

Florida State University, Dept. of Earth, Ocean and Atmospheric Science, Tallahassee, FL, USA

Aug. 2009 - Dec. 2013: Graduate Research Assistant (with Philip Sura)

May 2008 - Aug. 2009: Undergraduate Researcher (with Ming Cai)

Interests

Climate variability, especially in the tropical Atlantic

Changes in tropical cyclone activity

Seasonal to sub-seasonal hurricane forecasting

Stochastic models of climate variability

Statistical analysis and predictability of extreme atmosphere and ocean events

Publications

Peer-Reviewed Journals and Conferences

Hosmay Lopez, Robert West, Shenfu Dong, Gustavo Goni, Ben Kirtman, Sang-Ki Lee and Robert Atlas, “Early emergence of anthropogenically forced heat waves in the western United States and Great Lakes”, *Nature Climate Change*, **8**, 414–420 (2018), <https://doi.org/10.1038/s41558-018-0116-y>.

Manuscripts in Preparation

Robert West, Hosmay Lopez, Sang-Ki Lee, Andrew E. Mercer, Dongmin Kim, Gregory R. Foltz and Karthik Balaguru, “Seasonality of interbasin SST contributions to Atlantic tropical cyclone activity”, in preparation for submission to *Geophysical Research Letters*.

Professional Activities

Conferences

Robert West, Hosmay Lopez, Sang-Ki Lee and Andrew E. Mercer, “Seasonality of interbasin SST contributions to Atlantic tropical cyclone activity”, *PIRATA-24/TAV*, 10-14 May 2021, Virtual, Poster.

Robert West and Philip Sura, “Power law behavior of atmospheric variability”, *26th Conference on Climate Variability and Change (AMS 2014)*, 2-6 February 2014, Atlanta, GA, USA, Talk.

Robert West and Philip Sura, “Power law behavior of atmospheric variability”, *IMA Annual Program Year Workshop: Stochastic Modeling of the Oceans and Atmosphere*, 11-15 March 2013, University of Minnesota, Twin Cities Campus, Minneapolis, MN, USA, Poster.

Robert West and Philip Sura, “Power law behavior of atmospheric variability”, *11th Annual AMS Student Conference and Career Fair (AMS 2012)*, 22-26 January 2012, New Orleans, LA, USA, Poster.

Workshops

Participant, *AOML-NOAA/NWS/OPC Virtual Workshop*, 16 September 2021.

Participant, *NCCOS-AOML Joint Virtual Symposium*, 23-25 February 2021.

Participant, *AOML-NESDIS/STAR Virtual Workshop*, 2 February 2021.

Participant, *AOML-GFDL Science Connections Workshop*, 12-13 August 2020.

Seminars and Other Talks

“Non-Gaussian climate variability within a stochastic framework”, *FSU Meteorology Seminar Series*, 21 November 2019, Florida State University, Tallahassee, FL, USA.

“Power law behavior of atmospheric variability”, *2013 EOAS Graduate Symposium*, 15 November 2013, Florida State University, Tallahassee, FL, USA.

Teaching Experience

Florida State University, Dept. of Earth, Ocean and Atmospheric Science, Tallahassee, FL, USA

Instructor, <i>Introduction to the Atmosphere</i>	Spring 2015
Instructor, <i>Introduction to the Atmosphere</i>	Fall 2014
Instructor, <i>Introductory Meteorology Laboratory</i>	Summer 2014
Teaching Assistant, <i>Meteorological Computations</i> (with Philip Sura)	Spring 2014
Teaching Assistant, <i>Atmospheric Physics II</i> (with Mark Bourassa)	Spring 2014
Teaching Assistant, <i>Atmospheric Physics I</i> (with Robert Ellingson)	Fall 2013
Teaching Assistant, <i>Atmospheric Dynamics II</i> (with Ming Cai)	Spring 2013
Teaching Assistant, <i>Meteorological Computations</i> (with Philip Sura)	Spring 2010
Teaching Assistant, <i>Physical Climatology</i> (with Ming Cai)	Fall 2009

Distinction

Member of Pi Mu Epsilon (Mathematics Honor Society), inducted 2009.

Member of Chi Epsilon Pi (Meteorology Honor Society), inducted 2008.

Service

Organizer, PhOD Science Discussion Seminar Series, Aug. 2021-present.

Co-chair, "Extreme weather and climate events" session, *PIRATA-24/TAV*, 10-14 May 2021, Virtual.

FSU Meteorology Graduate Student Representative, 2011-2012.

Vice-President of Chi Epsilon Pi (Meteorology Honor Society), FSU Chapter, 2011-2012.

Professional Memberships

Member, American Meteorological Society (AMS)

Member, American Geophysical Union (AGU)

Industry Experience

Risk Management Solutions (RMS), Tallahassee, FL, USA

Oct. 2017 - Jan. 2019: Modeler

Developed tropical cyclone wind hazard products and data visualizations for RMS clients.

Apr. 2017 - Oct. 2017: Senior Analyst

Developed a Python library to automate the retrieval, standardization and storage of tropical cyclone data and model output for tropical cyclone objective analyses.

Oct. 2015 - Apr. 2017: Meteorological Analyst

Performed real-time objective analyses of tropical cyclone wind fields.

HWind Scientific, Tallahassee, FL, USA

Mar. 2015 - Oct. 2015: Atmospheric Scientist

Developed software to retrieve, format and assimilate model data into analysis products.

Software Development

SGSDist.jl

<https://github.com/brwst/SGSDist.jl>

A Julia implementation of the stochastically generated skewed (SGS) distribution which includes parameter estimation and Markov process generation.