

Jason C. Furtado
Website: <http://ifurtado.org>

ADDRESS AND CONTACT INFO

University of Oklahoma
School of Meteorology
120 David L. Boren Blvd. Suite #5900
Norman, OK 73072

Office: +1-405-325-1391
Fax: +1-405-325-7689
E-mail: jfurtado@ou.edu

EDUCATION

- 2010 **GEORGIA INSTITUTE OF TECHNOLOGY**
Ph.D. – Earth and Atmospheric Sciences
Graduate Certificate in Public (Environmental) Policy
Dissertation: On the Uncertainties and Dynamics of Pacific Interannual and Decadal Climate Variability and Climate Change
Advisor: Dr. Emanuele Di Lorenzo
- 2005 **COLORADO STATE UNIVERSITY**
M.S. – Atmospheric Science
Thesis: On the Balanced Response of the Troposphere to Variability in the Extratropical Stratosphere
Advisor: Dr. David W. J. Thompson
- 2002 **LYNDON STATE COLLEGE**
B.S. – Meteorology / B.S. – Mathematics

PROFESSIONAL APPOINTMENTS

- 2015 – **UNIVERSITY OF OKLAHOMA**
Assistant Professor, School of Meteorology (2015 –)
Affiliate Faculty, South Central Climate Science Center (2016 –)
Affiliate Faculty, Department of Psychology (2017 –)
- 2014 – 2015 **BOSTON UNIVERSITY**
Lecturer, Department of Earth and Environment
- 2011 – 2015 **ATMOSPHERIC AND ENVIRONMENTAL RESEARCH**
Staff Scientist I, Climate Analysis Branch
- 2008 – 2010 **GEORGIA INSTITUTE OF TECHNOLOGY ATHLETICS**
Forecaster, NCAA Football and Baseball Games
- 2005 – 2010 **GEORGIA INSTITUTE OF TECHNOLOGY**
Graduate Research Assistant, School of Earth & Atmospheric Sciences
- 2002 – 2005 **COLORADO STATE UNIVERSITY**
Graduate Research Assistant, Department of Atmospheric Science

REFEREED PUBLICATIONS

* Student Author

IN PREPARATION

- Domeisen, D. I., A. H. Butler, A. J. Charlton-Perez, B. Ayarzagüena, M. P. Baldwin, E. Dunn-Sigouin, **J. C. Furtado**, C. I. Garfinkel, P. Hitchcock, A. Y. Karpechko, J. Knight, A. Lang, E.-P. Lim, Y. Lim, A. Marshall, C. Schwartz, I. R. Simpson, S.-W. Son, K. Song, and M. Taguchi, 2018: The role of stratosphere – troposphere coupling in sub-seasonal to seasonal prediction using the S2S database. *Q. J. Roy. Meteor. Soc.*, in prep.
- **Furtado, J. C.**, J. Cohen, E. Becker, and D. Collins, 2018: Evaluation of the forecast skill of sudden stratospheric warming events in the NMME Phase-2 Models. *Geophys. Res. Lett.*, in prep.
- Green, M. R.*, **J. C. Furtado**, E. A. Barnes, L. M. Ciasto, and M. L’Heureux, 2018: Modulation of MJO boreal winter teleconnections by Northern Hemisphere extratropical stratospheric variability. *J. Climate*, in prep.
- Henderson, G. Y. Peings, **J. C. Furtado**, and P. Kushner, 2018: Coupling between terrestrial snow cover and the mid-latitude atmosphere: A review. *Nature Climate Change*, in prep.

UNDER REVIEW

- You, Y.*, and **J. C. Furtado**, 2018: The South Pacific Meridional Mode and its role in tropical Pacific climate variability. *J. Climate*, accepted pending revisions.

PUBLISHED

2018

22. Flanagan, P. X.*, J. B. Basara, **J. C. Furtado**, and X. Xiao, 2018: Primary atmospheric drivers of pluvial years in the United States Great Plains. *J. Hydrometeor.*, in press, <https://doi.org/10.1175/JHM-D-17-0148.1>.

2017

21. You, Y.*, and **J. C. Furtado**, 2017: The role of South Pacific atmospheric variability in the development of different types of ENSO. *Geophys. Res. Lett.*, **44**, 7438–7446, doi: [10.1002/2017GL073475](https://doi.org/10.1002/2017GL073475)
20. Anderson. B. T., **J. C. Furtado**, D. J. S. Gianotti, and E. Di Lorenzo, 2017: Tracking the Pacific Decadal Precession. *J. Geophys. Res.*, **122**, 3214–3227, doi:10.1002/2016JD02596.

2016

19. Anderson. B. T., D. J. S. Gianotti, G. Salvucci, and **J. C. Furtado**, 2016: Dominant timescales of potentially predictable precipitation variations across the continental United States. *J. Climate*, **29**, 8881–8897, doi: 10.1175/JCLI-D-15-0635.1.
18. **Furtado, J. C.**, J. Cohen, and E. Tziperman, 2016: The combined influences of autumnal snow and sea ice on Northern Hemisphere winters. *Geophys. Res. Lett.*, **43**, doi: 10.1002/2016GL068108.
17. Anderson. B. T., D. J. S. Gianotti, **J. C. Furtado**, and E. Di Lorenzo, 2016: A decadal precession of atmospheric pressures over the North Pacific. *Geophys. Res. Lett.*, **43**, 3921–3927, doi: [10.1002/2016GL068206](https://doi.org/10.1002/2016GL068206).

2015

16. Di Lorenzo, E., G. Liguori, N. Schneider, **J. C. Furtado**, B. T. Anderson, and M. A. Alexander, 2015: ENSO and meridional modes: A null hypothesis for Pacific climate variability, *Geophys. Res. Lett.*, **42**, 9440 – 9448.
15. **Furtado, J. C.**, J. L. Cohen, A. H. Butler, E. E. Riddle, and A. Kumar, 2015: Eurasian snow cover variability and links to winter climate in the CMIP5 models. *Climate Dyn.*, **45**, 2591 – 2605.

2014

14. Cohen, J., J. A. Screen, **J. C. Furtado**, M. Barlow, D. Whittleston, D. Coumou, J. Francis, K. Dethloff, D. Entekhabi, J. Overland, and J. E. Jones, 2014: The relationship between recent Arctic Amplification and extreme mid-latitude weather. *Nature Geoscience*, **7**, 627 – 637.
13. Cohen, J., **J. C. Furtado**, J. Jones, M. Barlow, D. Whittleston, and D. Entekhabi, 2014: Linking Siberian snow cover to precursors of stratospheric variability. *J. Climate*, **27**, 5422 – 5432.

2013

12. Di Lorenzo, E., V. Combes, J. E. Keister, T. P. Strub, A. C. Thomas, P. J. S. Franks, M. D. Ohman, **J. C. Furtado**, A. Bracco, S. J. Bograd, W. T. Peterson, F. B. Schwing, S. Chiba, B. Taguchi, S. Hormazabal, and C. Parada, 2013: Synthesis of Pacific Ocean climate & ecosystems dynamics. *Oceanography*, **26**, 68 – 81, <http://dx.doi.org/10.5670/oceanog.2013.76>.
11. Cohen, J. L., J. Jones, **J. C. Furtado**, and E. Tziperman, 2013: Warm Arctic, cold continents: A common pattern related to Arctic sea ice melt, snow advance, and extreme winter weather. *Oceanography*, **26**, <http://dx.doi.org/10.5670/oceanog.2013.70>.
10. Anderson, B. T., **J. C. Furtado**, K. M. Cobb and E. Di Lorenzo, 2013: Extratropical forcing of El Niño/Southern Oscillation asymmetry. *Geophys. Res. Lett.*, **40**, 4916 – 4921.
9. Riddle, E. E., A. H. Butler, **J. C. Furtado**, J. L. Cohen, and A. Kumar, 2013: CFSv2 ensemble prediction of the wintertime Arctic Oscillation. *Climate Dyn.*, **41**, 1099 – 1116.

2012

8. **Furtado, J. C.**, E. Di Lorenzo, B. T. Anderson, and N. Schneider, 2012: Linkages between the North Pacific Oscillation and central tropical Pacific SSTs at low frequencies. *Climate Dyn.*, **39**, 2833 – 2846.
7. Cohen, J., **J. C. Furtado**, M. A. Barlow, V. A. Alexeev, and J. C. Cherry, 2012: Asymmetric seasonal temperature trends. *Geophys. Res. Lett.*, **39**, L04705, doi: 10.1029/2011GL050582.
6. Cohen, J., **J. C. Furtado**, M. A. Barlow, V. A. Alexeev, and J. C. Cherry, 2012: Arctic warming, increasing snow cover, and widespread boreal winter cooling. *Env. Res. Lett.*, **7**, 014007, doi: 10.1088/1748-9326/7/1/014007.

2011

5. **Furtado, J. C.**, and E. Di Lorenzo, 2011: Pacific climate variability in IPCC coupled climate models. In PICES Scientific Report No. 40: Report of Working Group 20 on Evaluations of Climate Change Projections, 165 pp.
4. **Furtado, J. C.**, E. Di Lorenzo, N. Schneider, and N. Bond 2011: North Pacific decadal variability and climate change in the IPCC AR4 models. *J. Climate*, **24**, 3049 – 3067.

2010

3. Di Lorenzo, E., K. M. Cobb, **J. C. Furtado**, N. Schneider, B. Anderson, A. Bracco, M. A. Alexander, and D. Vimont, 2010: Central Pacific El Niño and decadal climate change in the North Pacific. *Nature Geoscience*, **3**, 762 – 765.

2009

2. **Furtado, J. C.**, E. Di Lorenzo, K. M. Cobb, and A. Bracco, 2009: Paleoclimate reconstructions of tropical sea surface temperatures from precipitation proxies: Methods, uncertainties and nonstationarity. *J. Climate*, **22**, 1104 – 1123.

2006

1. Thompson, D. W. J., **J. C. Furtado**, and T. G. Shepherd, 2006: On the tropospheric response to anomalous stratospheric wave drag and radiative heating. *J. Atmos. Sci.*, **63**, 2616 – 2629.

SELECT CONFERENCE PRESENTATIONS

First author is presenter. * Student Author

2018

39. **Furtado, J. C.**, and Y. You*, 2018: "The South Pacific Oscillation and Its Potential Role in ENSO Development." 2018 AGU / ASLO / TOS Ocean Sciences Meeting, Portland, OR, USA. Oral Presentation.
38. You, Y.*, and **J. C. Furtado**, 2018: "The South Pacific Meridional Mode and Its Role in the Tropical Pacific Interannual-to-Decadal Variability: Observations and Models." 2018 AGU / ASLO / TOS Ocean Sciences Meeting, Portland, OR, USA. Oral Presentation.
37. Green, M. R.*, **J. C. Furtado**, E. A. Barnes, M. L'Heureux, L. M. Ciasto, and K. Harnos, 2018: "Joint Influences of the MJO and the Stratospheric Polar Vortex on the Northern Hemisphere Extratropical Circulation." American Meteorological Society 98th Annual Meeting. Austin, TX, USA. Oral Presentation.
36. Flanagan, P. X.*, J. Basara, **J. C. Furtado**, and X. Xiao, 2018: "Primary Atmospheric Drivers of Pluvial Years in the United States Great Plains." American Meteorological Society 98th Annual Meeting. Austin, TX, USA. Oral Presentation.
35. Narotsky, C.* and **J. C. Furtado**, 2018: "Quantifying Stratospheric Polar Vortex Trends during the 20th and 21st Centuries." American Meteorological Society 98th Annual Meeting. Austin, TX, USA. Poster Presentation.
34. Balderas, N.*, G. Jennrich*, N. Myers*, and **J. C. Furtado**, 2018: "Recent and Future Trends of Cold Season Extratropical Cyclones over the Eastern United States." American Meteorological Society 98th Annual Meeting, Austin, TX, USA. Poster Presentation.
33. **Furtado, J. C.**, and Y. You*, 2018: "The Role of the South Pacific Oscillation in ENSO Predictions." 98th American Meteorological Society Annual Meeting, Austin, Poster Presentation.
32. You, Y.*, and **J. C. Furtado**, 2018: "The South Pacific Meridional Mode and Its Role in the Tropical Pacific Interannual-to-Decadal Variability: Observations and Models." American Meteorological Society 98th Annual Meeting, Austin, TX, USA. Oral Presentation.

2017

31. Rosendahl, D. H., P. Cwik*, E. R. Martin, J. Basara, H. Brooks, **J. C. Furtado**, C. Homeyer, H. Lazrus, R. McPherson, E. Mullens, M. Richman, and A. Robinson-Cook, 2017: "Developing a Framework for Seamless Prediction of Sub-Seasonal to Seasonal Extreme Precipitation Events in the United States." American Geophysical Union 2017 Fall Meeting. New Orleans, LA, USA. Poster Presentation.
30. Lampert, D., **J. C. Furtado**, K. Karleskint*, M. Moursy*, and C. Dyson*, 2017: "Analysis of future flood risks associated with climate change on Oklahoma City infrastructure." AWRA Annual Water Resources Conference, Portland, OR, USA. Oral Presentation.
29. Lampert, D., **J. C. Furtado**, K. Karleskint*, M. Moursy*, and C. Dyson*, 2017: "Analysis of future flood risks associated with climate change on Oklahoma City infrastructure." Oklahoma Governor's Water Conference, Oklahoma City, OK, USA. Oral Presentation.
28. Green, M. R.*, **J. C. Furtado**, E. A. Barnes, M. L'Heureux, L. M. Ciasto, and K. Harnos, 2017: "Evaluating the Joint Influence of the MJO and the Stratospheric Polar Vortex on Northern Hemisphere Winter Weather Patterns." 42nd Annual NOAA Climate Diagnostics and Prediction Workshop, Norman, OK, USA. Oral Presentation.
27. Flanagan, P. X.*, J. Basara, **J. C. Furtado**, and X. Xiao, 2017: "Primary Atmospheric Drivers of United States Great Plains Pluvial Years." 42nd Annual NOAA Climate Diagnostics and Prediction Workshop, Norman, OK, USA. Oral Presentation.
26. **Furtado, J. C.**, J. Cohen, E. Becker, and D. Collins, 2017: "Predictability of Sudden Stratospheric Warmings in Operational Subseasonal-to-Seasonal Forecasting Models." 42nd Annual NOAA Climate Diagnostics and Prediction Workshop, Norman, OK, USA. Oral Presentation.
25. Rosendahl, D. H., P. Cwik*, E. R. Martin, J. Basara, H. Brooks, **J. C. Furtado**, C. Homeyer, H. Lazrus, R. McPherson, E. Mullens, M. Richman, and A. Robinson-Cook, 2017: "Developing a Framework for Seamless Prediction of Sub-Seasonal to Seasonal Extreme Precipitation Events in the United States." 42nd Annual NOAA Climate Diagnostics and Prediction Workshop, Norman, OK, USA. Poster Presentation.
24. **Furtado, J. C.**, M. R. Green*, E. A. Barnes, M. L'Heureux, L. M. Ciasto, and K. Harnos, 2017: "Modulation of Wintertime MJO Teleconnections by the Northern Hemisphere Stratospheric Polar Vortex," 18th Cyclone Workshop. Saint-Adele, Quebec, Canada. Oral Presentation.
23. **Furtado, J. C.**, J. Cohen, E. Becker, and D. Collins, 2017: "Predictability of the Tropospheric NAM and SSWs in the NMME Phase-2 Models." NOAA OAR/CPO NMME Webinar Series. Oral Presentation.
22. **Furtado, J. C.**, J. Cohen, E. Becker, and D. Collins, 2017: "Predictability of the Tropospheric NAM and SSWs in the NMME Phase-2 Models." American Meteorological Society 97th Annual Meeting, Seattle, WA, USA. Oral Presentation.
21. Newman, B.*, B. Elmer*, M. Angst*, and **J. C. Furtado**, 2017: "The Association Between El Niño Intensity and North American Winter Weather." American Meteorological Society 97th Annual Meeting, Seattle, WA, USA. Poster Presentation.
20. Barlow, M., J. Cohen, **J. C. Furtado**, and L. Agel*, 2017: "Three-dimensional structure and daily evolution of vertically-coherent troposphere-stratosphere wave activity pulses." American Meteorological Society 97th Annual Meeting, Seattle, WA, USA. Oral Presentation.

2016

19. Anderson, B. T., **J. C. Furtado**, E. Di Lorenzo, and D. J. S. Gianotti*, 2016: "The Pacific Decadal Precession and climate disturbances in the Northwest." 7th Annual Northwest Climate Conference, Skamania, WA, USA. Poster Presentation.
18. **Furtado, J. C.**, E. Di Lorenzo, B. T. Anderson, D. J. S. Gianotti*, N. Schneider, and M. A. Alexander, 2016: "Tropical - North Pacific Climate Interactions on Multiple Timescales." SCENARIO Workshop, Reading, UK. Oral Presentation.
17. Barlow, M., J. Cohen, and **J. C. Furtado**, 2016: "Three-dimensional structure and daily evolution of vertically-coherent troposphere-stratosphere wave activity pulses." EGU General Assembly, Vienna, Austria. Oral Presentation.

2015

16. **Furtado, J. C.**, B. T. Anderson, D. J. S. Gianotti*, and E. Di Lorenzo, 2015: "The Pacific Decadal Precession and Its Links to US Climate." South Central Climate Science Center 4th Annual Research Workshop, Fort Worth, TX, USA. Poster Presentation.

2014

15. Cohen., J., **J. C. Furtado**, M. Barlow, D. Whittleston*, and D. Entekhabi, 2014: Linking Siberian Snow Cover to Precursors of Stratospheric Variability and Intraseasonal Predictability." American Geophysical Union 2014 Fall Meeting. San Francisco, CA, USA. Poster Presentation.
14. Cohen, J., J. A. Screen, **J. C. Furtado**, M. Barlow, D. Whittleston*, D. Coumou, J. Francis, K. Dethloff, D. Entekhabi, and J. Overland, 2014: "The Relationship Between Recent Arctic Amplification and Extreme Mid-Latitude Weather." American Geophysical Union 2014 Fall Meeting. San Francisco, CA, USA. Oral Presentation.

2013

13. Cohen., J., **J. C. Furtado**, J. E. Jones, M. Barlow, D. Whittleston*, and D. Entekhabi, 2013: Linking Siberian Snow Cover to Precursors of Stratospheric Variability." American Geophysical Union 2013 Fall Meeting. San Francisco, CA, USA. Poster Presentation.

2012

12. Cohen., J., **J. C. Furtado**, M. Barlow, J. E. Cherry, and V. A. Alexeev, 2012: "Has Anthropogenic Global Warming in the Arctic Contributed to Colder Winter Weather in the Northern Hemisphere Mid-Latitudes?" American Geophysical Union 2012 Fall Meeting. San Francisco, CA, USA. Oral Presentation.
11. **Furtado, J. C.**, J. Cohen, A. Butler, E. Riddle, and A. Kumar, 2012: "Eurasian Snow Cover, Stratosphere-Troposphere Coupling, and NH Wintertime Climate Variability in CMIP5." 37th Annual NOAA Climate Diagnostics and Prediction Workshop. Fort Collins, CO, USA. Oral Presentation.
10. **Furtado, J. C.**, and E. Di Lorenzo, 2012: "The Meridional Mode and Tropical Pacific Decadal Variability in the CMIP5 Models." American Geophysical Union 2012 Fall Meeting. San Francisco, CA, USA. Poster Presentation.

2011

9. Cohen, J., **J. C. Furtado**, M. Barlow, V. Alexeev, and J. Cherry, 2011: "Are the Two Recent Harsh Northern Hemisphere Winters Manifestation of Anthropogenic Global Warming in the Arctic?"

WCRP Open Science Conference: Climate Research in Service to Society. Denver, CO, USA. Poster Presentation.

8. **Furtado, J. C.**, J. Cohen, A. Butler, E. Riddle, and A. Kumar, 2011: "Eurasian Snow Cover Variability and Wintertime Stratosphere / Troposphere Coupling in the CMIP5 Models." WCRP Open Science Conference: Climate Research in Service to Society. Denver, CO, USA. Poster Presentation.
7. **Furtado, J. C.**, E. Di Lorenzo, B. T. Anderson, and N. Schneider, 2011: "Dynamics of the North Pacific Oscillation and Connections to Tropical Pacific Variability." 36th Annual Northeastern Storm Conference, Taunton, MA, USA. Oral Presentation.

2010

6. **Furtado, J. C.**, E. Di Lorenzo, B. T. Anderson, and N. Schneider, 2010: "Dynamics of the North Pacific Oscillation and Connections to Tropical Pacific Variability." American Geophysical Union 2010 Fall Meeting. San Francisco, CA, USA. Poster Presentation.
5. **Furtado, J. C.**, and E. Di Lorenzo, 2010: "North Pacific Decadal Variability and Climate Change in the IPCC AR4 Models." American Meteorological Society 90th Annual Meeting. Atlanta, GA, USA. Oral Presentation.

2008

4. **Furtado, J. C.**, and E. Di Lorenzo, 2008: "Decadal Climate Variability of the North Pacific: Past and Future." Eastern Pacific Ocean Conference 2008. Fallen Leaf Lake, CA, USA. Oral Presentation.

2007

3. **Furtado, J. C.**, E. Di Lorenzo, and K. M. Cobb, 2007: "Reconstructing Tropical Sea Surface Temperatures Using Precipitation Proxy Records: Methods and Uncertainties." IUGG General Assembly 2007. Perugia, Italy. Oral Presentation.
2. **Furtado, J. C.**, E. Di Lorenzo, and K. M. Cobb, 2007: "Reconstructing Tropical Sea Surface Temperatures Using Precipitation Proxy Records: Methods and Uncertainties." American Geophysical Union 2007 Joint Assembly Meeting. Acapulco, Guerrero, Mexico. Poster Presentation.

2005

1. **Furtado, J. C.**, D. W. J. Thompson, and T. G. Shepherd, 2005: "On the Balanced Response of the Troposphere to the Stratosphere." 30th Annual Northeastern Storm Conference. Burlington, VT, USA. Oral Presentation.

INVITED TALKS

2017

5. **[14 Nov 2017]** "The Role of the South Pacific in Tropical Pacific Climate Variability." University of Oklahoma, School of Meteorology Colloquium Series, Norman, OK, USA.

2016

4. **[11 Nov 2016]** "Tropical - North Pacific Climate Interactions on Multiple Timescales." University of Virginia, Department of Environmental Sciences, Charlottesville, VA, USA.

3. **[10 Nov 2016]** "From Siberia With Love: How Autumnal Arctic Climate Variability May Influence NH Winter Weather," University of Virginia, Department of Environmental Sciences, Charlottesville, VA, USA.

2012

2. **[7 Feb 2012]** "Central Pacific Warming and the North Pacific Oscillation: A New Look at Pacific Decadal Climate Variability." NOAA Climate Prediction Centers, Camp Springs, MD, USA.

2005

1. **[14 March 2005]** "On the Balanced Response of the Troposphere to the Stratosphere." NASA GISS, New York, VT, USA.

OTHER WORKSHOPS AND CONFERENCES

2018

- American Meteorological Society Early Career Leadership Academy. Washington, DC, USA. **Selected for Participation.**

2006

- National Center for Atmospheric Science Advanced Study Program. "The Art of Climate Modeling", Boulder, CO, USA. **Selected for Participation.**

FUNDED RESEARCH GRANTS

CURRENT

1. **PI** - Investigating the Underlying Mechanisms and Predictability of the MJO - NAM Linkage in the NMME Phase-2 Models. NOAA. 07/01/16 – 06/30/19, \$185,543.
2. **Co-PI** - PREEVENTS Track 2: Collaborative Research: Developing a Framework for Seamless Prediction of Sub-Seasonal to Seasonal Extreme Precipitation Events in the United States. NSF. 07/01/17 – 06/30/22. \$1,842,562.
3. **Co-PI** - Collaborative Research: Structure and Influence of Coherent Vertical Pulses of Wave Activity Flux in Observations and Models, from Daily to Seasonal Timescales. NSF. 08/15/17 – 8/14/20. \$231,521.

PAST

1. **PI** - Analysis of Oklahoma Transportation Infrastructure Investments for Climate Change Adaptation. Southern Plains Transportation Center. 07/01/16 – 06/30/17 \$12,600.
2. **PI** - Evaluating Sudden Stratospheric Warmings and NAM Predictability in the NMME Phase-2 System. NOAA. 08/01/15 – 07/31/16 \$59,118
3. **Co-I** - Implementation and Validation of Solar Variability in Radiation Code RRTMG_SW. NASA. 08/01/13 – 07/31/16, \$215,926.00.
4. **Co-I** - Identifying Mechanisms of AMOC Variability in ECCO State Estimates and CMIP5 Models. NOAA. 08/01/13 – 07/31/16, \$310,659.00.

AWARDS AND HONORS

2018	Top Faculty/Staff Forecaster , Flagstaff, AZ, WxChallenge
2017	Dean's Excellence in Teaching Award , College of Atmospheric and Geographic Sciences, University of Oklahoma Top Faculty/Staff Runner-Up Forecaster , Jackson, MS, WxChallenge
2015	AGU Editor's Citation for Excellence for Refereeing , <i>Geophysical Research Letters</i>
2014	Employee of the Year , Atmospheric and Environmental Research Team of the Year , Verisk Climate
2010	Georgia Tech Earth & Atmospheric Sciences Chair Service Award
2008	Top Graduate Student Forecaster , Tucson, AZ, WxChallenge
2006	Top National Forecaster , Salt Lake City, UT, NCWFC Top Graduate Student Forecaster , Pensacola, FL, NCWFC
2005 – 2009	Georgia Tech Presidential Fellowship
2004	Top Graduate Student Forecaster , Hoquiam, WA, NCWFC
2002 – 2003	AMS/NASA Earth Science Enterprise Fellowship Colorado State University 3F Fellowship
2001	AMS Howard T. Orville Scholarship in Meteorology
1998 – 2002	Lyndon State College Presidential Scholar Martin Luther King Jr. Foundation Scholar Portuguese-American Scholar

TEACHING EXPERIENCE

2015 –	UNIVERSITY OF OKLAHOMA
	Courses Taught
	METR 1014 – Introduction to Weather and Climate
	METR 4322 – Physical Meteorology III: Radiation and Climate
	METR 5433 – Advanced Statistical Meteorology
	Guest Lectures
	METR 3523 – Managing for a Changing Climate (Online Course)
	METR 4491/5491 – Weather Briefing (Spring 2016, Spring 2017)
	METR 4543/5443 – Global Climate Change (Spring 2017)
	METR 4922 – Senior Capstone II (Spring 2016, Spring 2018)

2014 – 2015	BOSTON UNIVERSITY Courses Taught GE310 – Climate and the Environment GE507 – Dynamical Oceanography
April 2012	UNIVERSITY OF MASSACHUSETTS AT LOWELL Guest Lecture ATMO 5080 - The Climate System
2007 – 2010	GEORGIA INSTITUTE OF TECHNOLOGY Graduate Teaching Assistant EAS 1600HP – Introduction to Environmental Science EAS 8803 – Advanced Environmental Data Analysis Guest Lecture EAS 3113 – Energy, Environment, and the Energy Cycle (Fall 2008)
2006 – 2012	PRIVATE ACADEMIC TUTOR
2005 – 2006	GEORGIA INSTITUTE OF TECHNOLOGY ATHLETIC ASSOCIATION Student-Athlete Tutor
2004	COLORADO STATE UNIVERSITY Graduate Teaching Assistant AT605 – General Circulation of the Atmosphere (<i>Graduate</i>)
1999 – 2002	LYNDON STATE COLLEGE Math Lab Tutor

GRADUATE STUDENTS ADVISED

CURRENT

Matthew R. Green (M.S.) (2016 –)
Yujia You (M. S.) (2016 –)
Gregory Jennrich (M.S.) (2017 –)

THESIS AND DISSERTATION COMMITTEE MEMBERSHIP

CURRENT

Ryann Wakefield (M.S.) (2017 —)
Jordan Christian (Ph.D.) (2017 —)
Paul Flanagan (Ph.D.) (2016 —)
Makenzie Krocak (Ph.D.) (2017 —)
Ryan Lagerquist (Ph.D.) (2017 —)
Samuel Lillo (Ph.D.) (2017 —)

PAST

Allison Brannon (M.S.) (2016 — 2017)

Erik Loken (M.S.) (2016 — 2017)
James Danco (M.S.) (2015 — 2016)

SERVICE AND LEADERSHIP

- 2016 – **Member**, NOAA MAPP Subseasonal-to-Seasonal (S2S) Task Force
Faculty Panelist, OU School of Meteorology High School Visitation Days
Member, OU School of Meteorology Undergraduate Curriculum Committee
- 2015 – **Member**, NOAA NMME Task Force
Local Manager, OU WxChallenge Team
Member, weather.ou.edu Development Committee
Graduate Admissions Committee, OU School of Meteorology
- 2014 – **Proposal Reviewer**, National Science Foundation
Member, AMS Weather Analysis and Forecasting Committee
- 2003 – **Peer Reviewer**, *J. Climate*, *J. Geophys. Res.*, *Nature Communications*,
Nature Climate Change, *Deep Sea Res.*, *Climate Dyn.*, *Q. J. Roy. Meteor. Soc.*,
Atmos. Sci. Lett., *Intl. J. Climatology*, *Geophys. Res. Lett.*, *J. Meteor. Soc. Japan*
- October 2017 **Host and Co-Organizer**, 42nd Annual NOAA Climate Diagnostics and Prediction Workshop
- May – July 2017 **Mentor**, OU REU Program
- August 2016 **Participant**, NSF Effectively Communicating Science Workshop – Expert Witness Training Program
- 2015 – 2017 **Chairman**, OU School of Meteorology Reanalysis Data Bank Committee
- 2013 – 2015 **Proposal Review Panelist**, NSF Graduate Research Fellowship Program
- 2013 – 2015 **Debate Judge**, Boston Debate League
- September 2014 **Panelist**, Belmont High School Career Night
- December 2013 **Co-Convener**, Natural and Societal Impacts of Decadal Climate Variability, AGU 2013 Fall Meeting
- November 2013 **Speaker**, First Lego League Competition
- 2011 **Contributing Member**, PICES Working Group 20
- 2009 – 2010 **Secretary**, Metro Atlanta Chapter of the AMS
Member, Prospective Graduate Student, Social, and Undergraduate Committees, Georgia Tech School of Earth & Atmospheric Sciences

2008 – 2010	Speaker , Public outreach program for elementary students about science/weather
2006 – 2010	Local Manager , Georgia Tech NCWFC / WxChallenge Forecast Team
2003 – 2005	Radio DJ , KCSU 90.5 FM
2002 – 2005	Local Manager , Colorado State University NCWFC Forecast Team
2002	Radio DJ , WWLR 91.5 FM
2001 – 2002	President , Lyndon State College Chapter of the AMS/NWA
1999 – 2000	Treasurer , Lyndon State College Chapter of the AMS/NWA

MEDIA INTERVIEWS

2018

- [12 Mar 2018] [“Third nor’easter in 2 weeks to slam New England: What’s going on here?”](#) – Mashable
- [5 Jan 2018] [“‘Bomb cyclone’ is the new ‘polar vortex.’ Here’s where this year’s weather word comes from”](#) – Associated Press
- [4 Jan 2018] [“The ‘Bomb Cyclone’”](#) – Discovery Canada. [Video Link]
- [3 Jan 2018] [“Science Says: Why there’s a big chill in a warmer world”](#) – Associated Press

2017

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- American Meteorological Society
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