

Jason C. Furtado | Ph.D.

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EDUCATION

- 2010** **Georgia Institute of Technology**
Ph.D. - Earth and Atmospheric Sciences • Graduate Certificate in Public Policy
- 2005** **Colorado State University**
M.S. - Atmospheric Science
- 2002** **Lyndon State College**
B.S. - Meteorology & B.S. - Mathematics

EMPLOYMENT

- 2026 –** **Professor of Meteorology, University of Oklahoma**
 - Conduct research on large-scale climate dynamics with applications to subseasonal-to-seasonal (S2S) prediction, extreme weather, and climate change.
 - External research funding – Currently Active: \$1.92M Career Total: \$7.18M
 - Manage and mentor undergraduates, graduate students, & postdoctoral scientists.
 - Design and teach courses on climate dynamics and data analysis.
- 2025 –** **Faculty Fellow for Strategic Partnerships, OU School of Meteorology**
 - Engage with industry and develop research partnerships with the School.
- 2021 – 2026** **Associate Professor of Meteorology, University of Oklahoma**
- 2015 – 2021** **Assistant Professor of Meteorology, University of Oklahoma**
- 2014 – 2015** **Lecturer, Department of Earth & Environment, Boston University**
 - Redesigned & taught two (2) undergraduate courses in climate and oceanography.
- 2011 – 2015** **Staff Scientist, Atmospheric and Environmental Research**
 - Performed interdisciplinary research in climate, climate dynamics, and S2S prediction.
 - Developed and managed weather and climate-related products for clients.
 - Presented research results in peer-reviewed journals and at professional conferences.

ADDITIONAL EXPERIENCE

- 2024 –** **Owner and Founder, JF Weather & Climate Analytics, LLC**
 - Provide consulting and research services to industry clients on S2S forecasting, extreme weather events, and climate variability.

TECHNICAL SKILLS

- **Use and application of statistical techniques** – Linear and logistic regression, principal component analysis, power spectral analysis, k-means clustering, filtering, inverse modeling

- **Programming languages** – Python, MATLAB, NCL, IDL, Shell scripting, FORTRAN, C++, HTML
- **Analyzing “big data”** – Reanalysis, weather & climate model output (e.g., CMIP, S2S models)
- **Other software proficiency:** Microsoft and Mac Office Suites, Git/Github, LaTeX, Adobe

SELECT PUBLICATIONS

- Millin, O. T.* and **J. C. Furtado**, 2026: Subseasonal predictability of cold spells in the central United States. *Quart. J. Roy. Meteor. Soc.*, e70081, <https://doi.org/10.1002/qj.70081>.
- Edris, S.*, A. McGovern, J. B. Basara, J. I. Christian, **J. C. Furtado**, and X. Xiao, 2025: Evaluation of flash drought identification with machine learning techniques. Part 1: Traditional machine learning algorithms. *Artif. Intell. Earth Syst.*, **4**, 240068, <https://doi.org/10.1175/AIES-D-24-0068.1>.
- Millin, O. T., **J. C. Furtado**, and C. Malloy, 2024: The impact of North American winter weather regimes on electricity load in the central United States. *npj Climate Atmos. Sci.*, **7**, 254, <https://doi.org/10.1038/s41612-024-00803-1>.
- **Furtado, J. C.**, J. Cohen, E. Becker, and D. Collins, 2021: Evaluating the relationship between sudden stratospheric warmings and tropospheric weather regimes in the NMME Phase-2 models. *Climate Dyn.*, <https://doi.org/10.1007/s00382-020-05591-x>.
- Dickinson, T. A., M. B. Richman, and **J. C. Furtado**, 2021: Subseasonal to seasonal extreme precipitation events in the contiguous United States: Generation of a database and climatology. *J. Climate*, **34**, 7571–7586, <https://doi.org/10.1175/JCLI-D-20-0580.1>.

SELECT AWARDS AND HONORS

International Research Fellowship, Karlsruhe Institute of Technology (2024) ● **Carlisle and Lurline Mabrey Presidential Professorship**, University of Oklahoma (2022) ● **Research Excellence Award**, University of Oklahoma (2021, 2022) ● **AGU Editor’s Citation for Excellence for Refereeing**, *Geophysical Research Letters* (2015, 2019) ● **Dean’s Excellence in Teaching Award**, College of Atmospheric and Geographic Sciences, University of Oklahoma (2017) ● **Employee of the Year**, Atmospheric and Environmental Research (2014)

SELECT SERVICE AND LEADERSHIP

Member, Subseasonal Applications for Agriculture and Environment (SAGE) Energy Task Force (2025 –) ● **Member**, Electric Power Research Institute Climate READi Affinity Group (2023 –) ● **Editor**, *Artificial Intelligence in Earth Science* (2023 –) ● **Associate Editor**, *Journal of Climate* (2023 –) ● **Member and Co-Chair**, US Climate Variability and Predictability (CLIVAR) Predictability, Predictions, and Applications Interface (PPAI) Panel (2022 –) ● **Participant**, Letters to a Pre-Scientist Program (2020 –) ● **Participant**, Skype-A-Scientist Program (2017 –) ● **Media Interview Expert**, News Outlets such as *Associated Press*, *CNN*, *Washington Post*, *Discovery Canada* (2015 –) ● **Local Manager**, OU WxChallenge Team (2015 – 2023) ● **Senator**, OU Faculty Senate (2022 – 2023)

PROFESSIONAL MEMBERSHIPS

American Geophysical Union ● American Meteorological Society ● National Weather Association ● Sigma Xi Scientific Research Honor Society