



# Paul Xavier Flanagan

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## EDUCATION

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- A.A., Summa Cum Laude  
Palm Beach State College, Lake Worth, FL 33461
- B.S., Summa Cum Laude, Meteorology  
Florida State University, Tallahassee, FL 32306
- M.S., Meteorology  
University of Oklahoma, Norman, OK 73019  
Advisor: Dr. Jeffrey B. Basara
- Ph.D., Meteorology  
University of Oklahoma, Norman, OK 73019  
Advisor: Dr. Jeffrey B. Basara

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## CURRENT APPOINTMENT

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- Post-Doctoral Research Associate (2019-Present), High Plains Regional Climate Center, School of Natural Resources, University of Nebraska-Lincoln

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## PREVIOUS APPOINTMENTS

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- Graduate Research Assistant (2014-2018), School of Meteorology, University of Oklahoma
- Graduate Teaching Assistant (2013-2014), School of Meteorology, University of Oklahoma

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## CURRENT RESEARCH

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- Modeling impacts of land use land cover change on weather and climate
- Precipitation processes and variability on climate scales over the U.S. Great Plains

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## EXPERIENCE

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- Field observations at Florida State University – Collected daily temperature, wind, precipitation, and cloud observations for 4 months while working with Dr. Paul Ruscher.
- University of Oklahoma/School of Meteorology Graduate Teaching Assistant -Assisted Dr. Jeffrey B. Basara teaching METR 4424 – Synoptic Meteorology Laboratory
- University of Oklahoma/School Of Meteorology Graduate Research Assistant – researched the connections between soil moisture, the dryline, convective initiation and drought over Oklahoma as part of my M.S. work.
- University of Oklahoma/School Of Meteorology Graduate Research Assistant – quantified precipitation processes and variability over the United States Great Plains, notably in terms of enhanced precipitation variability or pluvial years.
- Attended the Eddy Covariance Training Course, Li-COR Biosciences Lincoln, Nebraska 2015
- Session chair of “Variability of Regional Hydroclimate” in the 32 Conference on Hydrology at the 98<sup>th</sup> American Meteorological Society Annual Meeting, Austin, TX.
- Attended NCAR Climate and Weather Extremes Tutorial 2018 (Aug 1<sup>st</sup>-3<sup>rd</sup>) in Boulder, CO.

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## AWARDS AND ACHIEVEMENTS

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- Member of Phi Theta Kappa (10+ years)
- Member of Chi Epsilon Pi (6 years)
- Attended Undergraduate Leadership Workshop at NCAR, Boulder, CO (Summer 2012)
- Recipient of the David James Shellberg Memorial Scholarship (2016)
- Faculty Recognition for Outstanding Performance as a Graduate Student (OU 2017-2018 academic year)

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## PUBLICATIONS

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- Flanagan, P. X., J. B. Basara, B. G. Illston, J. A. Otkin, 2017: The effect of the dryline and convective initiation on drought evolution over Oklahoma during the 2011 drought. *Advances in Meteorology*. **2017**, 1–16, doi:10.1155/2017/8430743.
- Flanagan, P. X., J. B. Basara, X. Xiao, 2017: Long-term analysis of the asynchronicity between temperature and precipitation maxima in the United States Great Plains. *Int. J. Climatol.* **37**, 3919–3933, doi: <https://doi.org/10.1002/joc.4966>.
- Flanagan, P. X., J. B. Basara, J. C. Furtado, X. Xiao, 2018: Primary atmospheric drivers of pluvial years in the United States Great Plains. *J. Hydrometeor.*, **19**, 643–658, doi: <https://doi.org/10.1175/JHM-D-17-0148.1>
- Flanagan, P.X., J. B. Basara, J. C. Furtado, E. R. Martin, X. Xiao, 2018: Role of Pacific sea surface temperatures in United States Great Plains pluvial years. *In review*.

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## CONFERENCE PRESENTATIONS

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- 95<sup>th</sup> American Meteorological Society Annual Meeting, Phoenix, AZ.  
Presented work entitled “Definition of Dry Thunderstorms for Use in Verifying SPC Fire Weather Products” Extended abstract available at  
<https://ams.confex.com/ams/95Annual/webprogram/Paper270996.html>
- 95<sup>th</sup> American Meteorological Society Annual Meeting, Phoenix, AZ.  
Presented work entitled “Soil Moisture and Atmospheric Evolution Across Oklahoma During the 2011 Drought”
- 96<sup>th</sup> American Meteorological Society Annual Meeting, New Orleans, LA.  
Presented work entitled “The Impact of Soil Moisture on the Oklahoma Dryline During the 2011 Drought”
- SCENARIO NERC DTP Conference with the University of Oklahoma, University of Reading, England.  
  
Presented work entitled “Long term analysis of the asynchronicity between temperature and precipitation maxima in the Great Plains”
- 97<sup>th</sup> American Meteorological Society Annual Meeting, Seattle, WA.  
Presented work entitled “Long-term Analysis of the Asynchronicity Between Temperature and Precipitation Maxima in the Great Plains”
- 5<sup>th</sup> International Symposium on Earth-Science Challenges, Uji Campus of Kyoto University, Japan  
Presented work entitled “Primary Atmospheric Drivers of Pluvial Years in the United States Great Plains”
- 98<sup>th</sup> American Meteorological Society Annual Meeting, Austin, TX.  
Presented work entitled “Primary Atmospheric Drivers of Pluvial Years in the United States Great Plains”
- Presented invited seminar at the USDA-ARS Climate Hub at the Grazinglands Research Laboratory at El Reno, Oklahoma  
Presented work entitled “Atmospheric Drivers of Southern Great Plains Pluvial Years”