

## EDUCATION

<b>Ph.D. Hydrometeorology</b> , University of Arizona, Tucson, AZ	2016
<b>M.S. Hydrometeorology</b> , University of Arizona, Tucson, AZ	2012
<b>B.S. Physics</b> , University of Texas at Dallas, Richardson, TX	2010

## PROFESSIONAL EXPERIENCE

<b>Postdoctoral Fellow at Desert Research Institute, Las Vegas, NV</b>	2018-present
<ul style="list-style-type: none"><li>• Developed a method to forecast future changes in playa lake flood frequency using climate model projections and historical inundation data.</li><li>• Analyzed meteorological conditions that affect the transport of radionuclides by air and ephemeral streams at the Nevada National Security Sites.</li><li>• Synthesized available data and publications related to wildfire impacts on hydrology to create tools for land managers and wildfire response teams</li><li>• Reviewed technical reports and grant proposals</li></ul>	
<b>Postdoctoral Research Associate at University of Arizona, Tucson, AZ</b>	2016-2018
<ul style="list-style-type: none"><li>• Evaluated NASA's SMAP soil moisture relative to five other satellite products over various land cover types and quantification of uncertainty due to representativeness of in situ data and measurement error</li><li>• Assessed the relationships between antecedent soil moisture on afternoon convective precipitation using satellite-based precipitation and soil moisture</li></ul>	
<b>Research Assistant at University of Arizona, Tucson AZ</b>	
<ul style="list-style-type: none"><li>• Identified deficiencies in the Climate Research Unit's monthly number of raining days 2016 product and developed an improved 110-year 0.5 degree global raining day product</li><li>• Comprehensive performance evaluation of 22 precipitation and 23 soil moisture product</li></ul>	
	2015
including climate models, reanalyses, and remotely sensed data	
<ul style="list-style-type: none"><li>• Developed a soil moisture model trained on quality controlled observations and analyzed long-term spatiotemporal variability of soil moisture over a watershed</li></ul>	
	2014
<ul style="list-style-type: none"><li>• Analyzed spatiotemporal variability of precipitation within a watershed</li></ul>	
	2012-2013
<ul style="list-style-type: none"><li>• Contributed to the development of Cosmic Ray Soil Moisture Observing System (COSMOS) probe effective measurement depth function</li></ul>	
	2011
<ul style="list-style-type: none"><li>• Collected field samples for COSMOS soil moisture probe calibration</li></ul>	
	2010
<b>Supplemental Instructor at University of Texas at Dallas, Richardson TX</b>	2008-2009
<ul style="list-style-type: none"><li>• Developed lesson plans and lead weekly review sessions for PHYS2326 (electromagnetism and waves).</li></ul>	

## PUBLICATIONS

- Stillman, S.** and X. Zeng, 2018: Evaluation of SMAP soil moisture relative to five other satellite products using the Climate Reference Network measurements over the continental U.S., *IEEE Trans. Geosci. Remote Sens.*, **99**, doi: 10.1109/TGRS.2018.2835316
- Stillman, S.** and X. Zeng, 2016: Development of a 0.5° global monthly raining day product from 1901 to 2010, *Geophys. Res. Lett.*, **43**, 9704–9711, doi: 10.1002/2016GL070244.
- Stillman, S.**, X. Zeng, and M. G. Bosilovich, 2016: Evaluation of 22 precipitation and 23 soil moisture products over a semiarid area in southeastern Arizona. *J. Hydrometeor.*, **17**, 211–230. doi: <http://dx.doi.org/10.1175/JHM-D-15-0007.1>
- Stillman, S.**, J. Ninneman, X. Zeng, T. Franz, R. L. Scott, W. J. Shuttleworth, and K. Cummins, 2014: Summer Soil Moisture Spatiotemporal Variability in Southeastern Arizona. *J. Hydrometeor.*, **15**, 1473-1485, doi: 10.1175/JHM-D-13-0173.1
- Stillman, S.**, X. Zeng, W. J. Shuttleworth, D. C. Goodrich, C. L. Unkrich, and M. Zreda, 2013: Spatiotemporal variability of summer precipitation in southeastern Arizona. *J. Hydrometeor.*, **14**, 1944–1951, doi: 10.1175/JHM-D-13-017.1
- Franz, T. E., Zreda, M., Ferre, P. A., Rosolem, R., Zweck, C., **Stillman, S.**, Zeng, X., and Shuttleworth, W. J., 2012: Measurement depth of the cosmic-ray soil moisture probe affected by hydrogen from various sources, *Water Resour. Res.*, **48**, W08515, doi:10.1029/2012WR011871

## HONORS

- |   |      |
|---|------|
| AMS Early Career Leadership Academy participant (competitively selected)                          | 2019 |
| Hargis award, Dia del Agua Conference, Univ. of AZ (financial award for best poster presentation) | 2016 |
| Galileo Scholar, Univ. of AZ (financial award for excellent scholarship)                          | 2013 |
| Graduate Diversity Fellowship, Univ. of AZ (financial award for diversity in graduate programs)   | 2010 |
| Academic Excellence Scholarship, Univ. of TX Dallas (financial award for excellent scholarship)   | 2006 |

## OUTREACH AND VOLUNTEERING

- American Geophysical Union Fall Meeting session planner 2018
- Reviewed manuscripts for four respected peer reviewed journal 2015-present
- Community outreach through presenting science to middle and high school students 2015
- Presenter at N. American monsoon discussion at University of Arizona: weekly briefings of the progressions of the North American Monsoon and daily website updates on the monsoon activity in southwest US and Mexico. 2014
- Committee Chair of Atmospheric and Interdisciplinary Research Graduate Student Conference, a conference organized entirely by graduate students 2013-2014

## **PROFESSIONAL AFFILIATIONS**

American Geophysical Union Member

2014-present

American Meteorological Society Member

2010-present