



## BIOGRAPHICAL SKETCH: CRAIG R. FERGUSON

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### EDUCATION:

2010	Ph.D.	Civil & Environmental Engineering, Princeton University
2007	M.A.	Civil & Environmental Engineering, Princeton University
2005	B.S.	Environmental Resources & Forest Engineering, SUNY-College of Environmental Science and Forestry

### PROFESSIONAL RECORD:

2013–	Research Associate (Tenured), Atmospheric Sciences Research Center, University at Albany
2013	Special Appointed Associate Professor, Dept. of Hydrology & Water Resources Engineering, Institute of Industrial Science, The University of Tokyo
2012–2015	Adjunct Assistant Professor, Dept. of Environmental Resources Engineering, SUNY-ESF

### SELECTED PUBLICATIONS (7)

- Ferguson, C.R.** (2022), Changes in Great Plains low-level jet structure and associated precipitation over the 20<sup>th</sup> century, *JGR-Atmospheres*, 127, e2021JD035859, <https://doi.org/10.1029/2021JD035859>.
- Vergopolan, N., N. Chaney, M. Pan, J. Sheffield, H. Beck, **C.R. Ferguson**, L. Torres-Rojas, S. Sadri and E.F. Wood (2021), SMAP-HydroBlocks, a 30-m satellite-based soil moisture dataset for the conterminous US, *Springer Sci. Data*, doi: 10.1038/s41597-021-01050-2.
- Agrawal, S., **C.R. Ferguson**, D.A. Burrows and L. Bosart (2021), Teleconnections governing the interannual variability of Great Plains low-level jets in May, *J. Climate*, <https://doi.org/10.1175/JCLI-D-20-0451.1>.
- Ferguson, C.R.**, S. Agrawal, M. Beauharnois, G. Xia, D.A. Burrows and L. Bosart (2020), Assimilation of satellite-derived soil moisture for improved forecasts of the Great Plains low-level jet, *Mon. Wea. Rev.*, 148, 4607–4627, <https://doi.org/10.1175/MWR-D-20-0185.1>.
- Campbell, M., **C.R. Ferguson**, D.A. Burrows, M. Beauharnois, G. Xia and L.F. Bosart (2019), Diurnal effects of regional soil moisture anomalies on the Great Plains low-level jet, *Mon. Wea. Rev.*, 147, 4611–4631, <https://doi.org/10.1175/MWR-D-19-0135.1>.
- Burrows, D.A., **C.R. Ferguson**, M. Campbell, G. Xia and L.F. Bosart (2019), An objective classification and analysis of upper-level coupling to the Great Plains low-level jet over the twentieth century, *J. Climate*, 32, 7127–7152, <https://doi.org/10.1175/JCLI-D-18-0891.1>.
- Ferguson, C.R.** and E.F. Wood (2011), Observed land-atmosphere coupling from satellite remote sensing and reanalysis, *J. Hydrometeor.*, 12, 1221–1254, doi: 10.1175/2011JHM1380.1.

### PROFESSIONAL SERVICE AND ACTIVITIES:

- NOAA David Johnson Award (2014)** for Outstanding Innovative Use of Earth Observation Satellite Data
- Elected Panel Member**, GEWEX Global Land-Atmosphere System Study (GLASS), 2011–present. GEWEX Hydroclimate Panel (GHP), 2015–2020.
- Editor**, *Journal of Hydrometeorology*, 2022–2025.
- Science Team Member**, NASA Sounder Discipline Team, 2022-present.