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Employment

Assistant Professor, Department of Geological Sciences, Indiana University Bloomington, 2015–present.
Postdoctoral Research Fellow, NASA Jet Propulsion Laboratory, California Institute of Technology, 2013–2014.
Research Assistant, Department of Atmospheric Sciences, University of Utah, 2006–2013.
Intern, NASA Jet Propulsion Laboratory, 2005.

Education

Ph.D. Atmospheric Sciences, University of Utah, 2013.

Dissertation: The response of the general circulation to imposed forcings.

Committee: Thomas Reichler (chair), John Horel, Jian Lu, James Steenburgh, Courtenay Strong.

M. S. Meteorology, University of Utah, 2008.

Thesis: An evaluation of radio occultation measurements for long-term tropopause monitoring.

Committee: Thomas Reichler (chair), Gerald Mace, Chuntao Liu.

Attended ESA Earth Observation Summer School on Earth System Modeling and Monitoring, 2013.

Attended C-SPARC Summer School on Dynamics, long-term memory, and trends in the climate system. 2008.

B. S. Mathematics, Weber State University, 2006.

Fields of Research Interest

Atmospheric dynamics, climate-cloud interactions, remote instrumentation, and climate change.

Research

Refereed Articles

Staten, P. W., B. Kahn, M. Schreier, and A. Heidinger (2016): Subpixel characterization of HIRS spectral radiances using AVHRR and Clavr-X, *J. Atmos. Ocean Tech.*, 33, 7, doi:10.1175/JTECH-D-15-0187.

Palipane, E., J. Lu, P. W. Staten, et al. (2016): Investigating the zonal wind response to SST warming using transient ensemble AGCM experiments, *Clim. Dyn.*, doi:10.1007/s00382-016-3092-9.

Conrick, R., N. L. Curtis, P. W. Staten, C. Kirkpatrick (2016): The relationships between temperature gradient and wind during cold frontal passages in the eastern United States: a numerical modeling study, *Atmos. Sci. Lett.*, 17, 339–345, doi:10.1002/asl.663

Staten, P. W., T. Reichler, and J. Lu (2014): The transient circulation response to external forcings, *J. Climate*, 27, 9323–9336, doi:10.1175/JCLI-D-14-00035.1.

Staten, P.W., and T. Reichler (2013): On the ratio between shifts in the eddy-driven jet and the Hadley cell edge, *Clim. Dynam.*, 42, 1229-1242, doi:10.1007/s00382-013-1905-7.

Staten, P. W., J. Rutz, T. Reichler, and J. Lu (2011): Breaking down the tropospheric circulation response by forcing, *Clim. Dynam.*, 39, 2361-2375, doi:10.1007/s00382-011-1267-y.

Staten, P. W., and T. Reichler (2009): Apparent precision of GPS Radio Occultation Temperatures, *Geophys. Res. Lett.*, 36, L24806, doi:10.1029/2009GL041046.

Staten, P. W., and T. Reichler (2008): Use of radio occultation for long-term tropopause studies: uncertainties, biases, and instabilities, *J. Geophys. Res.*, 113, D00B05, doi:10.1029/2008JD009886.

Conference Presentations

Liu, X., P. W. Staten, B. H. Kahn, M. Schreier (2016): A13C-0270 Detecting Changes in Southern Ocean Cloud Properties Using Legacy Satellites, *AGU Fall Meeting*, San Francisco (CA), 12–16 December, (poster).

Conrick, R., N. L. Curtis, P. W. Staten, C. Kirkpatrick (2015): An analysis of surface gradient relationships during cold front events in the eastern United States: a numerical modeling study, *27th Conference On Weather Analysis And Forecasting/23rd Conference On Numerical Weather Prediction*, Chicago (IL), 28 June–3 July, (poster).

Staten, P., T. Reichler, and J. Lu (2015): Circulation widening in an instantaneously forced climate, *20th Conference on Atmospheric and Oceanic Fluid Dynamics*, Minneapolis (MN), 15–19 June, (talk).

Staten, P. (2015): Indiana's Climate - The last billion years, and the next hundred, *Crossroads Geology Conference*, Bloomington (IN), 27–28 March, (keynote talk).

Staten, P., B. Kahn, M. Schreier, A. Heidinger (2014): Comparing sources of variability in cloud-characterized HIRS radiances, *AGU Fall Meeting*, San Francisco (CA), 15–19 December, (poster).

Staten, P., B. Kahn, and T. Reichler (2014): How does the changing general circulation affect observed cloud types?, *94th American Meteorological Society Annual Meeting*, Atlanta (GA), 2–6 February, (poster).

Staten, P., B. Kahn, and T. Reichler (2013): How do cloud-types affect inter-satellite biases?, *AGU Fall Meeting*, San Francisco (CA), 9–13 December, (talk).

Reichler, T., P. Staten, and J. Lu (2012): Latitudinal shifts in precipitation: the role of anthropogenic forcings, *AGU Fall Meeting*, San Francisco (CA), 3-7 December, (talk).

Staten, P. and T. Reichler, J. Lu (2012): The relationship between latitudinal shifts in the eddy-driven jet and the Hadley cell, *AGU Fall Meeting*, San Francisco (CA), 3-7 December, (poster).

Staten, P.W., T. Reichler, and J. Lu (2011): Southern hemisphere circulation shifts in a warming climate, *WCRP Open Science Conference*, Denver (CO), 24–28 October, (poster).

Staten, P.W., T. Reichler, and J. Lu (2010): Understanding the Direct and Indirect Circulation Response to Radiative Forcings, *AGU Fall Meeting*, San Francisco (CA), 13–17 December, (poster).

Staten, P.W., T. Reichler, J. Rutz, and J. Kim (2010): How Ozone Depletion Causes Southern Hemispheric Climate Change, *AGU 2010 Meeting of the Americas*, Foz do Iguassu, Brazil, 8–12 August, (talk).

Staten, P.W. and T. Reichler (2008): Practical GPS RO Temperature Precision, *AGU Fall Meeting*, San Francisco (CA), 15–19 December, (poster).

Staten, P.W. and T. Reichler (2008): Space-Born Detection of Long-Term Tropopause Trends, *SPARC General Assembly*, Bologna, Italy, 31 August–5 September, (poster).

Staten, P.W. and T. Reichler (2008): Space-Born Detection of Long-Term Tropopause Trends, *C-SPARC Summer School on dynamics, long-term memory, and trends in the climate system*, Banff, Canada, 17–23 May, (poster).

Staten, P.W. and T. Reichler (2007): Can radio occultation be used to discern long-term tropopause trends? EMS7/ECAM8 Abstracts, Vol. 4, EMS2007-A-00531, *7th EMS Annual Meeting / 8th ECAM*, El Escorial, Spain, 1–5 October, (talk).

Sellar, R. G., J. D. Farmer, P. Gardner, P. Staten, A. Kieta, J. Huang (2007): Improved spectrometric capabilities

for in-situ microscopic imagers, *Seventh International Conference on Mars*, Pasadena (CA), 9–13 July (poster).

Teaching

Indiana University Bloomington

Assistant Professor of Atmospheric Sciences.

University of Utah

Classroom Scientist, Think Globally Learn Locally, 2010–2012.

Group Discussion Leader, IDL Discussion Group, 2010.

Teaching Assistant, Atmospheric Dynamics (METEO 6010), 2007–2008.

Weber State University

Mathematics Tutor, 2004–2006.

Supplemental Instructor, Elementary Linear Algebra (MATH 2270), 2005.

Professional Activities

Reviewer for *Climate Dynamics*, *Atmospheric Chemistry and Physics*, *JGR Atmospheres*, *Journal of Climate Geophysical Research Letters*, *QJRM*, *Atmospheric Measurement Techniques*, *Atmospheric Chemistry and Physics*,

Co-Chair, US CLIVAR Working Group on the changing Width of the Tropical Belt.

Member, ISSI Tropical Width Diagnostics Working Group.

Member, Caltech Postdoctoral Association Career Committee.

Treasurer, American Meteorological Society, University of Utah Chapter, 2008–2009.

Member, American Geophysical Union, 2006–present.

Member, American Meteorological Society, 2006–present.

Honors, Awards, & Fellowships

Caltech Postdoctoral Fellowship, 2013–2014.

NSF GK-12 Fellowship, 2010–2012.

Zipser Award for Excellence in Graduate Research, 2008.

NASA Earth and Space Science Fellowship, 2007–2010.

Graduate Fellowship, University of Utah, 2006.

Outstanding Math Graduate, Weber State University, Ogden, UT, 2006.

Summer Undergraduate Research Fellowship, California Technical Institute, CA, 2005

Presidential Scholarship, Weber State University, Ogden, UT, 2001.