

JACK SCHEFF

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Research interests

Hydroclimate change; hydroclimate in Earth history; atmospheric circulation change

Career

January 2015-December 2016: NSF AGS Postdoctoral Fellow and Lamont Fellow, Lamont-Doherty Earth Observatory, Columbia University. Mentor: Richard Seager

2014: PhD, Atmospheric Sciences, University of Washington (UW)

2011: M.S., Atmospheric Sciences, UW

2008: B.S. *Bronze Tablet*, Mathematics, University of Illinois Urbana Champaign (UIUC)

Fall 2007: Exchange student, International Asian Studies Program, Chinese University of Hong Kong

Honors

Invited speaker, AGU Fall Meeting 2013 (see below)

Outstanding Student Paper Award, AGU Fall Meeting 2012 (see below)

AMS / NASA Earth Science Graduate Fellow, 2008-2009

H. Roy Brahana Prize for outstanding graduating senior, UIUC Mathematics, 2008

Peer reviewed articles

Scheff, J., and D. M. W. Frierson, 2014: Scaling potential evapotranspiration with greenhouse warming. *J. Clim.*, **27**, 1539-1558, doi:10.1175/JCLI-D-13-00233.1. Cited by 5 (Google Scholar).

Scheff, J., and D. Frierson, 2012: Robust future precipitation declines in CMIP5 largely reflect the poleward expansion of model subtropical dry zones. *Geophys. Res. Lett.*, **39**, L18704, doi:10.1029/2012GL052910. Cited by 30 (Google Scholar).

Scheff, J., and D. M. W. Frierson, 2012: Twenty-first-century multimodel subtropical precipitation declines are mostly midlatitude shifts. *J. Clim.*, **25**, 4330-4347, doi:10.1175/JCLI-D-11-00393.1. Cited by 27 (Google Scholar).

Submitted manuscripts

Scheff, J., and D. M. W. Frierson, 2015: Terrestrial aridity and its response to greenhouse warming across CMIP5 models. *J. Clim.*, in revision.

Manuscripts in preparation

Scheff, J., and D. M. W. Frierson, 2015: Planetary temperature and continental moisture availability in an idealized GCM. *J. Clim.*, in prep.

Presentations

Invited talk, Caltech Environmental Science and Engineering seminar series, Pasadena, February 2015.

Invited talk, NASA Goddard Institute for Space Studies, New York, January 2015.

Poster presentation, AGU Fall Meeting, San Francisco, December 2014.

UW Atmospheric Sciences Colloquium and PhD defense talk, August 2014.

Invited talk, University of Chicago Geophysical Sciences, June 2014.

Invited talk at symposium "Climate-Migration, Local Conditions and Law", UW School of Law, February 2014.

Invited talk, AGU Fall Meeting, San Francisco, December 2013.

Poster presentation, AGU Fall Meeting, San Francisco, December 2013.

Poster presentation, Graduate Climate Conference, Woods Hole, November 2013.

UW Atmospheric Sciences Department Seminar, January 2013.

Talk, AGU Fall Meeting, San Francisco, December 2012. Won an AGU Outstanding Student Paper Award

Talk, Graduate Climate Conference, Pack Forest, Washington, October 2012.

Poster presentation, WCRP Workshop on CMIP5 Model Analysis, Honolulu, March 2012.

Poster presentation, Graduate Climate Conference, Woods Hole, October 2011.

Talk, AMS Conference on Atmospheric and Oceanic Fluid Dynamics, Spokane, June 2011.

UW Atmospheric Sciences Department Seminar and PhD qualification talk, April 2011.

Talk, AMS Annual Meeting, Seattle, January 2011.

Poster presentation, Graduate Climate Conference, Pack Forest, Washington, October 2010.

UW Atmospheric Sciences First Year Talk, September 2009.

Service

2012-present: Reviewer for Geophysical Research Letters, Journal of Climate, Journal of Geophysical Research, Water Resources Research, Climate Dynamics, and International Journal of Climatology.

2012: Co-organizer and advertising manager, 6th Graduate Climate Conference, Pack Forest, Washington.

2013-2014: Organizer, Graduate Student Seminar, UW Program on Climate Change.

2011-2013: K-12 Outreach Coordinator, UW Atmospheric Sciences.

2009-2014: K-12 Outreach participant, UW Atmospheric Sciences and UW Program on Climate Change.

2010-2013: Teaching Award coordinator, UW Atmospheric Sciences.

Teaching positions

Fall 2009: Teaching assistant for UW Atmospheric Sciences class "Global Warming: Understanding the Debate," lecturer: D. Battisti

2005-2008: Mathematics and physics tutor, UIUC Office of Minority Student Affairs.

Summer schools

August 2013: Advanced Climate Dynamics Course "Dynamics of the last deglaciation", Norwegian Research School of Climate Dynamics, Nyksund, Norway.

May 2009: "Fundamental problems in climate dynamics", Princeton Center for Theoretical Science and Atmospheric & Oceanic Sciences, Princeton University.

Institutional scholarships

UW Program on Climate Change Graduate Fellowship, 2010

UW Peter V. Hobbs Graduate Scholarship in Atmospheric Sciences, 2008

Undergraduate research

Summer 2007: Maximum-entropy estimation of deep-ocean ventilation and transport using tracers. NSF REU with Prof. François Primeau, University of California Irvine Earth System Science.

Summers 2006 & 2008: Fractal-based analysis of cloud ice particle imagery. With Prof. Greg McFarquhar, UIUC Atmospheric Sciences.