

## Christopher Bryan Skinner

Dept. of Earth and Environmental Sciences  
University of Michigan  
1100 North University Ave  
Ann Arbor, MI 48109

chrisbs@umich.edu  
(781) 264-4469

### EDUCATION

Ph.D., Environmental Earth System Science, Stanford University, 2014.

Dissertation Title: *The Response of Regional Climate to Global Forcing: The Dynamics of Climate Change in West Africa.*

B.S., Atmospheric Science, Cornell University, 2008.

### APPOINTMENTS

Turner Postdoctoral Fellow, Earth and Environmental Sciences, University of Michigan, 2014 –

Research Assistant, Environmental Earth System Science, Stanford University, 2009 – 2014.

Teaching Assistant, Environmental Earth System Science, Stanford University, 2011 – 2013.

Research Fellow, Earth and Atmospheric Sciences, Purdue University, 2008 – 2009.

Teaching Assistant, Atmospheric Sciences, Cornell University, 2008.

### PUBLICATIONS

Horton DE, **Skinner CB**, Singh D, Diffenbaugh NS (2014) Occurrence and persistence of future atmospheric stagnation events. *Nature Climate Change* 4(8):698-703.

**Skinner CB**, Diffenbaugh NS (2014) Projected changes in African easterly wave intensity and track in response to greenhouse forcing. *Proceedings of the National Academy of Sciences* 111:6882-6887. -- Highlighted article, Nowcast News and Notes, BAMS.

**Skinner CB**, Diffenbaugh NS (2013) The contribution of African easterly waves to monsoon precipitation in the CMIP3 ensemble. *Journal of Geophysical Research – Atmospheres* 118(9):3590–3609.

**Skinner CB**, Ashfaq M, Diffenbaugh NS (2012) Influence of 21<sup>st</sup> century atmospheric and sea surface temperature forcing on West African climate. *Journal of Climate* 25(2):527-542.

Ashfaq M, **Skinner CB**, Diffenbaugh NS (2010) Influence of SST biases on future climate change projections. *Climate Dynamics* 36(7-8):1303-1319.

**Skinner CB**, DeGaetano A, Chabot B (2010) Implications of 21<sup>st</sup> century climate change on northeastern United States maple syrup production: impacts and adaptations. *Climatic Change* 100(3-4):685-702.

## PRESENTATIONS

### Oral Presentations

**Skinner CB**, Response of regional climate to global forcing: The role of synoptic-scale weather systems in shaping climate change over West Africa, Turner Lecture Series, Earth and Environmental Sciences, University of Michigan, Feb 19, 2014, Ann Arbor, MI.

**Skinner CB**, Simulating African easterly waves in general circulation models, Atmosphere/Energy Program Seminar, Department of Civil and Environmental Engineering, Stanford University, Oct 15, 2013, Stanford, CA.

**Skinner CB**, Diffenbaugh NS, African easterly waves in CMIP5: Response to enhanced radiative forcing and implications for Atlantic tropical cyclone activity, 4<sup>th</sup> International Summit on Hurricanes and Climate Change, June 13-18, 2013, Kos, Greece.

**Skinner CB**, Ashfaq M, Diffenbaugh NS, The influence of convective and land surface processes on the variability of the West African Monsoon, 2010 AGU Fall Meeting, Dec 13-17, 2010, San Francisco, California.

### Poster Presentations

**Skinner CB**, Poulsen CJ, The role of regional atmospheric circulation changes in shaping climate reorganization in Africa, 2014 AGU Fall Meeting, Dec 15-19, 2014, San Francisco, California.

**Skinner CB**, Diffenbaugh NS, The impact of projected changes in monsoon season circulation and African easterly waves on Saharan dust transport, 2013 AGU Fall Meeting, Dec 9-13, 2013, San Francisco, California.

**Skinner CB**, Diffenbaugh NS, African easterly waves in CMIP5: future changes for West African precipitation and Atlantic tropical cyclone activity, 2012 AGU Fall Meeting, Dec 3-7, 2012, San Francisco, California.

**Skinner CB**, Diffenbaugh NS, The response of African easterly waves and associated precipitation to enhanced radiative forcing, 2011 AGU Fall Meeting, Dec 5-9, 2011, San Francisco, California.

**Skinner CB**, Ashfaq M, Diffenbaugh NS, High resolution climate modeling: a case study of West African summer climate, Department of Energy Office of Biological and Environmental Research Climate and Earth System Modeling PI Meeting, Sept 19-22, 2011, Washington, D.C.

**Skinner CB**, Ashfaq M, Diffenbaugh NS, The response of African easterly waves and associated precipitation to enhanced radiative forcing, African Weather and Climate Colloquium, July 25 – Aug 5, Boulder, Colorado.

**Skinner CB**, Ashfaq M, Diffenbaugh NS, The influence of convective and land surface processes on the West African Monsoon, 2011 Berkley Atmospheric Sciences Center Symposium, Feb 11, 2011, Berkley, California.

**Skinner CB**, Ashfaq M, Diffenbaugh NS, A quantification of GHG and SST forcing in West African climate change, 2009 AGU Fall Meeting, Dec 14-18, 2009, San Francisco, California.

**Skinner CB**, Ashfaq M, Diffenbaugh NS, A quantification of GHG and SST forcing in African climate change, 14<sup>th</sup> Annual CCSM Workshop, Jun 15-18, 2009, Breckenridge, Colorado.

## AWARDS

Turner Postdoctoral Fellowship, Department of Earth and Environmental Sciences, University of Michigan, 2014 – 2016.

Graduate Student Award for Scholarly and Research Achievement, Department of Environmental Earth System Science, Stanford University, 2013.

Student Travel Award, 4th International Summit on Hurricanes and Climate Change, 2013.

First Prize, Poster Presentation, School of Earth Sciences Research Review, Stanford University, 2012.

Centennial Teaching Assistant Award, School of Earth Sciences, Stanford University, 2011.

Ross Fellowship, Purdue University, 2008.

## TEACHING EXPERIENCE

Co-Advisor, Senior Honors Thesis, Alexander Thompson, Department of Earth and Environmental Sciences, University of Michigan, 2014 – 2015.

Guest Lecturer, *Atmosphere, Ocean, and Climate Dynamics: The Atmospheric Circulation*, Department of Environmental Earth System Science, Stanford University, 2013 – 2014.

Guest Lecturer, *Earth System Dynamics*, Department of Environmental Earth System Science, Stanford University, 2010 – 2014.

Teaching Assistant, *Earth System Dynamics*, Department of Environmental Earth System Science, Stanford University, Spring Quarter 2013.

Teaching Assistant, *Atmosphere, Ocean, and Climate Dynamics: The Atmospheric Circulation*, Department of Environmental Earth System Science, Stanford University, Winter Quarter 2011, Winter Quarter 2013.

Teaching Assistant, *Climate and Global Warming*, Department of Atmospheric Sciences, Cornell University, Spring 2008.

## WORK EXPERIENCE

### Northeast Regional Climate Center, Research Assistant

Utilized climate model output to investigate the impact of projected temperature changes on the Northeast United States maple syrup industry, 2007.

### Northeast Regional Climate Center, Official Weather Observer

Analyzed weather instrumentation and provided daily weather observations at the Game Farm Road Weather Station, Ithaca, NY, 2006 – 2007.

## PROGRAMMING EXPERIENCE

Matlab, Python, Fortran, NCL, R

**PUBLIC OUTREACH***Cornell University Teach to Reach Program*

Developed and taught meteorology and climate change curriculum, grades K-12, 2005 – 2008.

**MEMBERSHIPS**

American Geophysical Union, 2008 –

American Meteorological Society, 2008 –