

VITA OF LAURA SUZANNE HARRISON

Department of Geography, University of California, Santa Barbara, CA 93106-4060

harrison@geog.ucsb.edu

EDUCATION

Doctor of Philosophy in Geography, University of California, Santa Barbara
Dissertation: Impacts of Climate Variability on Surface Energy and Water Budgets in sub-Saharan Africa. December 2014.

Master of Arts in Geography, University of California, Santa Barbara
Thesis: Historical and Future Temperature Impacts on Maize Phenology and Stress Risk in Mozambique. December 2009.

Bachelor of Science in Physical Geography, University of California, Santa Barbara
June 2006.

PEER-REVIEWED PUBLICATIONS

Harrison, L., Michaelsen, J., Funk, C., Husak, G. (2011). Effects of temperature changes on maize production in Mozambique. *Clim Res* 46:211-222. 2011.
<http://www.int-res.com/abstracts/cr/v46/n3/p211-222/>

Grace, K., Harrison, L., Michaelsen, J., Pedreros, D., Husak, G. (2012). Using high resolution satellite imagery to estimate cropped area in Guatemala and Haiti. *Applied Geography* DOI:10.1016/j.apgeog.2011.05.014. 2012.
<http://www.sciencedirect.com/science/article/pii/S014362281100097X>

USGS Fact Sheet on temperature effects on phenology (October 2011). Using observed warming to identify hazards to Mozambique maize production.
<http://pubs.usgs.gov/fs/2011/3110/pdf/fs2011-3110.pdf>

PRESENTATIONS

(Invited) Harrison, L. (2014). Identifying sources of surface heating: Attribution of recent events in east Africa. UCSB Climate Research meeting. SB, CA. 12 Sep.

(Invited) Harrison, L., Michaelsen, J., Funk, C., Husak, G. (2013). Identifying food security hotspots by intersecting climate and vegetation trends with livelihoods. Association of American Geographers Annual Meeting. Los Angeles, CA. 11 Apr.

(Invited) Mahowald, N., Harrison, L., Shukla, S., Funk, C., Can earth system models be used for impact studies? (2012). Presented at 2012 Fall Meeting, American Geophysical Union. San Francisco, CA. 3-7 Dec.

(Poster) Harrison, L., Michaelsen, J., Funk, C., Carvalho, L., Still, C., McNally, A., Peters-Lidard, C. (2012). Identifying surface response to drought and heat with a land surface model and NDVI. Presented at 2012 Fall Meeting, American Geophysical Union. San Francisco, CA. 3-7 Dec.

Harrison, L., Michaelsen, J., Funk, C., Tarnavsky, E., Marshall, M., Brown, M. (2012) Vulnerability to near-term warming in the Sahel. U.S. Geological Survey FEWS NET Science Meeting. Santa Barbara, CA. 2-3 Oct.

(Poster) Harrison, L., Michaelsen, J., Funk, C., Tarnavsky, E., Marshall, M., Brown, M. (2011). High resolution projections of cropping season atmospheric evaporative demand in the African Sahel. World Climate Research Programme Open Science Conference. Denver, CO. 24-28 Oct.

Harrison, L., Michaelsen, J., Funk, C., Tarnavsky, E., Marshall, M., Brown, M. (2011). Temperature-driven PET Projections. American Meteorological Society Annual Meeting. Seattle, WA. 23-28 Jan.

(Invited) Harrison, L., Michaelsen, J., Funk, C., Husak, G. (2010). Warmer Season, Faster Growth. Quantifying temperature trends and projections as relevant to maize production in Mozambique. UCSB Climate Research meeting. SB, CA. 5 Feb.

Harrison, L., Michaelsen, J., Funk, C., Husak, G. (2009). Variation in Maize Phenology and Climatic Inputs: Yield implications of the past and future. Association of American Geographers Annual Meeting. Las Vegas, NV. 22-27 Mar.

WORKSHOPS

NCAR Community Earth System Modeling Tutorial (2013)
Tutorial included lectures on simulating the climate system and practical sessions on running the CESM, modifying components, and analyzing data. National Center for Atmospheric Research, Boulder, CO. 12 - 16 August.

Conservation Agriculture with Trees in Niger (2011)
Workshop was about agroforestry as a basis for food security and environmental resilience in Niger and the Sahel. Organized by World Agroforestry Centre and African Forest Forum. Field visit to Zinder and Maradi and Workshop at Palais des Congrès, Niamey, Niger. 12 – 20 January.

POSITIONS

Associate Instructor (Jun 2014-Aug 2014)
Geography 3A: Oceans and Atmosphere
Introduction to the oceans and atmosphere and their role in the Earth's climate and its weather patterns. Focus on the flows of solar energy through the ocean and atmosphere systems. Human impacts of the Earth's climate are also introduced. Teaching Assistant: Corbin Hodges.

Graduate Student Researcher (Jan 2008- Dec 2014)

Climate Hazards Group (CHG) <http://chg.geog.ucsb.edu/research/index.html>. CHG is a UCSB partnership with the U.S. Geological Survey as part of the Famine Early Warning System Network (FEWS NET).

Personal contributions:

- Observed and projected climate impacts on crop production and livelihoods in sub-Saharan Africa.
- Scientific support for climate change adaptation planning
- Climate trend analysis with in situ and remotely sensed observations
- Land surface, crop water balance and cropped area modeling
- Scientific data programming and support
- Africa hazards monitoring

Graduate Student Teaching Assistantships

Geog 3A Oceans and Atmosphere. Summer 2013 with Sarah Harris

Geog 110 Intro to Meteorology. Spring 2009 with Dr. Leila Carvalho

Geog 148 Geography of California. Fall 2007 with Dr. Joel Michaelsen

Graduate Student Reader (Spring 2010)

Labs for Geog 210C. Climate data analysis and spatial interpolation techniques.

Undergraduate Assistant, UCSB Dept. of Geography (May 2006-July 2007)

Full-time staff position. Provided support to the Undergraduate program and provided guidance to students.

AWARDS AND CERTIFICATIONS

Summer Teaching Institute for Associates (Nov 2014)

STIA is a program designed to promote effectiveness and scholarship in college and university teaching. STIA Associates completed interactive online activities, attended face-to-face workshops, and participated in UC faculty-led mentoring meetings. Specific topics included student learning and assessments, teaching methods, and course planning. May-September 2014.

Fellowship on Hazards (Jun 2013)

Awarded by the California Institute for Research on Hazards and the UCSB Earth Research Institute to support research that increases our understanding and forecasting of natural hazards.

2013 CESM tutorial financial support (Aug 2013)

Awarded from the National Center for Atmospheric Research.

Dangermond Travel Award (Oct 2011)

Full support to attend the World Climate Research Programme Open Science Conference. Denver, CO 24-28 Oct. 2011