

# Paul Laris

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## EDUCATION

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Ph. D. 2002      Clark University, Worcester MA 01610  
Graduate School of Geography

M.S.              San Jose State University  
Department of Environmental Studies

B.S.                University of California, Los Angeles  
Department of Engineering

## APPOINTMENTS

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2011-Present      Professor and Chair of Geography, California State University,  
Long Beach  
Director, Savanna LABO Research Lab

2013-2017        Professor and Chair of Geography  
Director, Environmental Science and Policy Program  
California State University, Long Beach

2009-2011        Director, Environmental Science and Policy Program, California  
State University, Long Beach

2008-2011        Associate Professor of Geography, California State University,  
Long Beach

2002- 2008       Assistant Professor of Geography, California State University,  
Long Beach

2001-2002        Lecturer in Geography, San Francisco State University

2000-2001        Lecturer in Geography, Sonoma State University

1998-2002        NASA Earth Systems Science Dissertation Fellow, Clark  
University

## RESEARCH AND TEACHING INTERESTS

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- Savanna Ecology: impacts of fire regimes, agriculture and other disturbances on savanna vegetation, seasonal-mosaic burning regimes
- Biogeography: Tree/grass dynamics in semi-arid zones
- Landscape Restoration
- Land-Use/Land Cover change
- Critical Physical Geography, Political Ecology
- Remote Sensing of Fire and Vegetation

## PUBLICATIONS

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### I. PEER-REVIEW PUBLICATIONS

- Laris, P.**, 2020. On the Problems and Promises of Savanna Fire Regime Change. *Commentary on "Emissions mitigation opportunities for savanna countries from early dry season fire management"* Lipsett-Moore et al. *Nature Communications (Forthcoming)*.
- Laris, P.**, Jacobs, R., Kone, M., Dembele, F. Rodrigue, C.M. & Camara, F. 2020. Determinants of fire intensity and severity in a mesic savanna of Africa. *Fire Ecology (Forthcoming)*.
- Kone, M., Dembele, F. **Laris, P.** 2019. Inventaire, typologie et estimation quantitative des gaz émis par les feux de brousse en savane soudanaise dans le sud Mali. *Revue de Géographie Tropicale et d'Environnement (Forthcoming)*.
- Laris, P.** & Jacobs, R. 2019. On the problem of "natural" savanna fires: Commentary on Veenendaal et al, 2018, *New Phytologist (forthcoming)*.
- Laris, P.**, Jo, Audrey., Wechsler, S., and Dadashi, S. 2018. The Effects of Landscape Pattern and Vegetation Type on the Fire Regime of a Mesic Savanna in Mali. *Journal of Environmental Management*. 227:134-145.
- Brennan, S., **Laris, P.**, & Rodrigue, C.M. 2018. Coyote brush as facilitator of native plant recovery in the Santa Monica Mountains. *Madrono*. 65(1):47-59.
- Laris, P.**, Kone, M., Dembele, F. 2017. The Early/Late Fire Dichotomy: Time for a Reassessment of Aubréville's Savanna Fire Experiments. *Progress in Physical Geography* 32: 611–634.
- Laris, P.**, Brennan, S., Engelberg, K. 2017. Prepping the landscape: Coyote Brush invasion of southern California grasslands. *Geographical Review* 107 (4): 640-659.
- Laris, P.**, Dadashi, S., Jo, A. & Wechsler, S. 2016. Buffering the savanna: Fire regimes and disequilibrium ecology in West Africa. *Plant Ecology* 217: 583–596.
- Laris, P.**, Caillault, S., Dadashi, S. and Jo, A. 2015. The human ecology and geography of burning in an unstable environment. *Journal of Ethnobiology* 35(1):111-139.
- Laris, P.**, Foltz, J.D. & Voorhees, B. 2014. Taking from cotton to grow maize: The shifting practices of small-holder farmers in the cotton belt of Mali. *Agricultural Systems* 133: 1-13.
- Laris, P.**, & Foltz, J.D. 2014. Cotton as Catalyst?: The *Shifting* role of fertilizer in Mali's Cotton Belt. *Human Ecology*, 42, 6: 857-872.
- Engelberg, K., **Laris, P.**, Nagy, B., and Eckardt, S. 2014. Comparing the Long-Term Impacts of Different Anthropogenic Disturbance Regimes on California Coastal Sage Scrub Recovery *Professional Geographer* 66, 3: 468-479.
- Laris, P.** 2013. Integrating land change science and savanna fire models in West Africa. *Land*, 2: 609-636.

- Dallman, S., Thien, D., **Laris, P.**, Ngo, M. 2013. Reinterpreting Traditional Cultural Properties: A Political Ecology of Emotion Perspective. *Human Geography* 7, 2: 29-45.
- Laris, P.**, & Dembele, F. 2012. Humanizing savanna models: integrating natural factors and anthropogenic disturbance regimes to determine tree-grass dynamics in savannas. *Journal of Land Use Science* 7: 459-482.
- Dallman, S., Ngo, M., **Laris, P.**, and Thien, D. 2012. Political Ecology of Emotion and Sacred Space: The Winnemem Wintu struggles with California water policy. *Emotion, Space & Society (on-line)*.
- Foltz, J.D., Aldana, U.T., **Laris, P.** 2012. The Sahel's Silent Maize Revolution: Analyzing Maize Productivity in Mali at the Farm-Level. NBER Working Paper Series, Working Paper 17801. <http://www.nber.org/papers/w17801>. National Bureau of Economic Research, Cambridge, MA.
- Laris, P.** 2011. Humanizing savanna biogeography: linking human practices with ecological patterns in a frequently burned savanna of southern Mali. *Annals of the Association of American Geographers*, 101 (5): 1067-1088).
- Laris, P.** 2008. An anthropogenic escape route from the "Gulliver syndrome" in the West African savanna. *Human Ecology* 36: 789-805.
- Laris, P.** and Bakkoury, A. 2008. Nouvelles leçons d'une vieille pratique: Mosaïque du feu dans la savane du Mali. *Bois et forêts des tropiques* 296 (2): 5-16.
- Klepeis, P. and **Laris, P.** 2008. *Estancias*, Hobby Ranching, and Chile's Land Reform Legacy. *The Geographical Review*. 98 (3): 372-394.
- Moseley, W. and **Laris, P.** 2008. Interrogating Past Lives: Questioning Environmental Narratives along the Transition from Development Volunteer to Academic. *The Geographical Review* 98 (1): 59-81.
- Laris, P.** and Wardell, D.A. 2006. Good, bad or "necessary evil?": reinterpreting the colonial burning experiments in the savanna landscapes of West Africa. *Geographical Journal* 172(4): 217-290.
- Klepeis, P., and **Laris, P.** 2006. Contesting Sustainable Development in Tierra del Fuego. *Geoforum* 37 (4): 505-518.
- Laris, P.** 2005. Spatiotemporal problems with detecting seasonal-mosaic fire regimes with coarse-resolution satellite data in savannas. *Remote Sensing of Environment* 99: 412-424.
- Laris, P.** 2002. Burning the Seasonal Mosaic: Preventative Burning Strategies in the Wooded Savanna of Southern Mali. *Human Ecology* 30 (2): 155-186.

## II. BOOK CHAPTERS AND OTHER PUBLICATIONS

- Laris, P.** 2013. Chapter 3: The Biophysical environment. In Moseley, *et.al.*, *An Introduction to Human-Environment Geography: Local Dynamics and Global Processes*.

**Laris, P.** 2013. "Chapter 7: Environmental Justice: The Uneven Distribution of People, Pollution and Environmental Opportunity." In Moseley *et.al.*, *An Introduction to Human-Environment Geography: Local Dynamics and Global Processes*.

Kull, C.A., & **Laris, P.** 2009. Fire ecology and fire politics in Mali and Madagascar. *Tropical Fire Ecology: Climate Change, Land Use and Ecosystem Dynamics*. Mark Cochrane (Ed.) Springer-Praxis, pp.171-226.

**Laris, P.** 2006. Managing a burned mosaic: A landscape-scale human ecological model of savanna fires in Mali. In Jay Mistry and Andrea Berardi (eds.) *Linking people with nature: lessons from savannas and dry forests*. Ashgate Publishing: 155-186.

**Laris, P.** and Klepeis, P. 2006. Degradation Narratives. In Geist, H. (ed) *The Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*. Greenwood Publishing Group (pp. 161-164).

Klepeis, P. and **Laris, P.** 2006. The Pristine Myth. In Geist, H. (ed) *The Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*. Greenwood Publishing Group (pp. 481-484).

Klepeis, P. and **Laris, P.** 2006. Land-Use History. In Geist, H. (ed) *The Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*. Greenwood Publishing Group (pp. 370-372).

**Laris, P.** 2004. Grounding Environmental Narratives: The Impact of a Century of Fighting Against Fire in Mali. In Moseley, W.G. and B.I. Logan (eds). *African Environment and Development: Rhetoric, Programs, Realities* Ashgate Publishing.

### III. BOOK REVIEWS

**Laris, P.** 2016. A Review of *The Arid Lands*. For *The Journal of Historical Geography*.

**Laris, P.** 2008. A Review of *Suffering for Territory: Race, Place, and Power in Zimbabwe*. For *Social and Cultural Geography* 9(7): 838-840.

**Laris, P.** 2006. A Review of *French Beans and Food Scars* by Susanne Freidberg for *The Geographical Review* 96 (1): p167-170.

**Laris, P.** 2005. A Review of *Isle of Fire* by Christian Kull for *Environmental Conservation* 32 (2): 193-4.

### IV. PUBLICATIONS IN REVIEW

**Laris, P.**, Kone, M., Dembele, Yang, L., Jacobs, R., F. & Camara, F. 2020. Methane gas emissions from savanna fires: What analysis of local burning regimes in a working West African landscape tell us. *Climate Change*.

**Laris, P.**, Seymour, C., Mills, M. 2020. What a long term, repeat study can tell us about California's native prairie landscapes. *Rural Landscapes: Society, Environment, History*.

**Laris, P.,** Yang, L., Dembele, F., Rodrigue, C.M. Fire and Water: The role of grasscompetition on juvenile tree growth and survival rates in a mesic savanna. *Plant Ecology*.

## V. PUBLICATIONS IN PREPARATION

**Laris, P.** Kone, M. Dembele, F., Yang, L. Savannas as greenhouse gas source or sink?

## AWARDS/GRANTS

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### EXTERNAL GRANTS RECEIVED

**P.I.** 2015-2020. National Science Foundation, Geography and Spatial Science (GSS). Creating Woodlands: Integrating Land Use Practices and New Savanna Ecological Models in Mali. \$250,000

Co-PI. with Fadia Dembele, P.I. 2018-2019. Partnerships for Enhanced Engagement in Research. United States Association for International Development (USAID). \$75,000.

Participant. 2014-2015. U.S.-Russia Peer-to-Peer Dialogue Program. Exploring Opportunities for Joint University Education: from online learning to mutually recognized MA degrees. \$100,000.

**P.I.** 2013-2016. National Science Foundation, Dynamics of Coupled Natural and Human Systems (CNH). Coupling burning practices, vegetation cover change and fire regimes to determine fire emission dynamics for a savanna in southern Mali. \$249,000.

**P.I.** 2011-2012. National Geographic Society's Committee for Research and Exploration. "Humanizing fire pixels: Linking regimes of savanna fires to their human causes." Mali, West Africa. \$19,365.00.

Faculty mentor, 2008-2010, Geoscience Diversity Enhancement Project (GDEP) NSF: \$1,088,000.

### INTERNAL GRANTS RECEIVED

Mini Grant Award 2020: Measuring Greenhouse Gas Emissions from Small Drones

Mini-grant, CSULB. 2019. Can UAVs Map Vegetation Alliances in Southern California?

OSRP Internal Research Grant, CSULB. 2018. An Improved Approach to Coastal California Vegetation Mapping Using Unoccupied Aerial Vehicles (UAVs). \$10,000

RSCA Summer Stipend Award 2011: *Determining the Causes of Vegetation Type-Conversion in the Santa Monica Mountains*

SCAC Summer Stipend Award (CSULB) 2010: *Cotton as Catalyst?: The Sahel's Silent Maize Revolution.*

SCAC Assigned Time Award (CSULB) 2009: *Exploring the long-term impacts of mechanical disturbances on stands of Coastal Sage Scrub.*

SCAC Assigned Time Award (CSULB) 2007 (Fall): *Integrating long-term biogeographical research and undergraduate education.*

SCAC Assigned Time Award (CSULB) 2006: *Investigating the role of practitioners in California Coastal Sage restoration*

SCAC Assigned Time Award (CSULB) 2005: *Mapping the Biodiversity of Forest Remnants and Explaining their Origins in Savanna-Woodlands of West Africa*

CSULB College of Liberal Arts award for assessment procedure development for Geography Department (with Dr. Holmgren). 2006. \$5000.

SCAC Mini-Grant Award Spring (CSULB) 2004. *A Land Change History of Tierra del Fuego* in collaboration with Peter Klepeis, Colgate University. Current research activities include assembling and analyzing a series of aerial photographs and TM satellite images for the island of Tierra del Fuego. The project is jointly funded by Colgate and CSULB. CSULB funding is for a student assistant: \$3,400.

Enhancing Educational Effectiveness Award (CSULB) 2003-4: *Curriculum Development for Environmental Geography*

SCAC Assigned Time Awards (CSULB) 2003-4: *Linking burning regimes with soil/vegetation patterns in the Malian savanna*

Best Student Paper. Cultural and Political Ecology Specialty Group. Annual Meeting of the Association of American Geographers. 2001.

NASA Earth System Science Dissertation Fellowship. 1998-2002: \$66,000

Pruser/Holzhauer Graduate Enhancement Fund 1998

Fulbright Nominee 1998

Tuition Fellowship: Clark University, 1995-2002.

Merit Scholarship of Faculty Wives: San Jose State, 1993

GRANTS SUBMITTED OR UNDER REVIEW

Laris, P. **P.I.** National Science Foundation (NSF-REU). 2019. Tracking Land Change (TLC): Working Ranch to Working Reserve. \$325, 000.

#### AWARDS

President's Award for Outstanding Faculty Achievement 2018. \$10,000

#### PAPER PRESENTATIONS

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Laris, P. 2013. "Walking Through Fire." Los Angeles Geographical Society, Los Angeles City College.

Laris, P. 2010. "Humanizing Savanna Ecology: linking human practices with ecological patterns in a frequently burned savanna of southern Mali." Anthropology Department, University College London, London.

Laris, P. 2009. "Humanizing models of tree-grass coexistence in African savanna landscapes." Geography Department, University of London, Royal Holloway.

Laris, P. 2009. "Humanizing regional-scale studies of African fire regimes." IEEE International Geoscience & Remote Sensing Symposium - IGARSS 2009, Cape Town, South Africa.

Laris, P. 2007. "Fire and Domestication of the West African Landscape" Gamma Theta Upsilon Lecture. Colgate University.

Laris, P. 2006. "Criss-Crossing Research Boundaries". 25<sup>th</sup> Annual James C. Young Colloquium. University of California at Riverside.

Laris, P. 2005. "Exploring the Scale Issue in Nature-Society Geography through a Study of Mosaic Fire Regimes in West Africa." Tod Spieker Colloquium Series, Geography Department, University of California at Los Angeles.

#### REFEREED CONFERENCE PRESENTATIONS

Laris, P. Jacobs, R., Kone, M. 2017. Determinants of fire intensity, severity and greenhouse gas emissions in a mesic savanna of West Africa. iLEAPS Conference Oxford, U.K.

Laris, P. 2010. "Domesticating Ecology": Situating humans within ecological models of savanna dynamics. Global Land Project Open Science Meeting Phoenix Az.

Laris, P. 2010. Revisiting Long-term Studies of Grassland/Woodland Boundaries: What can we Learn? Southern California Academy of Sciences Annual Meeting, Los Angeles.

Laris, P. 2009. "Humanizing regional-scale studies of African fire regimes. IEEE International Geoscience & Remote Sensing Symposium - IGARSS 2009, Cape Town, South Africa.

Laris, P. 2007 Conservation implications of the spatially explicit fire regime for the humanized savanna landscape of Mali. Paper presented at the Society for Conservation Biology 21<sup>st</sup> Annual Meeting Port Elizabeth, South Africa.

Laris, P. 2006. "Good, bad or "necessary evil?": Reinterpreting the colonial burning experiments in the savanna landscapes of West Africa." Paper presented at the Science and Democracy Network Meeting, Harvard University, Cambridge, MA.

Laris, P. 2003. "Missing the 'good' fires and detecting the 'bad' ones: problems with detecting patch-mosaic fire regimes using 1-kilometer data in savanna environments." Paper presented at the 30<sup>th</sup> International Symposium on Remote Sensing of Environment, Honolulu.

Laris, P. 2003. "Seasonal-Mosaic Burning in West African Savannas: Linking Human Practices and Biogeographical Theory." Paper presented at the International Conference on Tropical Savannas & Seasonally Dry Forests, Edinburgh, Scotland.

#### CONFERENCE PRESENTATIONS (NON-REFEREED)

Laris, P. 2017 Determinants of fire intensity and severity in a mesic savanna of Africa Paper presented at the Annual Meeting of the AAG, Boston

Laris, P. 2016. What is Early and what is Late?: The West African fire experiments and what they can (and can't) tell us about savanna fires Paper presented at the Annual Meeting of the AAG, San Francisco

Laris P. 2015. Buffering the Savanna: The human-ecology of burning in an unstable environment. Paper presented at the Annual Meeting of the AAG, Chicago

Laris, P. 2015. Recovering from the Second Wave?: Post-grazing CSS and Grass Dynamics in La Jolla Valley. Santa Monica Mountains Science Day.

Laris, P. 2014. Prepping the landscape: Coyote Brush invasion of southern California grasslands. Santa Monica Mountains Science Day.

Laris, P. 2013. Native invader or facilitator?: Coyote Brush invasion of southern California grasslands. Association of Pacific Coast Geographers. Lake Tahoe, CA.

Laris, P. 2013. Incorporating fire into models of savanna land change science. Paper presented at the 2013 Annual Meeting of the AAG, Los Angeles.

Laris, P. 2012. Untangling the factors that cause fire regime changes in West African savannas, Paper presented at the 2012 Annual Meeting of the AAG, New York.

Laris, P. 2010. Integrating biophysical and anthropogenic factors influencing tree regeneration on farmed savanna land in Mali, Paper presented at the 2010 Annual Meeting of the AAG, Washington D.C.

Laris, P. 2008. An anthropogenic escape route from the "Gulliver syndrome" in the West African savanna, Paper presented at the 2008 Annual Meeting of the AAG, Boston.

Laris, P. 2007. The 'legacy landscape' of fire and fallow in the Malian savanna, Paper presented at the 2007 Annual Meeting of the AAG, San Francisco CA.

Laris, P. 2006. "Biogeographical implications of indigenous burning regimes in southern Mali" Paper presented at the 2006 Annual Meeting of the AAG, Chicago

Laris, P. 2005. "Three views of a burned land: how issues of scale and narrative affect mapping and monitoring anthropogenic savanna fires in West Africa." Paper presented at the 2005 Annual Meeting of the AAG, Denver

Laris, P. 2003. "Patch-Mosaic Burning: Exploring the Linkages Between Human Practices and Biogeographical Theory." Paper presented at the 2003 Annual Meeting of the AAG, New Orleans

Laris, P. 2002. "Who Will Police the Savanna?: Environmental Monitoring and Fire Management in Mali." Paper presented at the 2002 Annual Meeting of the AAG, Los Angeles.

Laris, P. 2001. "Missing the Good Fires and Detecting the Bad Ones." Paper presented at the 2001 Annual Meeting of the AAG, New York, NY.

Laris P. 2000. "A Political Ecological Analysis of the Fire Code in Mali." Paper presented at the 2000 Meeting of the African Studies Association, Nashville TN.

Laris, P. 2000. "Defensive Burning Strategies in the West African Savanna." Paper presented at the 2000 Meeting of the AAG, Pittsburgh PA.

Laris, P. 1995. "Men's Role in Women and Development Projects in Mali." Paper presented at the International Conference on Sustainable Development, Washington D. C.

#### CONFERENCE PANEL ORGANIZER

Session Organizer and Chair. Pyrogeography. *Annual Meeting of the Association of American Geographers*, Boston 2017

Session Organizer and Chair. Pyrogeography. *Annual Meeting of the Association of American Geographers*, San Francisco 2016

Session Organizer and Chair. Pyrogeography. *Annual Meeting of the Association of American Geographers*, Chicago 2015

Symposium Organizer and Chair, Revisiting Long Term Studies of Coastal Sage Scrub/Grassland Boundaries in Southern California. *Southern California Academy of Sciences Annual Meeting*, Los Angeles 2010

Session co-organizer (with Chris Duvall) and chair, "Applied biogeography and cultural ecology in semi-arid Africa" *Annual Meeting of the Association of American Geographers*, Chicago 2006

Session co-organizer (with Bill Moseley), “New Perspectives on Environmental Narratives”  
*Annual Meeting of the Association of American Geographers, Denver 2005.*

### **THESES CHAIRED**

- Lilian Yang. 2020. *Effects of Fire Disturbance and Grass Removal on Tree Growth in Mesic Savannas.*
- Segnide, Guidimadjegbe. 2020. *The New face of Agriculture in Southern California: Ventura County Farmers’ Adaptations to Climate Change.*
- Rachel Vann-Foster. 2020. *Native California Forb and Grasslands: La Jolla Valley, Malibu A Long Term Study of Species Change over Time.*
- Alex Pakalniskis. 2019. *Detecting phenology markers for discernment of grass species at high spatial and temporal scale*
- Shane Eaves. 2019. *Critical Biogeography: Vegetation Change, Rephotography, and Constructions of Nature in Yosemite’s High Country*
- Rebecca Jacobs. 2018. *Determinants of fire intensity in a mesic West African savanna: a statistical analysis of fire characteristics*
- Chelsea Seymour. 2017. *Native versus exotics and grasses versus forbs in La Jolla Valley*
- Siegren Storer. 2016. *Evaluating Community perceptions of Coastal Sage Scrub Habitat at White Point Nature Preserve in San Pedro, California*
- Audrey Jo. 2015. *The Effect of Landscape Pattern and Vegetation Cover Types on the Fire Regime of a Savanna in Southern Mali*
- Samantha Roth. 2015. *Assessing Risk Perception and Risk Communication in the Big Bear Valley*
- Sean Brennan. 2015. *The Long Term Consequences of Coyote Brush Invasion in a Type-Converted Landscape of Southern California.*
- Jeff Cope. 2014. *Coastal Squeeze of Vegetation Zones in the Los Cerritos Wetlands: the Effect of Sea Level Rise.*
- Michael D. Nichols. 2012. *Political Ecology of the Central Valley Project: Protecting Water Access in the Westlands. (Co-Chair).*
- Kyra Engelberg. 2011. *Anthropogenic Disturbance Regimes and Coastal Sage Scrub Recovery: Comparing the Long Term Impacts of grazing and Cultivation in Southern California.*
- Austin Beahm. 2009. *The Political Ecology of Tourism Development in the Ecuadorian Amazon.*
- Samantha Antcliffe. 2009. *Native Plant Restoration of an Upland Transition Habitat Following the Eradication of Nonnative Tamarisk Within The Tijuana Estuary, California.*
- Lisa Wilkinson. 2007. *The Nature of Tree Preservation in Atascadero.*
- Scott Eckardt. 2006. *Wildfire Frequency and CSS Vegetation Dynamics. (CLA Outstanding Thesis Award and CSULB nominee for Western Association of Graduate Schools Annual Outstanding Thesis Award, 2007)*
- Colette Simonds. 2005. *Exotic plant species pattern in selected areas of Sequoia and Kings Canyon National Parks.*

### **PROFESSIONAL MEMBERSHIPS**

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- Member of the Association of American Geographers

- Member of the Association of Pacific Coast Geographers
- Member of the California Geographical Society
- Member of the African Studies Association
- Member of the American Society for Environmental History
- Member of the National Peace Corps Association
- Member of the Southern California Academy of Sciences
- Member of Sigma Xi

## **PROFESSIONAL SERVICE**

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- Editorial Board of *Human Ecology*
- Co-Founder and Board Member of MaliKalanso, Mali
- Councilor, Cultural and Political Ecology (CAPE) Specialty Group, Association of American Geographers
- Science Advisory Council Member, Palos Verdes Peninsula Land Conservancy

## **UNIVERSITY SERVICE**

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- Chair General Education Policy Committee 2012-2013
- Co-Chair University Sustainability Committee 2011-Present
- Vice Chair General Education Policy Committee 2010-2012
- Member General Education Policy Committee 2007-2013

## **JOURNAL REVIEWER**

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- Human Ecology
- Annals of the Association of American Geographers
- Remote Sensing of Environment
- Geoforum
- Geographical Review
- Society and Natural Resources
- Journal of Modern African Studies
- African Geographical Review
- International Journal of Wildland Fire
- PNAS
- Professional Geographer
- Journal of Arid Environments
- Applied Earth Observation and Geoinformation

## **COURSES TAUGHT**

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### **100 Level**

- Introduction to Physical Geography

### **300 Level**

- International Environmental Issues
- Environmental Geography

#### **400 Level**

- Humans as Agents of Environmental Change
- Biogeography
- Field Methods in Landscape Analysis
- Landscape Restoration
- Environmental Science and Policy Capstone

#### **Graduate Seminars**

- Nature-Society Geography
- Introduction to Geographic Thought