

Curriculum Vitae

A. PERSONAL INFORMATION

Name Travis Longcore, Ph.D.
Business Address University of Southern California
School of Architecture
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B. EDUCATION

Graduate UCLA, Los Angeles, California, Ph.D. (Geography), 1999
UCLA, Los Angeles, California, M.A. (Geography), 1995
University University of Delaware, Newark, Delaware, Honors B.A. (Geography) *summa cum laude*, 1993
Secondary Alströmerskolan, Alingsås, Sweden, Diploma in Natural Sciences, 1989
Orono High School, Orono, Maine, 1988

C. PROFESSIONAL BACKGROUND

Academic Appointments

Assistant Professor of Architecture, Spatial Sciences, and Biological Sciences, University of Southern California, 2015–present
Faculty Affiliate, Wrigley Institute for Environmental Studies, University of Southern California, 2012–present
Faculty Affiliate, GIS Research Laboratory, University of Southern California, 2001–present
Associate Adjunct Professor, Institute of the Environment and Sustainability, University of California, Los Angeles, 2010–present
Lecturer, School of Architecture, University of Southern California, 2012–2015
Associate Professor (Research) of Spatial Sciences, University of Southern California, 2010–2015
Associate Professor (Research) of Geography, University of Southern California, 2008–2010
Lecturer, Master of Liberal Studies Program, University of Southern California, 2007–2008
Lecturer, Institute of the Environment, University of California, Los Angeles, 2003–2010
Assistant Professor (Research) of Geography, University of Southern California, 2001–2008
Lecturer, Department of Ecology and Evolutionary Biology, University of California, Los Angeles, 2001–2006

Lecturer, Department of Geography, University of California, Los Angeles, 2000–2007
Postdoctoral Research Associate, Sustainable Cities Program, University of Southern California, 1999–2001

Administrative Responsibilities

Coordinator, Practicum in Environmental Science, University of California, Los Angeles, 2008–2014
Associate Director, Center for Sustainable Cities, University of Southern California, 2009
Director of Urban Ecological Research, Center for Sustainable Cities, University of Southern California, 2001–2009

Other

Research Associate, Natural History Museum of Los Angeles County, 2012–present
Co-founder and Science Director, The Urban Wildlands Group, 1996–present

D. HONORS AND AWARDS

Certifications

Certified GIS Professional (GISP®), License 91255, 2015–2020
Certified Senior Ecologist, Ecological Society of America, 2010–2021

Undergraduate

Alexander J. Taylor Award for Outstanding Senior Man, University of Delaware, 1993
Panel of Distinguished Seniors (College of Letters, Arts, and Sciences), University of Delaware, 1993
Geography Faculty Award, University of Delaware, 1993
Phi Kappa Phi Graduate Fellowship, Chapter Award, University of Delaware, 1993
Mid-Atlantic Region Finalist, Rhodes Scholarship, 1992
Fellow, Arizona Honors Academy for national security studies, Northern Arizona University, 1992
Merit Fellowship, International Summer School, University of Oslo, Norway, 1992
Marie Donaghay Award for Excellence in Geography, University of Delaware, 1992
Phi Beta Kappa (early induction), 1992
Pi Delta Phi (French national honor society), 1992
Golden Key National Honor Society, 1992
Phi Kappa Phi (national honor society), 1991
Phi Beta Kappa Clift and DeArmond Award, for sophomore with “greatest intellectual promise,” University of Delaware, 1991
George and Margaret Collins Seitz Award, for sophomore showing “extraordinary traits of fine character,” University of Delaware, 1991
Eugene duPont Memorial Distinguished Scholar Award, University of Delaware (100% 4-year merit fellowship), 1989

Graduate

Association of American Geographers, Conference Travel Award, 1999
National Science Foundation Dissertation Improvement Grant, 1998
Distinguished Doctoral Scholar Fellowship, UCLA Alumni Association, 1998

Portable Fellowship, UCLA Graduate Division, 1997
National Science Foundation Graduate Research Fellowship, 1993
Chancellor's Fellowship, UCLA Graduate Division (declined), 1993

Professional

Certificate of Appreciation, Street and Area Lighting Conference, Illuminating Engineering Society, 2013
Audubon Conservation Award, Palos Verdes/South Bay Audubon Society, 2010
UCLA Non-Senate Faculty Professional Development Award, 2010
National Military Fish & Wildlife Association, Natural Resource Conservation Research Award, 2009
California Department of Transportation, Excellence in Transportation Award (Environment), 2007
Certificate of Recognition (Palos Verdes Blue Butterfly Recovery Program), White House Conference on Cooperative Conservation, 2005
Certificate of Appreciation (Quino Checkerspot Butterfly Recovery Team), United States Fish and Wildlife Service, 2003
International Dark-Sky Association, Executive Director's Award, 2002

E. RESEARCH ACTIVITIES

Research Grants

Coast Light: Actionable Science to Manage Coastal Nightscapes, USC Sea Grant, PI, February 2018–February 2020, \$64,939 plus a Sea Grant Trainee
Reconstruction of Historical Topography to Estimate Erosion and Model Historical Vegetation Distribution on San Clemente Island, California, Department of the Navy, PI, September 2017–September 2019, \$109,869 [year 1 awarded: \$57,410]
Captive Breeding of Lange's Metalmark, U.S. Fish and Wildlife Service, Project Director, September 2017–September 2018, \$97,407
Laguna Mountains Skipper Summer Abundance and Larval Survival, U.S. Fish and Wildlife Service, Project Director, September 2015–September 2018, \$15,000
Vegetation Mapping and Modeling for Santa Catalina Island, Catalina Island Conservancy, PI, July 2017–July 2018, \$51,495
Light Pollution in National Park Service Units in the Mediterranean Network, 2014–2017, Santa Monica Mountains Fund, PI, July 2017–July 2018, \$8,500
Park Light: Trends in Night Sky Brightness and Upward Radiance from and near National Parks, USC Undergraduate Research Associates Program, PI, August 2017–May 2018, \$4,800
Habitat-Specific Light Pollution Measurements in the Mediterranean Network of National Parks, Santa Monica Mountains Fund, PI, March–December 2017, \$7,009
Captive propagation of and surveys for endangered Palos Verdes blue butterfly, Department of the Navy, Project Director, January 2015–December 2017, \$288,212
Captive Breeding of Lange's Metalmark, U.S. Fish and Wildlife Service, Project Director, September 2015–September 2017, \$123,129

Population Environmental Genomics of Crop Improvement, James H. Zumberge Research and Innovation Fund (Multi-school Interdisciplinary Award), co-PI, August 2016–August 2017, \$85,000

Park Light: A Framework to Monitor Nighttime Upward Radiance From and Near National Parks, USC Undergraduate Research Associates Program, PI, August 2016–August 2017, \$3,200

Green Space, Air Quality, and Obesity: Healthy Urbanism in Polluted Cities, USC Architecture Graduate Research Scholar Program, PI, January–May 2017, \$1,440

Historical Ecology of the Tijuana River Valley, San Francisco Estuary Institute, Project Director, 2014–2017, \$8,000

Baldwin Hills Biota Update, Baldwin Hills Conservancy/Baldwin Hills Regional Conservation Authority, PI, 2014–2016, \$281,000

Historical Ecology of the Elysian Valley, The Nature Conservancy, PI (subaward from LandIQ), 2014–2015, \$33,990

Survey and spatial analysis of invasive earthworms on San Clemente Island, Department of Defense, U.S. Navy, PI (subaward from Oklahoma State University), 2014–2015, \$19,399

Captive Breeding of Lange’s Metalmark, U.S. Fish and Wildlife Service, Project Director, 2011–2015, \$248,531

Captive propagation of and surveys for endangered Palos Verdes blue butterfly, Department of the Navy, Project Director, 2014, \$94,500

Captive Breeding of Laguna Mountain Skipper, National Fish and Wildlife Foundation, Project Director, 2012–2014, \$30,000

Stormwater Gardens in University Park, Graduate Research Scholar, USC School of Architecture, PI, 2013, \$1,440

Noninvasive technique to sample DNA from butterflies, Department of Defense Legacy Grant Program, PI, 2012–2013, \$38,000

Recovery strategy for Miami blue butterfly, U.S. Fish and Wildlife Service, Project Director, 2012–2013, \$10,000

Research strategy for habitat enhancement and reintroduction of Taylor’s checkerspot butterfly, Center for Natural Lands Management, Project Director, 2012–2013, \$38,000

Captive propagation of and surveys for endangered Palos Verdes blue butterfly, Department of the Navy, Project Director, 2012–2013, \$179,047

Wildlife friendly lighting guidelines for parks, Graduate Research Scholar, USC School of Architecture, PI, 2012, \$1,000

Analysis of survey data for Mission blue butterfly, Golden Gate National Parks Conservancy, Project Director, 2011, \$6,800

Captive propagation of and surveys for endangered Palos Verdes blue butterfly, Defense Logistics Agency, 2008–2011, \$246,128

Survey and report on status endangered Palos Verdes blue butterfly at Naval Housing Area, Los Angeles, Department of the Navy, Project Manager, 2011, \$13,426

Experimental captive propagation of endangered Lange’s metalmark butterfly, National Fish and Wildlife Foundation, Project Director, 2010–2011, \$55,000

Biological information spatial database and user interface for Defense Fuel Support Point, San Pedro Department of Defense Legacy Grant Program, PI, 2010–2011, \$91,765

Surveys and research promoting conservation of Kern Primrose Sphinx Moth, U.S. Bureau of Land Management, Project Director, 2005–2015, \$50,000

Historical ecology of wetlands in Ballona Creek watershed, Southern California Coastal Water Research Project, PI, 2009–2011, \$39,000

Historical ecology of the Santa Clara and Ventura rivers, San Francisco Estuary Institute, PI, 2008–2010, \$7,200

Captive propagation of endangered Lange's metalmark butterfly from the Antioch dunes, U.S. Fish and Wildlife Service, Project Director, 2007–2010, \$150,000

Strategic plan for captive rearing and reintroduction of the endangered Quino checkerspot butterfly, U.S. Fish and Wildlife Service, Project Director, 2007–2010, \$11,400

Genetic diversity of the Palos Verdes blue butterfly, California Department of Fish and Game Local Assistance Grant Program, Project Director, 2007–2009, \$15,000

Experimental captive propagation of Laguna Mountains Skipper, U.S. Fish and Wildlife Service, Project Director, 2007–2008, \$59,000

Phase III of *Green Visions Plan for 21st Century Southern California*, Wildlife Conservation Agency, Co-PI, 2007–2009, \$397,800

Captive propagation of and surveys for endangered Palos Verdes blue butterfly, Defense Logistics Agency, Project Manager, 2007, \$51,410

Guidelines for wildlife-friendly lighting, National Park Service, PI, 2006–2007, \$20,000

Stable isotope analysis to describe food webs of insect communities that include *Rhaphiomidas* species, U.S. Fish and Wildlife Service, PI, 2006–2007, \$15,000

Captive propagation of and surveys for endangered Palos Verdes blue butterfly, Defense Logistics Agency, PI, 2006, \$53,997

Anonymous peer review and biostatistical analysis of a major state-funded research project, Undisclosed State Agency, PI, 2006, \$7,500

Historical Ecology of Southern California Wetlands, University of Southern California Sea Grant, PI, 2006–2008, \$100,000

Historical ecology of San Gabriel River riparian forests, Southern California Coastal Water Research Project, PI, 2006, \$58,000

Status and trends of Western Snowy Plover in Central Coast region of California, California State Parks, PI, 2005–2007, \$180,000

Captive propagation of and surveys for endangered Palos Verdes blue butterfly, Defense Logistics Agency, PI, 2005, \$49,837

Underwriting publication of book, *Ecological Consequences of Artificial Night Lighting*, U.S. Geological Survey, PI, 2005, \$5,000

Population monitoring and trend analysis approach for Western Snowy Plover in Central Coast region of California, Morro Coast Audubon Society, PI, 2004–2005, \$10,000

Captive propagation of endangered Palos Verdes blue butterfly, Defense Logistics Agency, PI, 2004, \$38,729

Phase I and II of *Green Visions Plan for 21st Century Southern California*, San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy and others, Co-PI, 2003–2006, \$889,000

Analysis of butterfly survey data from San Bruno Mountain Habitat Conservation Plan, 1982–2000, Thomas Reid Associates, Inc. (for County of San Mateo, California), PI, 2003, \$14,200

Beach bluffs restoration project, Santa Monica Bay Restoration Commission and City of Redondo Beach, Co-PI, 2003, \$151,000

Captive propagation of and surveys for the endangered Palos Verdes blue butterfly Defense Logistics Agency, PI, 2003, \$43,779

Phytoremediation with native plants, James C. Zumberge Fund for Innovation, University of Southern California, Co-PI, 2003, \$50,000

Book support: *Ecological Consequences of Artificial Night Lighting*, Conservation and Research Foundation, PI, 2003, \$5,000

Urban Forest Assessment and Outreach at UCLA, California ReLeaf, PI, 2003, \$7,500

Management plan for Kern primrose sphinx moth, U.S. Fish and Wildlife Service, PI, 2002, \$10,000

Recovery plan for endangered Callippe silverspot butterfly, U.S. Fish and Wildlife Service, PI, 2002, \$24,000

Conference support: *Ecological Consequences of Artificial Night Lighting*, National Fish and Wildlife Foundation, PI, 2002, \$5,000

Conference support: *Ecological Consequences of Artificial Night Lighting*, Electric Power Research Institute, 2002, \$2,000

Captive propagation of endangered Palos Verdes blue butterfly, Defense Logistics Agency, PI, 2002, \$42,665

Habitat restoration for endangered El Segundo blue butterfly on private property in Torrance, California U.S. Fish and Wildlife Service Landowner Incentive Program, PI, 2001, \$37,300

Toward a sustainable Los Angeles: a “nature’s services” approach, John Randolph Haynes and Dora Haynes Foundation, co-author and key personnel, 2000, \$398,000

Assessment of “Cool Schools” tree planting program, Los Angeles Department of Water and Power, PI, 2000, \$9,000

Native plants in phytoremediation, New Research Design Award for a More Sustainable Los Angeles Region, John Randolph Haynes and Dora Haynes Foundation, PI, 2000, \$5,000

Grants Submitted

[Pending] ABI Innovation: Automated Georeferencing of Past Place Names in Biological Collections and Data Archives using Historical Maps, National Science Foundation, co-PI, 2017, \$841,748

Understanding and Mitigating Nighttime Light Encroachment at Military Installations (pre-proposal), Department of Defense Legacy Resource Management Program, PI, 2017, \$84,596

Domestication, Diversification, and Homologous Series in Fertile Crescent Grain Legumes, National Science Program PGRP-MINE, co-PI, 2016, \$892,320

ABI Innovation: Automated Georeferencing of Past Place Names in Biological Collections and Data Archives using Historical Maps, National Science Foundation, co-PI, 2016, \$748,161

Measuring Ambient Nighttime Light in Sleeping Habitats: An Alzheimer's Care Case Study, Southern California Environmental Health Sciences Center, PI, 2016, \$82,500

Building for Birds: How can Biodiversity Concerns Be Incorporated into Urban Planning and Design? [workshop proposal], National Center for Socio-environmental Synthesis, co-PI, 2016

Is Darkness on Beaches an Ecological Refuge? USC Sea Grant, PI, 2014, \$69,883

Does Light at Night Affect Age of Menarche in Girls? Southern California Environmental Health Sciences Center Pilot Project, PI, 2014, \$50,000

Dimensions: The Light Side of Dark - Community Desynchronization by Urbanization, NSF Dimensions in Biodiversity, co-PI, 2012, \$999,979

Development and Validation of a Prototype Smartphone System to Investigate Social Influences on Illumination in Sleeping Environments, National Institutes of Health: Sleep and Social Environment: Basic Biopsychosocial Processes (R21), PI, 2011, \$442,451

Dimensions: From Natural to Urban (and Back), NSF Dimensions in Biodiversity, co-PI, 2011, \$999,900

Mansionization and the Capacity of Single-Family Residential Neighborhoods to Provide Ecosystem Services, Haynes Foundation, PI, 2010, \$131,298

F. BIBLIOGRAPHY (*student author)

Peer Reviewed Articles

37. Paudel, S., J.C. Benavides, B. MacDonald, **T. Longcore**, G. W. T. Wilson, and S. Loss. Determinants of native and non-native plant community structure in an oceanic island. *Ecosphere* 8(9):e01927 (2017).
36. Gillespie, T. W., K. S. Willis*, S. Ostermann-Kelm, **T. Longcore**, F. Federico, L. Lee, and G. M. MacDonald. Inventorying and monitoring night light distribution and dynamics in the Mediterranean Coast Network of Southern California. *Natural Areas Journal* 37(3):500–510 (2017).
35. Lee, S. J, **T. Longcore**, C. Rich, and J. P. Wilson. Increased home size and hardscape decreases urban forest cover in Los Angeles County's single-family residential neighborhoods. *Urban Forestry and Urban Greening* 24:222–235 (2017).
34. **Longcore, T.**, and C. Rich. Ecological and organismic effects of light pollution. *eLS: Citable Reviews in the Life Sciences* doi: 10.1002/9780470015902.a0026328 (2016).
33. Kensek, K., Y. Ding*, and **T. Longcore**. Green building and biodiversity: facilitating bird friendly design with building information models. *Journal of Green Building* 11(2):116–130 (2016).
32. Paudel, S., G.W.T. Wilson, B. MacDonald, **T. Longcore**, and S. R. Loss. Predicting spatial extent of invasive earthworms on an oceanic island. *Diversity and Distributions* 22(10):1013–1023 (2016).
31. Paudel, S., **T. Longcore**, B. MacDonald, M. McCormick, K. Szlavecz, G. Wilson, and S. R. Loss. Belowground interactions with aboveground consequences: invasive earthworms and arbuscular mycorrhizal fungi. *Ecology* 97(3):605–614 (2016).
30. Swaddle, J. P., C. D. Francis, J. R. Barber, C. Cooper, C. C. M. Kyba, D. M. Dominoni, G. Shannon, E. Aschehoug*, S. Goodwin*, A. Y. Kawahara, D. Luther, K. Spoelstra, M. Voss, and **T. Longcore**.

- A framework to assess evolutionary responses to anthropogenic light and sound. *Trends in Ecology and Evolution* 30(9):550–560 doi: 10.1016/j.tree.2015.06.009 (2015).
29. **Longcore, T.**, H. Aldern,* J. Eggers,* S. Flores,* L. Franco,* E. Hirshfield-Yamanishi,* L. Petrinc,* W. Yan,* and A. Barroso. Tuning the white light spectrum of LEDs to reduce attraction of nocturnal arthropods. *Philosophical Transactions B* doi: 10.1098/rstb.2014.0125 (2015).
 28. **Longcore, T.**, and P. A. Smith. On avian mortality associated with human activities. *Avian Conservation and Ecology* 8(2):1 (2013).
 27. **Longcore, T.**, C. Rich, P. Mineau, B. MacDonald, D. G. Bert, L. M. Sullivan,* E. Mutrie*, S. A. Gauthreaux Jr., M. L. Avery, R. L. Crawford, A. M. Manville II, E. R. Travis, and D. Drake. Avian mortality at communication towers in the United States and Canada: which species, how many, and where? *Biological Conservation* 158:410–419 (2013).
 26. Newell, J. P., M. Seymour, T. Yee, J. Renteria, **T. Longcore**, J. R. Wolch, and A. Shishkovsky. Green alleys: planning for a sustainable urban infrastructure? *Cities* 31:144–155 (2013).
 25. Bartos, M.,* S. Dao,* D. Douk,* S. Falzone,* E. Gumerlock,* S. Hoekstra,* K. Kelly-Reif,* D. Mori,* C. Tang,* C. Vasquez,* J. Ward,* S. Young,* A. Morzillo, S.P.D. Riley, and **T. Longcore**. Use of anticoagulant rodenticides in single-family neighborhoods along an urban-wildland interface in California. *Cities and the Environment* 4(1):art12 (2012).
 24. **Longcore, T.**, C. Rich, P. Mineau, B. MacDonald, D. G. Bert, L. M. Sullivan,* E. Mutrie*, S. A. Gauthreaux Jr., M. L. Avery, R. L. Crawford, A. M. Manville II, E. R. Travis, and D. Drake. An estimate of avian mortality at communication towers in the United States and Canada. *PLoS ONE* 7(4):e34025 (2012).
 23. Rodrigues, P., C. Aubrecht, A. Gil, **T. Longcore**, and C. Elvidge. Remote sensing to map light pollution stress on Cory's Shearwater, *Calonectris diomedea borealis*, on São Miguel Island, Azores Archipelago. *European Journal of Wildlife Research* 58:147–155 (2011).
 22. **Longcore, T.**, and C. Rich. Light pollution and ecosystems. ActionBioscience.org original article http://www.actionbioscience.org/environment/longcore_rich.html. (June 1, 2010).
 21. **Longcore, T.** Sensory ecology: night lights alter reproductive behavior of blue tits. *Current Biology* 20(20):R893–R895 (2010).
 20. Stein, E., S. Dark, **T. Longcore**, N. Hall*, M. Beland*, R. Grossinger, J. Casanova, and M. Sutula. Historical ecology as a tool for assessing landscape change and wetland and riparian restoration priorities. *Wetlands* 30(3):589–601 (2010).
 19. **Longcore, T.**, C. S. Lam*, P. Kobernus, E. Polk, and J. P. Wilson. Extracting useful data from imperfect monitoring schemes: endangered butterflies at San Bruno Mountain, San Mateo County, California (1982–2000) and implications for habitat management. *Journal of Insect Conservation* 14(4):335–346 (2010).
 18. **Longcore, T.**, C. Rich, and L. M. Sullivan.* Critical assessment of claims regarding management of feral cats by trap–neuter–return. *Conservation Biology* 23:887–894 (2009).
 17. Aubrecht, C., C. D. Elvidge, **T. Longcore**, C. Rich, J. Safran, A. E. Strong, C. M. Eakin, K. E. Baugh, B. T. Tuttle, A. T. Howard, and E. H. Erwin. A global inventory of coral reef stressors based on satellite observed nighttime lights. *Geocarto International* 23(6):467–479 (2008).
 16. **Longcore, T.**, C. Rich, and S. A. Gauthreaux, Jr. Height, guy wires, and steady-burning lights increase hazard of communication towers to nocturnal migrants: a review and meta-analysis. *Auk* 125(2):486–493 (2008).

15. Elvidge, C. D., P. Cinzano, D. R. Pettit, J. Arvesen, P. Sutton, C. Small, R. Nemani, **T. Longcore**, C. Rich, J. Safran, J. Weeks, and S. Ebener. The Nightsat mission concept. *International Journal of Remote Sensing* 28(12):2645–2670 (2007).
14. **Longcore, T.**, C. Rich, and D. Müller-Schwarze. Management by assertion: beavers and songbirds at Lake Skinner (Riverside County, California). *Environmental Management* 39(4):460–471 (2007). [Recommended by Faculty of 1000 Biology, March 29, 2007.]
13. Jump, P. M., **T. Longcore**, and C. Rich. Ecology and distribution of a newly discovered population of the federally threatened *Euproserpinus euterpe*. *Journal of the Lepidopterists' Society* 60(1):41–50 (2006).
12. **Longcore, T.**, R. Mattoni, and A. Mattoni. Salvage of individual pupae as a mitigation measure for loss of Palos Verdes blue butterfly habitat. *Journal of the Lepidopterists' Society* 59(1):10–11 (2005).
11. **Longcore, T.**, C. Li*, and J. P. Wilson. Applicability of CITYgreen urban ecosystem analysis software to a dense urban neighborhood. *Urban Geography* 25(2):173–186 (2004).
10. **Longcore, T.**, and C. Rich. Ecological light pollution. *Frontiers in Ecology and the Environment* 2(4):191–198 (2004).
9. **Longcore, T.** Terrestrial arthropods as indicators of ecological restoration success in coastal sage scrub (California, U.S.A.). *Restoration Ecology* 11(4):397–409 (2003).
8. Mattoni, R., **T. Longcore**, Z. Krenova, and A. Lipman*. Mass rearing the endangered Palos Verdes blue butterfly (*Glaucopsyche lygdamus palosverdesensis*: Lycaenidae). *Journal of Research on the Lepidoptera* 37:55–67 (2003).
7. **Longcore, T.**, R. Mattoni, C. Zonneveld, and J. Bruggeman*. [INCA] INsect Count Analyzer: a tool to assess responses of butterflies to habitat restoration. *Ecological Restoration* 21(1):60–61 (2003).
6. Zonneveld, C., **T. Longcore**, and C. Mulder. Optimal schemes to detect presence of insect species. *Conservation Biology* 14(2):476–487 (2003).
5. Mattoni, R., **T. Longcore**, C. Zonneveld, and V. Novotny. Analysis of transect counts to monitor population size in endangered insects: the case of the El Segundo blue butterfly, *Euphilotes bernardino allyni*. *Journal of Insect Conservation* 5(3):197–206 (2001).
4. Mattoni, R., **T. Longcore**, and V. Novotny. Arthropod monitoring for fine scale habitat analysis: a case study of the El Segundo sand dunes. *Environmental Management* 25(4):445–452 (2000).
3. Mattoni, R., and **T. R. Longcore***. The Los Angeles coastal prairie, a vanished community. *Crossosoma* 23(2):71–102 (1997).
2. Mattoni, R., G. F. Pratt, **T. R. Longcore***, J. F. Emmel, and J. N. George*. The endangered Quino checkerspot butterfly, *Euphydryas editha quino* (Lepidoptera: Nymphalidae). *Journal of Research on the Lepidoptera* 34:99–118 (1997).
1. **Longcore, T. R.***, and P. W. Rees. Information technology and downtown restructuring: the case of New York City's financial district. *Urban Geography* 17(4):354–372 (1996).

Peer Reviewed Articles Submitted

1. **Longcore, T.**, N. Noujdina, and P. Dixon. Landscape modelling to predict the potential natural vegetation of Santa Catalina Island (California). *Western North American Naturalist* (resubmitted).
2. Jia, S., T. W. Gillespie, and **T. Longcore**. Stable nighttime lights declined in protected areas of California (1992–2012). *Environmental Research Letters* (in revision).

3. **Longcore, T.**, L. Almaleh,* B. Chetty,* K. Francis,* R. Freidin,* C.-S. Huang,* B. Pickett,* D. Schreck,* B. Scruggs,* E. Shulman,* A. Swauger,* A. Tashnek,* M. Wright,* and E. E. Boydston. Assumptions vs. evidence on wildlife corridor use in environmental impact assessment: a southern California case study. *Cities and the Environment* (in revision).
4. **Longcore, T.**, A. Rodríguez, B. Witherington, J. Penniman, L. Herf, and M. Herf. Rapid spectral assessment of alternative outdoor lighting sources to reduce ecological consequences. *Journal of Experimental Zoology A* (in revision).
5. Donners, M., R. H. A. van Grunsven, D. Groenendijk, F. van Langevelde, J. W. Bikker, **T. Longcore**, and E. Veenendaal. Colours of attraction: a general model for insect phototaxis. *Journal of Experimental Zoology A* (submitted).
7. Dupuis, J.R., J.C. Oliver, B.M.T. Brunet, **T. Longcore**, J.J. Johnson, and F.A.H. Sperling. Evaluating evolutionary significance with genomic data: a case study with the federally protected Lange's metalmark butterfly. *Conservation Biology* (submitted).

Peer Reviewed Articles In Preparation

1. Loss, S. R., T. Will, **T. Longcore**, and P. P. Marra. Responding to misinformation and criticisms regarding United States cat predation estimates.
2. **Longcore, T.**, N. Noujdina, P. Dixon, Emma Havstad, and Bryan Munson. Habitat suitability modelling to predict suitable habitat for *Sibara filifolia* — a rare Channel Islands plant.
3. Aguirre, A. A., M. Barbieri, D. Hill, **T. Longcore**, C. Lepczyk, E. L. Lilly, R. McLeod, J. Milcarsky, C. E. Murphy, C. Sizemore, C. Su, E. VanWormer, and R. Yolken. The One Health approach to toxoplasmosis: epidemiologic effects on humans, wildlife species, and ecosystems.
4. Lepczyk, C. A., D. C. Duffy, D. M. Bird, M. Calver, D. Cherkassky, L. Cherkassky, C. R. Dickman, S. Hess, D. Jessup, **T. Longcore**, S. R. Loss, K. A. T. Loyd, P. P. Marra, J. Marzluff, R. Noss, D. Simberloff, G. C. Sizemore, S. A. Temple, Y. van Heezik [co-authors alphabetical]. A science-based policy for managing free-ranging cats. *Conservation Letters* (in preparation).

Book

1. Rich, C., and **T. Longcore** (eds.). *Ecological consequences of artificial night lighting*. Island Press, Washington, D.C. (2006). [Reviewed in *Science*, *Ecology*, *Biological Conservation*, *Quarterly Review of Biology*, *Auk*, *Condor*, *Wilson Journal of Ornithology*, *Herpetological Review*, *ISLE*, *Natural Areas Journal*, *Environmental Entomology*].

Book Chapters

7. **Longcore, T.** GIST in undergraduate group capstone research projects in environmental science. In D. Cowan, ed., *STEM and GIS in Higher Education*, Esri Press, Redlands, California (2016).
6. **Longcore, T.**, and K. Osborne. Butterflies are not grizzly bears: Lepidoptera conservation in practice. Pp. 161–192 in J. C. Daniels, ed. *Butterfly conservation in North America: Efforts to help save our charismatic microfauna*. Springer Netherlands (2015).
5. Wolch, J. R., **T. Longcore**, and J. P. Wilson. Unpaving paradise: the Green Visions Plan. Pages 230–239 in D. Sloane (ed.). *Planning Los Angeles*. APA Planners Press, Washington D.C. (2012).
4. **Longcore, T.** Ecological effects of fuel management practices around residential development [sidebar]. Pages 527–528 in N. G. Sugihara, J. W. van Wagtenonk, K. E. Shaffer, J. Fites-Kaufman, and A. E. Thode (eds.), *Fire in California's ecosystems*. University of California Press, Berkeley (2006).

3. **Longcore, T.**, and C. Rich. Synthesis. Pages 413–430 in C. Rich and T. Longcore (eds.). *Ecological consequences of artificial night lighting*. Island Press, Washington, D.C. (2006).
2. Nightingale, B., **T. Longcore**, and C. A. Simenstad. Artificial night lighting and fishes. Pages 257–276 in C. Rich and T. Longcore (eds.). *Ecological consequences of artificial night lighting*. Island Press, Washington, D.C. (2006).
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66. **Longcore, T.** "You want a corridor for what?" *Lessons from the intersection of urban ecology, planning, and design*. International Urban Wildlife Conference (San Diego, California, June 4–7, 2017).
65. **Longcore, T.**, B. Banet*, M. Ordeñana, G. Pauly, and J.P. Dines. *Coyote and freeroaming cat detections are positively correlated in an urban wildland in Los Angeles*. International Urban Wildlife Conference (San Diego, California, June 4–7, 2017).
64. **Longcore, T.** *What does it mean to do geodesign?* Association of American Geographers Annual Meeting (San Francisco, California, April 5–6, 2017).
63. **Longcore, T.**, N. Noujdina, and P. Dixon. *Environmental Niche Modeling Generates Hypotheses of Potential/Historical Natural Vegetation: A California Channel Islands Case Study*. American Association of Geographers Annual Meeting (San Francisco, California, April 5, 2017).
62. **Longcore, T.** *Ecologically Sensitive Lighting Design* [3-part presentation with Linnaea Tillett and Nancy Clanton]. American Society of Landscape Architects 2016 Annual Meeting & Expo (New Orleans, Louisiana, October 21–24, 2016).
61. **Longcore, T.**, N. Noujdina, and P. Dixon. *Landscape modelling to predict the potential natural vegetation of Santa Catalina Island (California)*. 9th California Channel Islands Symposium (Ventura, California, October 3–7, 2016).
60. **Longcore, T.** *Envisioning nature in the city* [invited]. California Naturalist 2016 Statewide Conference (Running Springs, California, September 9–11, 2016).
59. **Longcore, T.** *Nighttime lighting blues: juggling the needs of people and critters*. LightFair International 2016 (San Diego, California, April 25, 2016).
58. **Longcore, T.** *Historical ecology of the Los Angeles River's Elysian Valley*. American Association of Geographers Annual Meeting (San Francisco, California, April 2, 2016).
57. **Longcore, T.** *Light pollution as global change*. California State Parks Association Mind Walk Lecture Series (Morro Bay, California, March 7, 2016).

56. **Longcore, T.** *Light pollution and the ecological consequences of artificial night lighting*. [AIA Health and NCQLP Continuing Education Units]. Illuminating Engineering Society – Mission (Antioch University, Santa Barbara, February 19, 2016).
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52. **Longcore, T.** *Light pollution as global change* [invited]. Artificial Light at Night 2015 (Sherbrooke, Quebec, May 29–31, 2015).
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48. **Longcore, T.** *Beyond turtles and towers: outdoor lighting, wildlife, and the environment*. Illuminating Engineering Society, Street and Area Lighting Conference (Phoenix, Arizona, September 9–11, 2013).
47. **Longcore, T.** *Use of natural history records in reconstruction of pre-urban Southern California landscapes*. Association of American Geographers 108th Annual Meeting (Los Angeles, California, April 11, 2013).
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 29. **Longcore, T.** *Open space, habitat conservation and watershed health in a metropolitan region: the Green Visions Plan for 21st Century Southern California* [invited keynote]. Urban Ecosystem Research Consortium 9th Annual Symposium (Portland State University, Portland, Oregon, January 26, 2009).
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 26. **Longcore, T.** *Lighting and wildlife: spectral considerations*. Outdoor Lighting Symposium (California Lighting Technology Center, Davis, September 9–10, 2008).

25. **Longcore, T.** *Green infrastructure for sustainable urban landscapes*. GreenXchange Global Marketplace Conference (Los Angeles, California, December 10–11, 2007).
24. MacDonald, B.*, **T. Longcore**, and S. Dark. *Inductive and deductive habitat models predict historic distribution of Western Snowy Plover on the Central Coast of California*. Association of American Geographers 103rd Annual Meeting (San Francisco, California, April, 2007).
23. Nguyen, T.*, **T. Longcore**, and J.P. Wilson. *Green does not mean ecologically vibrant in a Mediterranean climate*. Association of American Geographers 103rd Annual Meeting (San Francisco, California, April, 2007).
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20. **Longcore, T.**, C. Rich, and C. Luginbuhl (presenter). *Biological and ecological consequences of night lighting*. 33rd Annual Natural Areas Conference (Flagstaff, Arizona, September 20–23, 2006).
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11. **Longcore, T.** *Obvious and insidious effects of sprawl on wildlife* (invited plenary speaker). Smart Growth for Californians and Wildlife, National Wildlife Federation and Planning and Conservation League (San Diego, California, May 19–20, 2001).

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7. **Longcore, T.*** *Putting the bugs in: assessing ecological restoration with terrestrial arthropods.* Association of American Geographers 95th Annual Meeting (Honolulu, Hawaii, March 23–27, 1999).
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2. **Longcore, T.*** *The role of science in Natural Community Conservation Planning.* Restoring Our Commitment to Recovery in the Era of the Habitat Conservation Plan, Endangered Species Defense Coalition (Starr Ranch, California, July 30, 1996).
1. **Longcore, T.*** *Mainland colonization by endemic insular taxa.* XXXth Annual Southwest Population Biology Conference (James Reserve, California, April 20–21, 1996).

Poster Sessions

4. **Longcore, T.**, N. Noujdina, P. Dixon, Emma Havstad, and Bryan Munson. Habitat suitability modelling to predict suitable habitat for *Sibara filifolia* — a rare Channel Islands plant. 9th California Channel Islands Symposium (Ventura, California, October 3–7, 2016). [Also presented at Southern California Botanists Annual Meeting, Claremont College, Claremont, California, October 8, 2016].
3. Aubrecht, C., M. Jaiteh, A. de Sherbinin, **T. Longcore**, and C. D. Elvidge. Assessing impact of urban settlements on nearby protected areas: a satellite based global monitoring approach. EGU (European Geosciences Union) General Assembly 2010. *Geophysical Research Abstracts* 12:EGU2010-12758. Poster. Vienna, Austria.
2. Mattoni, R., **T. Longcore***, J. George, and C. Rich*. Down memory lane: the Los Angeles coastal prairie and its vernal pools. Poster presented at 2nd Interface Between Ecology and Land Development in California (Occidental College, Los Angeles, California, April 18–19, 1997).
1. **Longcore, T.*** and C. Rich.* 419 acres: UCLA’s natural history. 1. Land use, 2. Biological homogenization, 3. Island biogeography. Poster series and display presented at California’s Biodiversity Crisis: The Loss of Nature in an Urbanizing World (UCLA, October 24–25, 1998).

Popular Articles and Reports

21. **Longcore, T.** Wildlife interactions should be incorporated into ecological site certification [response to panel: *Imagine an “ecological certification” for urban design. What are such a certification’s key elements?*]. *The Nature of Cities* (August 21, 2017).

20. **Longcore, T.** Conservation conversation: Western Snowy Plovers past and future in Los Angeles County. *Western Tanager* 83(2):6–7 (November/December 2016).
19. **Longcore, T.** Conservation conversation: caring for nature in an age of utility. *Western Tanager* 83(1): 15 (September/October 2016).
18. **Longcore, T.**, and C. Rich. The night environment. *The Glenite* (Fall 2015).
17. **Longcore, T.** What should be the official animal of Los Angeles? *Zócalo Public Square* (August 9, 2013).
16. **Longcore, T.** President’s column. *Western Tanager* 78(6):E6–E7 (July/August 2012).
15. **Longcore, T.** UCLA undergraduates tackle urban wildlife research projects. *Urban Wildlife News (Newsletter of the Urban Wildlife Working Group of The Wildlife Society)* 10(2):8–9 (February 2012).
14. **Longcore, T.** President’s column. *Western Tanager* 77(5):1–2 (2011).
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12. Aubrecht, C., C. D. Elvidge, D. Ziskin, **T. Longcore**, and C. Rich. “When the lights stay on” – A novel approach to assessing human impact on the environment. *Earthzine* (online, 2008).
11. **Longcore, T.** Drill, baby, drill? Election 2008 website (election2008.usc.edu), University of Southern California Media Relations (September 12, 2008).
10. **Longcore, T.**, and C. Rich. Invertebrate conservation at the gates of hell. *Wings: Essays on Invertebrate Conservation* [invited] 31(1):9–13 (2008).
9. **Longcore, T.** Prioritizing multiple-benefit watershed projects: dollars or sense? *Watershed Wise* (Los Angeles and San Gabriel Rivers Watershed Council) (Fall 2006).
8. Stephens, C. Darkness visible: an interview with Travis Longcore and Catherine Rich. *Cabinet* 21:101–103 (2006).
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6. **Longcore, T.*** (ed.). *Biological assessment: coastal sage scrub at University of California, Los Angeles*. Prepared by Geography 123, Dr. R. Mattoni, Lecturer (unpublished report, December 1997).
5. **Longcore, T.*** The endangered Delhi sand dunes. *Western Tanager* 63(8):1–2 (1997).
4. **Longcore, T.*** LAAS Year in review. *Western Tanager* 63(7):1–3 (1997).
3. **Longcore, T.*** Election special: comparative excerpts from party platforms. *Western Tanager* 63(3):1–3 (1997).
2. **Longcore, T.*** Big birdathon day. *Western Tanager* 63(1):1–3 (1997).
1. Rich, C.*, and **T. Longcore.*** *Consultation issues at UCLA: landscape and construction* (unpublished report, February 1996).

Panels

6. 1200 Play Yards: A Patchwork of Potential (Panel Discussion Exploring the Potential of LA’s Public Lands). Association of Women in Architecture Foundation, June 22, 2017
5. State of the Bay Conference, Santa Monica Bay Restoration Commission, September 11, 2015

4. Natural History of Los Angeles — Our Coastal Environment: Past, Present and Future, Natural History Museum of Los Angeles County and USC Wrigley Institute for Environmental Studies, April 27, 2015
3. Southern California Climate Update, AltBuild Symposium, May 11, 2013
2. The Science Behind the Sustainable Plant Palette, Gardening Under Mediterranean Skies Conference, September 23, 2010
1. ESRI California, Nevada, Hawaii, Regional User Group Conference, invited panelist for closing round table discussion, Redlands, California, February 4, 2010

Media Appearances

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- Oder, T. How your garden springs to life at night. *Mother Nature Network* October 6, 2017).
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- Ricci, J. Park to open a panoramic window on L.A. *Los Angeles Times*, B2 (January 23, 2007). Quoted on physical and social geographic context of new park.
- Roberson, M.-R. Night, interrupted. *Zoogoer*, pp. 14–21 (January 2007). Quoted in overview article on ecological light pollution.
- Pre-2007: Associated Press, *Boston Globe*, *The Californian* (Salinas, California), *Christian Science Monitor*, *Daily Breeze* (Torrance, California), *Daily Bruin* (Westwood, California), *Financial Times*, *The Globe and Mail* (Toronto), *Las Vegas Sun*, *Los Angeles Daily News*, *Los Angeles Times*, *Metro Santa Cruz*, *Milwaukee Journal Sentinel*, *National Geographic Today* (online), *The Press-Enterprise* (Riverside, California), *Sacramento News and Review*, *San Jose Mercury News*, Scripps Howard News Service (Washington, DC), *USA Today*, *Ventura County Reporter*, *The Westsider* (Los Angeles), *California Wild, Conservation In Practice*, *Discover*, *Life*, *People*, *Reader's Digest* (Canada), *Science*, *Science News*, BBC World Service, CNN Radio Español, KPCC (“Talk of the City”), National Public Radio (“Talk of the

Nation”), ABC News, KNBC TV (“Today in LA”), KCAL News, KCBS News, National Geographic Television (“America’s Endangered Species: Don’t Say Goodbye”), NBC Nightly News

G. INVITED LECTURES

International

University of Stockholm, Department of Zoology, Stockholm, Sweden, September 2000

University of Göteborg, Department of Applied Environmental Science, Göteborg, Sweden, September 2000

National

National Park Service Lighting Workshop, Boulder, Colorado [online], December 18, 2017

Colorado Plateau Dark Sky Cooperative Stakeholder Workshop [online], November 16, 2017

Lorquin Entomological Society, Rancho Dominguez, California, June 23, 2017

California State Polytechnic University, Pomona, College of Environmental Design, May 31, 2016

Occidental College, “Spatial Insights for Applied Ecology: Found Data, Large-Scale Synthesis, and Mapping,” Department of Biology, October 6, 2015

Invited Participant, Greater Los Angeles Biodiversity Workshop Series (1. Enhancing Our Knowledge), The Nature Conservancy, January 24, 2015

Guest Speaker, “Designing for nature in the city,” Mountains Recreation and Conservation Authority/Santa Monica Mountains Conservancy, September 26, 2014

Invited Participant, “Anthropogenic sensory stimuli as drivers of evolution: a conceptual synthesis and roadmap for an integrated citizen-science research network,” Catalysis Meeting at National Evolutionary Synthesis Center (PIs: C. Cooper, C. Francis, and J. Barber), Duke University, Durham, North Carolina, April 24–28, 2014

Department of Biological Sciences, Pomona College, February 13, 2014

Urban Ecology undergraduate course, Pomona College, February 13, 2014

Urban Design Research Seminar, College of the Built Environment, University of Washington, October 22, 2013

Wildlife Seminar, School of Environmental and Forest Sciences, University of Washington, October 21, 2013

Invited Briefing, “Beyond the headlines: species-specific estimates of avian mortality from anthropogenic sources,” Birds/Building/Glass/Lighting Information Meeting, U.S. Fish and Wildlife Service, Arlington, Virginia, April 18, 2013

Guest Lecture, M.Arch. Studio (Boberska), Woodbury University, January 16, 2013

Discussant, Urban Growth Seminar Series, USC Sol Price School of Public Policy, November 27, 2012

AIA-Los Angeles, Committee on the Environment, “Airborne Los Angeles,” November 17, 2012

Keynote Presentation, “Models, Mortality, and Policy: Approaches to Urban Bird Conservation,” Smithsonian Conservation Biology Institute Spring 2012 Science Convivium, Front Royal, Virginia, March 19, 2012

AltBuild Symposium, "Urban Greening and Community Restoration," City of Santa Monica, May 8, 2011
"Dune Restoration with Native Plants," Beach Ecology Coalition, Los Angeles, April 21, 2011
"Sustainable Skies," National Park Service Science Festival, Paramount Ranch, April 15, 2011
LA Bioneers, "Living Ecologically: Why Seeing Green in the Day and Black at Night is Better for You and the Planet," September 23, 2009.
Emerging Green Builders, Los Angeles, "Birds and Buildings," University of Southern California, February 25, 2009
Sustainable Skies: Light Pollution, Its Causes, Consequences, and Prevention, Missouri State University Public Affairs Convocation Series, February 9, 2009
Briefing for staff on light pollution, U.S. House of Representatives, Washington, D.C., June 20, 2008
Mountains Recreation Conservation Authority, Los Angeles, California, March 23, 2008
EDAW, Ecology and Design Group, Irvine, California, February 25, 2008
The Inland Empire: Toward a More Humane Metropolis, Riverside, California, January 24, 2008
City of Los Angeles Taskforce on Los Angeles River Revitalization Plan, January 2008
American Society of Landscape Architects, UCLA Student Chapter, "Urban Wildlands Designs: Integrating Ecology and Landscape Architecture," November 2007
Los Angeles River Master Plan Advisory Committee, "Green Visions Plan for 21st Century Southern California," October 2007
Morongo Basin Lighting Conference, "Lights Out! For Nature (and People)," October 2007
Los Angeles and San Gabriel Rivers Watershed Council, October 2006
Communication Tower Working Group, Research Subcommittee, April 2005
University of California, Los Angeles, Department of Urban Planning and Institute of the Environment, "Sustainable Development for the 21st Century" Seminar Series, April 2005
California Studies Association Sixteenth Annual Conference, "Sheltering Biodiversity: Living With Other Species In and Around Los Angeles," April 2004
University of California, Los Angeles, Department of Geography, February 2004
Sustainability Training, City of Los Angeles Department of Parks and Recreation, May 2003
Sustainability Training, City of Los Angeles Department of Public Works, September 2002
South Coast Wildlands Project Missing Linkages Workshop, August 2002
University of Southern California, Department of Geography, February 2002
Santa Monica Mountains Conservancy, September 2001
California Native Plant Society, South Coast Chapter, August 2001
CLE International Endangered Species Act and Habitat Conservation Planning Conference, "The Integration of Science and Law in Habitat Conservation Planning," June 2001
California State University, Northridge, Olivatt Library, April 2001

University of California Natural Resources Continuing Conference, Wrigley Institute for Environmental Studies, April 2001

Society for Ecological Restoration, California Chapter Annual Conference, October 2000

Lorquin Entomological Society, Los Angeles, California, June 2000

University of California, Los Angeles, Department of Geography, May 2000

Southern California Institute of Architecture, guest lecture for Mike Davis, June 1998

Los Angeles Unified School District Target Science, “Butterflies in the City” Workshop Series, South Central Los Angeles Leadership Team, October 1998

University

Mid-term Review, Architecture 402, February 16, 2017

Guest Lecture on GIS, Architecture 544 (Urban Landscape: Process and Place), October 26, 2016

Guest Lecture on urban conservation, Spatial Sciences 165 (Sustainability Science and the City), October 7, 2015

Guest Lecture on historical ecology of the Baldwin Hills and Ballona Creek, Architecture 705 Studio (Uncovering Ecologies), September 16, 2015

Learning in the City, Part II: Community Collaborations, Center for Excellence in Teaching, University of Southern California, March 6, 2015

“Interstitial greening for a drought-resilient city,” USC Center for Sustainable Cities Spring Forum: Envisioning Drought Resilient Cities, May 6, 2014

USC Watershed Forum, “Water and Land: Shaping the Future of the Los Angeles River Watershed,” September 2007

“Meeting the Sustainability Challenge,” Executive Education, University of Southern California, Center for Sustainable Cities, November 2005

H. TEACHING

Courses Taught

University of Southern California

SSCI 135 Maps in the Digital World (renamed from Numbers and Maps) (General Education; new course)

ARCH 361 Ecological Factors in Design (complete course revision)

ARCH 531 The Natural Landscape (complete course revision)

ARCH 541 New Media and Landscape Architecture (1/3 of course, GIS introduction)

ARCH 547 Urban Nature (new course)

GEOG 601 Sustainable Cities (co-taught)

MLS 516 Urban Conservation Biology (new course)

MLS 570 Ecology of Night (new course)

UCLA

GEOG 2 Biodiversity in a Changing World

GEOG 5 People and the Earth’s Ecosystems (General Education course)

GEOG 108 World Vegetation

GEOG 111 Forest Ecosystems

GEOG 123 Bioresource Management (complete revision)

GEOG 124 Environmental Impact Analysis (complete revision)
EEB 100 Introduction to Ecology and Behavior (co-taught)
EEB 122 Ecology
EEB 124 Field Ecology
ENV M1C Ecology and Conservation of California Oaks (new course; freshman seminar)
ENV M1C Nature After Dark (new course; freshman seminar)
ENV 180A/B/C Practicum in Environmental Science (developed three-course sequence)

Student Research Supervised

Undergraduate Research

- Gutierrez-Dewar, Eliza and Julia Fruithandler (independent research) 2017–2018
“Satellite-measured Lights to Describe Spatial and Temporal Dynamics of Squid Boats on the Pacific Coast”
- Verendia, Camille, Lisa Cortright, and Jasper McEvoy (independent research) 2017–2018
“Inventory of Outdoor Lighting at Wrigley Marine Science Institute”
- Banet, Ben, Harrison Knapp, and Yu Chuan Shan (independent research) 2015–2018
“ParkLight: A Framework to Monitor Nighttime Upward Radiance In and Around National Parks”
Poster received 3rd place in Physical Sciences and 2nd place in Schwarzenegger Prize for Research at USC Undergraduate Research Symposium, 2016
Banet awarded USC Sumer Undergraduate Research funding, 2016
Banet awarded summer travel support from Wrigley Institute for Environmental Studies, 2016
Shan awarded John O. Behrens ILI Memorial Scholarship from ASPRS Imaging and Geospatial Society, Spring 2017
Banet awarded USC Student Opportunities for Undergraduate Research funding, Spring 2017
Banet awarded USC Provost’s Undergraduate Research Award, Fall 2017
- Aldern, Hannah, John Eggers, Steve Flores, Lesly Franco, Eric Hirshfield-Yamanishi, Laina Petrinc, and Wilson Yan (B.S. practicum project for Philips Lighting) 2014
“Tuning the white light spectrum of residential lamps for reducing nocturnal insect attraction”
- Chan, Jennifer M., Terry H. Chen, Yuxin Jin, Nicole M. Tachiki, Sara L. Vetter, Megan L. Vyeniello, Gina Y. Zheng (B.S. practicum project for National Wildlife Federation) 2014
“Evaluating Certified Wildlife Habitats and the minds behind them”
- Almaleh, Lindsay, Brittany Chetty, Kathryn Francis, Ching-Sheng Huang, Brooke Pickett, and Mike Wright (B.S. practicum project for U.S. Geological Survey) 2013
“Performance of a freeway underpass as a regional wildland linkage for mammals”
- Briones, Tatiana, Wendy Chao, Joshua Cox, Thomas Lau, Alizah Mooman, Amy Send, and Isabel Sepkowitz (B.S. practicum project for Cornell Lab of Ornithology) 2013
“Development of citizen science protocols to measure sound and light levels for bird ecology”
- Gabriel Albano, Tanya Bitcon, Maanya Condamoor, Sirena Lao, Greg Lopez, Ryan Sokolovsky, and Allen Vicencio (B.S. practicum project for Mountains Recreation Conservation Authority) 2012
“Large mammal movement in the eastern Santa Monica Mountains”
- Brett Bova, Misa Downey, Natalie Marte, Justin Penn, Kirstie Ruppert, Karen Vu, and Shotaro Yamada (B.S. practicum project for National Park Service) 2012
“Climate change vulnerability assessments for terrestrial and freshwater vertebrates in the Mediterranean Coast Network of National Parks”

- Robert Freidin, Diane Schreck, Brooke Scruggs, Elise Shulman, Alissa Swauger, and Allison Tashnek (B.S. practicum project for Mountains Recreation Conservation Authority) 2011
“Wildlife use of the Los Piñetos underpass, Santa Clarita, California”
- Margarita Armendariz, Allison Davison, Alessandro Maganuco, and Aaron Whitby (B.S. practicum project for Los Angeles Audubon) 2011
“Crow density and anthropogenic subsidies near the Venice, California Least Tern colony”
- Monica Bartos, Stephanie Falzone, Kaitlin Kelly-Reif, Cassandra Vasquez, and Jennifer Ward (B.S. practicum project for National Park Service) 2010
“Residential use of chemical rodent control from Bel-Air to the Hollywood Hills”
- Sylvie Dao, Dale Douk, Eric Gumerlock, Stephanie Hoekstra, David Mori, Chay Tang, and Sarah Young (B.S. practicum project for National Park Service) 2010
“Rodent control methods and their implications for urban carnivores in the San Fernando Valley, Los Angeles County, California, USA”
- Anna Bugayong, Joshua Lazarus, Shahir Masri, Christine Nguyen, Lucas Salazar, and Adam Taheri (B.S. practicum project for Baldwin Hills Conservancy) 2009
“Habitat edges in the Baldwin Hills: effects on bird distribution and California coastal sage scrub”

Graduate Committees Chaired

- Ricardo Montijo, Geographic Information Science and Technology, M.S. 2017
“Predicting electrocution risk from overhead powerlines for three California bird species: Golden Eagle, Common Raven, and Turkey Vulture”
- William Winters, Geographic Information Science and Technology, M.S. 2015
“Identifying areas of high risk for avian mortality by performing a least accumulative cost analysis”
- Giles Kingsley, Geographic Information Science and Technology, M.S. 2015
“Distribution and correlates of feral cat trapping permits in Los Angeles, California”
- Caitlan Dowling, Geographic Information Science and Technology, M.S. 2015
“Using Maxent modeling to predict habitat of Mountain Pine Beetle in response to climate change”
- James Pollock, Geographic Information Science and Technology, M.S. 2015
“A Maxent-based model for identifying local-scale tree species richness patch boundaries in the Lake Tahoe Basin of California and Nevada”
- Samuel Price, Geographic Information Science and Technology, M.S. 2015
“Distribution of Sonoran Pronghorn (*Antilocapra americana sonoriensis*) on an active Air Force tactical range”
- Oghenemine Metitiri, Geographic Information Science and Technology, M.S. 2014
“Use of GIS for analysis of community health worker patient registries from Chongwe District, a rural, low-resource setting, in Lusaka Province, Zambia”
- Christopher Beattie, Geographic Information Science and Technology, M.S. 2014
“3D visualization models as a tool for reconstructing the historical landscape of the Ballona Watershed”
- David Mullis, Geographic Information Science and Technology, M.S. 2014
“Using Landsat and a Bayesian hard classifier to study forest change in the Salmon Creek Watershed area from 1972–2013”

Benito Lo, Geographic Information Science and Technology, M.S. “Development of a vegetation map accuracy assessment simulation on ArcGIS”	2014
Bowen Qi, Landscape Architecture, M.L.Arch. “Regeneration of Los Angeles harbor: new access to the waterfront”	2014
Gongzou Zhao, Landscape Architecture, M.L.Arch. “Ecological landscape design in the process of Chinese urban development”	2014
Rachel Klein, Landscape Architecture, M.L.Arch. “The San Pedro Wild”	2014
Davis, Austin V., Geographic Information Science and Technology, M.S. “Testing LANDIS-II to stochastically model spatially abstract vegetation trends in the contiguous United States”	2013
Bissell, Matthew, Geographic Information Science and Technology, M.S. “Using volunteered geographic information to model blue whale foraging habitat, southern California Bight”	2013
Joshua Benton, Geographic Information Science and Technology, M.S. “An analysis of the North Rainier Elk Herd Area, Washington: change detection and habitat modeling with remote sensing and GIS”	2013
Caroline Jablonicky, Geographic Information Science and Technology, M.S. “Spatial distribution of the Nile crocodile (<i>Crocodylus niloticus</i>) in the Mariarano River system, Northwestern Madagascar”	2013
Cate Rilla, Landscape Architecture, M.L.Arch. “School garden design as catalyst for environmental education and community engagement: Los Angeles Unified School District case studies”	2013
James Lively, Landscape Architecture, M.L.Arch. “Valuable places of wildness in Los Angeles: the Crown Coach brownfield”	2012
Russell Abbott, Geographic Information Science and Technology, M.S. “Investigation and analysis of land use/tree cover in Riverside, California”	2012
Su Jin Lee, Geography, Ph.D. (co-chair) “Effects of municipal policies and home modifications on green cover in Los Angeles County”	2012
Christopher Arntz, Landscape Architecture, M.L.Arch. “Eco-feedback: addressing Santa Monica’s coastal water quality through hybrid design interventions”	2012
Brian Kearns, Geographic Information Science and Technology, M.S. “Is the likelihood of waterfowl presence greater on conserved lands?”	2012

Graduate Committees Served

Christopher P. Morrow, Civil and Environmental Engineering, Ph.D. (dissertation committee)	~2018
Steven J. Warner, Geographic Information Science and Technology, M.S. (thesis committee)	~2018
Carrie Stevens, Geographic Information Science and Technology, M.S. (thesis committee)	2017
Dennis Chow, Building Science, M.B.S. (thesis committee)	2016
Edna Catumbela, Building Science, M.B.S. (thesis committee)	2016
Hildemar Cruz, Geographic Information Science and Technology, M.S. (thesis committee)	2016
Brittany Moffett, Building Science, M.B.S. (thesis committee)	2015
Valerie Anderson, Geographic Information Science and Technology, M.S. (thesis committee)	2015

Susan Valot, M.A., Specialized Journalism (thesis committee)	2015
Mark Dustin, Geographic Information Science and Technology, M.S. (thesis committee)	2015
Zhaoheng Cheng, Landscape Architecture, M.L.Arch. (DDR committee)	2015
Andrew Thomason, Geographic Information Science and Technology, M.S. (thesis committee)	2015
Charles Hanley, Geographic Information Science and Technology, M.S. (thesis committee)	2015
Ryan Reeves, Geographic Information Science and Technology, M.S. (thesis committee)	2015
Jonathan Froines, Landscape Architecture, M.L.Arch. (DDR committee)	2014
Andrew Isner, Geographic Information Science and Technology, M.S. (thesis committee)	2014
Kathryn Metivier, Geographic Information Science and Technology, M.S. (thesis committee)	2014
Kristen Franz, Landscape Architecture, M.L.Arch. (DDR committee)	2014
Zhuohan Yu, Landscape Architecture, M.L.Arch. (DDR committee)	2014
Leigha DelBusso, Landscape Architecture, M.L.Arch. (DDR committee)	2014
Prell, Adam T., Geographic Information Science and Technology, M.S. (thesis committee)	2013
Lily Kerrigan, Landscape Architecture, M.L.Arch. (DDR committee)	2013
Janet Kiyoi, Landscape Architecture, M.L.Arch. (DDR committee)	2013
Justin Eddings, Geographic Information Science and Technology, M.S. (thesis committee)	2012
Rachel Miller, Geographic Information Science and Technology, M.S. (thesis committee)	2012
Jingni Zhang, Landscape Architecture, M.L.Arch. (DDR committee)	2012
Ross Woodley, Landscape Architecture, M.L.Arch. (DDR committee)	2012
Brice Cameron Burkett, Geographic Information Science and Technology, M.S. (thesis committee)	2011
Jingbo Yang, Landscape Architecture, M.L.Arch., (DDR committee)	2011
Bohua Xu, Landscape Architecture, M.L.Arch., (DDR committee)	2011
Xiaolu Tang, Landscape Architecture, M.L.Arch., (DDR committee)	2011
Thao Thi Minh Nguyen, Geography, Ph.D. (dissertation committee)	2011
Teri Mooney, Geographic Information Science and Technology, M.S. (thesis committee)	2010
Lauren M. Whaley, Specialized Journalism (science emphasis), M.A. (thesis committee)	2010
Xinyi Liao, Landscape Architecture, M.L.Arch. (thesis committee)	2010
Ting Wang, Landscape Architecture, M.L.Arch. (thesis committee)	2010
Mona Seymour, Geography, Ph.D. (dissertation committee)	2010
Iris Tsai, Landscape Architecture, M.L.Arch. (DDR committee)	2010

I. SERVICE

Professional

Outdoor Environmental Lighting Committee, Illuminating Engineering Society, 2015–present

Member, Dark Skies Advisory Group, Cities and Protected Areas Specialist Group, World Commission on Protected Areas, International Union for Conservation of Nature (IUCN), 2008–present

Cooper Ornithological Society, Conservation Resolutions Committee, 2012–2015

Member, Coalition for High Performance Schools, National Technical Committee, Site and Water Subcommittee, 2012–2013 (wrote performance criteria for light pollution and native planting)

Judge, Ph.D. Student Paper Competition, Biogeography Specialty Group, Association of American Geographers Annual Meeting, March 26, 2009

University

Chair, Research and Creative Work Task Force, School of Architecture, 2017–2018

Human Resources Committee, School of Architecture, 2015–2017 (Secretary, 2016–2017)
Sustainability Steering Committee (campuswide), University of Southern California, 2009–2018
USC Trustee Scholarship Explore Dinner, February 2016
Water Conservation Task Force (campuswide), University of Southern California, 2014–2015
Spatial Sciences Institute Post-doctoral Scholar Selection Committee, 2015
USC Esri Development Center Student of the Year Selection Committee, 2015
Non-Tenure Track Faculty Promotion Committee (Natural Sciences), Dornsife College of Letters, Arts and Sciences, University of Southern California, 2014
Environmental Science B.S. Advisory Committee, UCLA Institute of the Environment and Sustainability, 2011–2014
Faculty Evaluation Committee, USC Spatial Sciences Institute, Fall 2011
Faculty Hiring Committee, USC Department of Geography/GIS Research Laboratory, 2010
Academic Senate Committee on Non-Tenure Track Faculty Affairs, University of Southern California, 2009–2010
Non-Tenure Track Merit Review Committee, Department of Geography, University of Southern California, 2008–2009
Graduate Student Association Representative, UCLA Academic Senate Council on Planning and Budget, 1996–1999
Member, Graduate Affairs Committee, UCLA Department of Geography, 1995–1997
Member, Instructional Technology Committee, UCLA Department of Geography, 1993–1995

Government

Open Space Representative, Bel Air-Beverly Crest Neighborhood Council, City of Los Angeles, 2016–present
Environmental Review Board Member, County of Los Angeles (appointed by Los Angeles County Board of Supervisors), 1997–present (first elected chair, 2017)
President, Bel Air-Beverly Crest Neighborhood Council, City of Los Angeles, 2015–2016
Santa Monica Mountains Conservancy Representative, Bel Air-Beverly Crest Neighborhood Council, City of Los Angeles, 2013–2016
Member, Science Review Team, Carrizo Plain National Monument, U.S. Bureau of Land Management, 2007
Member, Scientific Review and Advisory Panel, Puente Hills Landfill Native Habitat Preservation Authority Resource Management Plan, 2005
Independent Scientific Advisor (Quino Checkerspot Butterfly), County of San Diego, 2002–2004
Baldwin Hills State Park Citizens Advisory Committee, California State Parks, 2002
Member, Recovery Team (Technical Subteam), Quino Checkerspot Butterfly, U.S. Fish and Wildlife Service, 1999–2001
Member, Recovery Team, El Segundo Blue Butterfly, U.S. Fish and Wildlife Service, 1997–1998

Editorships

Guest Editor, *Avian Conservation and Ecology*, Special Issue: Quantifying Incidental Take of Birds in Canada, 2012–2013

ad hoc Subject Matter Editor, *Ecosphere*, 2010

Managing Editor, *Journal of Research on the Lepidoptera*, 1997–1999

Editorial Boards

Academic Editor, *PLoS ONE*, 2014–present

Editorial Board, *Avian Conservation and Ecology*, 2012–present

Journal Reviews

2018: *Journal of Experimental Zoology A*

2017: *Landscape and Urban Planning*, *Global Change Biology* (2), *Ecology and Evolution*, *Journal of Applied Ecology*, *Ecology and Evolution*, *Journal of Quantitative Spectroscopy and Radiative Transfer*, *Moravian Geographical Reports*, *Current Biology*, *Avian Conservation and Ecology*

2016: *Science*, *Biological Conservation*, *Journal of Applied Ecology*, *Animal Behaviour*

2015: *Animal Behaviour*, *Urban Forestry and Urban Greening*, *Animal Conservation* (2), *Biological Conservation*

2014: *Journal of Insect Conservation*, *Environmental Conservation*, *PLoS ONE*, *Behavioral Ecology*, *Ecological Entomology*, *Landscape Ecology*, *Mammalian Biology*, *Philosophical Transactions of the Royal Society B*, *Science of the Total Environment*

2013: *Proceedings of the Royal Society B* (2), *Biology Letters*, *Conservation Biology*, *PLoS ONE* (3), *Endangered Species Research*, *Fundamental and Applied Limnology*, *Wilson Journal of Ornithology*

2012: *Ecology Letters*, *Conservation Letters*, *Leukos*, *Biological Conservation* (2), *International Journal of Environmental Science*, *Ornis Norvegica*, *Environmental Management*, *Ecosystem Services*, *Wilson Journal of Ornithology*, *Ecological Applications*, *Journal of Insect Conservation*, *Nature Communications*, *Journal of Plankton Research*

2011: *Society & Natural Resources*, *Biological Conservation* (3), *Restoration Ecology*, *Land Use Policy*, *Urban Ecology*, *Journal of Applied Geography*, *Environmental Management*, *Wilson Journal of Ornithology*, *Ecology Letters*, *Wildlife Society Bulletin*

2010: *Conservation Biology*, *Ecology and Society*, *Auk*, *Wildlife Research*, *Environmental Health Perspectives*, *Animal Conservation*, *Journal of Zoology*, *Journal of Insect Conservation*, *Insect Conservation and Diversity*, *Landscape and Urban Planning*, *Current Biology*

2009: *Gene*, *Environmental Entomology*, *Environmental Engineering* (CRC Press), *Waterbirds*, *Marine Ecology Progress Series*, *Conservation Biology*

2008: *Frontiers in Ecology and the Environment*, *Environmental Health Perspectives* (2), *Restoration Ecology*, *Biological Conservation*, *Transactions in GIS*

Pre-2008: *Environmental Management*, *Journal of Research on the Lepidoptera*, *Journal of Tropical Forest Science*, *Land Degradation and Development*, *Landscape and Urban Planning*, *Landscape Research*, *Restoration Ecology*, *Transactions in GIS*, *Biological Conservation*, *Journal of Insect Science*, *American Midland Naturalist*, *Herpetological Conservation*

Grant Reviews

- 2017: National Science Foundation, Ecosystem Studies Program
- 2016: Polish National Science Agency
- 2015: USC Sea Grant
- 2014: National Science Foundation, Division of Integrative Organismal Systems
- 2013: German Research Foundation
- 2012: European Cooperation in Science and Technology (Earth System Science and Environmental Management); National Geographic Society Committee for Research and Exploration; Netherlands Organization for Scientific Research
- 2010: Technology Foundation STW (Netherlands), National Institute for Public Health and the Environment (Netherlands)
- 2009: Vienna Science Fund
- 2005: National Science Foundation, Ecological Biology Cluster; National Fish and Wildlife Foundation
- 2004: National Science Foundation, Ecology Program; National Fish and Wildlife Foundation

Symposia

- Co-organizer, *Historical Ecology 1–2*, Annual Meeting of the Association of American Geographers, Boston, California, April 5, 2017
- Co-organizer, *Historical Ecology 1–4*, Annual Meeting of the Association of American Geographers, San Francisco, California, April 2, 2016
- Organizer, *Artificial Lights and Nature: Challenges for Dusk-to-dawn Conservation Management*, International Congress for Conservation Biology, Edmonton, Alberta, July 3–7, 2010
- Co-Chair, *Ecological Consequences of Artificial Night Lighting*, The Urban Wildlands Group and UCLA Institute of the Environment, 2001–2002
- Member, Conference Steering Committee, UCLA Institute of the Environment, *California's Biodiversity Crisis: The Loss of Nature in an Urbanizing World*, 1998

Sessions Chaired

- Historical Ecology 2*, Annual Meeting of the Association of American Geographers, Boston, California, April 5, 2017
- Historical Ecology 4 – Wildlife, Census, Discussion*, Annual Meeting of the Association of American Geographers, San Francisco, California, April 2, 2016
- Artificial Lights and Nature: Challenges for Dusk-to-dawn Conservation Management*, International Congress for Conservation Biology, Edmonton, Alberta, July 3–7, 2010
- Effects of Wind Farms and Energy Development*, Ornithological Society/American Ornithologists' Union/Society of Canadian Ornithologists 2010 Joint Meeting, San Diego, California, January 2010

Community Service

- Past President, Board of Directors, Los Angeles Audubon Society, 2015–present
- Advisory Board, Smart Outdoor Lighting Alliance, 2015–present

Westwood Neighborhood Greenway Steering Committee, 2013–present
Advisory Board, Zoological Lighting Institute, 2011–present
President, Board of Directors, Los Angeles Audubon Society, 2010–2015
Local Technical Advisory Committee, Ecosystem Values of Watersheds in Southern California, 2008
Co-Chair, Beach Bluffs Restoration Project Steering Committee, 2003–2006
Member, Advisory Council, Yosemite Restoration Trust, 1999–2002
Newsletter Layout, Endangered Habitats League, 1998–2002
Editor, *Western Tanager*, newsletter of the Los Angeles Audubon Society, 1997
Vice President, Board of Directors, Los Angeles Audubon Society, 1995–1997
Coordinator, Los Angeles Audubon Society Birdathon, 1996 (recognized by National Audubon Society, “Most Money Raised by a Rookie,” September-October issue of *Audubon* magazine)

Consultantships

In the Matter of the Application of San Diego Gas & Electric Company (U 902-E) for a Certificate of Public Convenience and Necessity for the Sunrise Powerlink Transmission Project Application 06-08-010 (Filed August 4, 2006). Prepared direct and rebuttal testimony on project’s biological impacts on behalf of the Center for Biological Diversity and the Sierra Club (March 12, 2008). Cross-examined by San Diego Gas & Electric (April 9, 2008).

J. SOCIETY MEMBERSHIPS

Association of American Geographers, 1996–present
Ecological Society of America, 2001–present
Society for Conservation Biology, 2009–present
The Wildlife Society, 2010–present
Society for Conservation GIS, 2016–present
Cooper Ornithological Society, 2010–2016

K. PHOTOGRAPHY

Photographs published by *Los Angeles Daily News*, *Turf Magazine*, *Wildflower Magazine*, Associated Press, Ecological Society of America website (rotating homepage banner photo), LA Observed, Isla Earth Radio website, *Weekly Reader*, *Endangered Species Update*, *Seasons of Flight* (cover photo for a novel by Manjushree Thapa, Penguin India), *Endangered Earth* (Center for Biological Diversity), Evan-Moor Publishing