



Deanne Y. DiPietro

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Deanne DiPietro is a geographer with over 25 years of experience in conservation, science communications, information technology, and climate change. She holds a B.S. in Botany and M.A. in Geography from UC Davis. As Senior Science Coordinator at Conservation Biology Institute, Ms. DiPietro promotes a scientific approach to conservation planning by managing projects and diverse teams that combine specialized scientific expertise, spatial and remote sensing analyses, custom online tools, and facilitation support. Areas of expertise include: co-production of science-based conservation solutions, stakeholder engagement and partnership-building, digital library and online tool development, and science writing and communications. She has worked with environmental organizations at the national, state, and local levels, with a focus on making science accessible to managers and decision-makers. Ms. DiPietro has been instrumental in developing state and national-level data access websites, including the California Environmental Resource Evaluation System (CERES), the state's first environmental data catalog; the California Climate Commons, an online library of climate change science and data for conservation practitioners; and the National Landscape Conservation Cooperative's data portal on Sciencebase. Ms. DiPietro is located in the North San Francisco Bay Area.

EDUCATION

2001 M.A. Geography, University of California at Davis

1984 B.S. Botany, University of California at Davis

EMPLOYMENT HISTORY

2017 - present Senior Science Coordinator, Conservation Biology Institute

2012 - 2017 Data Manager, California Landscape Conservation Cooperative

2004 - 2012 Research & Information Services Program Manager, Sonoma Ecology
Center

2002 - 2004 Research Analyst, Sonoma State University

2000 - 2002 Research Analyst, Information Center for the Environment, UC Davis
1994 - 2000 Outreach Coordinator, California Natural Resources Agency CERES
Program

PROFESSIONAL SKILLS

Management of projects staffed by diverse teams delivering science, tools, modeling, and spatial analysis for conservation decision-making. Written and multi-media communications interpreting science and methods, case studies, and instruction in use of tools and results. Stakeholder outreach and engagement, coordination of multi-organizational partner teams. Development of grant proposals and science-management project partnerships.

SELECT PROJECT EXPERIENCE

Projects completed or ongoing at CBI:

Paradise Nature-Based Fire Resilience

<https://consbio.org/products/projects/protecting-communities-from-wildfire-with-progressive-land-use-planning>

In this project with The Nature Conservancy and Paradise Recreation and Park District CBI explored community design principles to increase the community's resilience to fire and climate change, enhance the safety and well-being of its residents, and improve stewardship of the surrounding natural lands. The team used GIS to model and analyze "Wildfire Risk Reduction Buffers" - belts of land managed for low fire-risk - between the structures and the wildlands to reduce exposure of homes to wildfire ignitions.

Santa Monica Mountains Woolsey Fire Recovery and Adaptation Program

<https://consbio.org/products/projects/santa-monica-mtns-fire-resilience>

A partnership with the Resource Conservation District of the Santa Monica Mountains, the Santa Monica Mountains Conservancy, and California State Parks to work with the Santa Monica Mountains Fire Safe Alliance, a formal collaboration of land management agencies, county fire departments, city and county governments, conservation organizations, and community and homeowner groups, to improve wildfire outcomes and increase ecosystem resilience.

Klamath Basin Ecological Connectivity Analysis and Fire Risk Assessment

<https://consbio.org/products/projects/klamath-basin-ecological-connectivity>

Partnership effort with the U.S. Fish & Wildlife Service and U.S. Forest Service to identify locations important for the Pacific marten (*Martes caurina*) and its close relative, the Pacific fisher (*Pekania pennanti*) in the Klamath River Basin region.

Southern California Wetlands Recovery Project Marsh Adaptation Planning Tool

<http://scwrp.databasin.org>

The SCWRP Marsh Adaptation Planning Tool is a website that provides easy access to high-quality geospatial datasets, maps, and information needed for facilitating acquisition and restoration of rivers, streams, and wetlands in coastal Southern California.

Southern Sierra Nevada Fisher Conservation Assessment and Strategy

<https://consbio.org/products/projects/southern-sn-fisher-conservation-strategy>

The Southern Sierra Nevada Fisher Conservation Assessment and Strategy is a multi-agency effort to conserve and recover an isolated and imperiled population of Pacific fisher (*Pekania pennanti*) in the southern Sierra Nevada, California.

Stephens' Kangaroo Rat Habitat Suitability Modeling Project and Stephens' Kangaroo Rat Management and Monitoring Plan

<https://consbio.org/products/projects/stephens-kangaroo-rat-range-wide-habitat-management-and-monitoring-plan-project>

In a partnership effort with Riverside County Habitat Conservation Agency to help protect the endangered Stephens' kangaroo rat (SKR, *Dipodomys stephensi*), Conservation Biology Institute used remotely-sensed land cover data to model potential Stephens' kangaroo rat habitat in Western Riverside and San Diego Counties, the species last stronghold. CBI is now coordinating a multi-preserve effort to co-produce an SKR Conservation Strategy that will identify priorities and management actions and standardize monitoring across the species' range.

The California Climate Console

<http://climateconsole.org/>

The Climate Console is an online application for exploring maps of climate change projections, simulated impacts, and other model results for any region in California. It supports public understanding of the effects of climate change in California and land managers planning for the future.

RePlan - Regional Conservation and Development Tool

<http://replan-tool.org/>

The RePlan online tool synthesizes the latest biological and ecological data to help identify optimal locations to implement specific conservation and development goals.

Non-CBI Project Experience:

Data Manager, California Landscape Conservation Cooperative

Developed the California Climate Commons (<http://climate.calcommons.org>), a digital library of climate change science relevant to conservation in California and the science delivery platform for the California Landscape Conservation Cooperative. Authored and co-authored numerous climate change impact summaries and articles interpreting climate science for conservation managers and the public. Assisted in stakeholder-driven landscape conservation planning efforts and science-management webinars and workshops.

Research and Information Services Program Manager, Sonoma Ecology Center

Managed a diverse informatics team and oversaw projects in watershed science, GIS, and historical ecology. Developed grant proposals and project scopes, hired and supervised staff, managed program budgets, and cultivated regional partnerships.

Research Analyst, Sudden Oak Death Project, Sonoma State University

Oversaw field data collection effort for a research project studying the spread of *Phytophthora ramorum*, the pathogen known to cause Sudden Oak Death. Installed and sampled long-term vegetation study plots, developed a custom database management system, planned and led field workdays, and coordinated with researchers at UC Davis and UC Berkeley.

Outreach Coordinator, CERES Program, The California Natural Resources Agency

Co-developed the CERES California Environmental Information Catalog, the state government's first online environmental data library and official National Spatial Data Infrastructure node. Coordinated with other digital library initiatives across the state and nation, including the FGDC Metadata Working Group, The Open GIS Consortium, and the UC Berkeley and Alexandria Digital Libraries.

SELECT PUBLICATIONS

Spencer, W., J. Brice, D. DiPietro, J. Gallo, M. Reilly, H. Romsos. 2019. Modeling the Potential for Large High-Severity Fires in the Klamath Basin Region of California and Oregon and Their Potential Impacts on Marten and Fisher. Conservation Biology Institute.

https://d2k78bk4kdhbpr.cloudfront.net/media/reports/files/CBI_Klamath_Fire_Modeling_Final_Report.pdf

- Spencer, W., J. Brice, D. DiPietro, J. Gallo, M. Reilly, H. Romsos. 2019. Habitat Connectivity for Fishers and Martens in the Klamath Basin Region of California and Oregon. Conservation Biology Institute.
<https://doi.org/10.6084/m9.figshare.8411909>
- Abrahms, B., D. DiPietro, A. Graffis, and A. Hollander. 2017. Managing Biodiversity under Climate Change: Challenges, Frameworks, and Tools for Adaptation. Biodiversity and Conservation. doi:10.1007/s10531-017-1362-4. Available at <http://rdcu.be/rQq6>.
- Micheli, E., and D. DiPietro. 2013. Biodiversity Vital Signs; a coupled Ecosystem-Climate Monitoring Framework for Sonoma County. North Bay Climate Adaptation Initiative, Sonoma County, CA. Available at <http://climate.calcommons.org/bib/biodiversity-vital-signs>.
- Cornwall, C., S. Moore, D. DiPietro, S. Veloz, L. Micheli, L. Casey, M. Mersich. 2014. Climate Ready Sonoma County: Climate Hazards and Vulnerabilities. Prepared in support of Climate Action 2020, Sonoma County Regional Climate Protection Authority. Santa Rosa, California. Available at <http://scta.ca.gov/pdf/Climate Ready Hazards Vulnerabilities.pdf>
- Cornwall, C., D. DiPietro, C. Farrar, F. Knapczyk, R. Hoenicke, R. Lawton, E. Micheli, K. Ridolfi, P. Vorster, A. Young, and R. Zlomke. 2010. Sonoma Creek and Napa River Watershed Health Scorecards. Sonoma Ecology Center. Sonoma, CA. Available at <https://knowledge.sonomacreek.net/scorecard>.
- Underwood, E., S. Ustin, and D. DiPietro. 2003. Mapping Nonnative Plants Using Hyperspectral Imagery. Remote Sensing of Environment 86 (2): 150–161.