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Deanne DiPietro is a geographer and biologist with over 25 years of experience applying science and information technology to conservation planning. Deanne manages projects and multi-disciplinary teams to deliver practical solutions for a wide range of issues from endangered species recovery to community wildfire resilience. Her expertise includes data management, decision-support tool design, stakeholder engagement, digital libraries, and science communications. Deanne's specialty is making science and data accessible to those who need it to tackle the protection of natural systems while promoting human community resilience in a time of rapid change.

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 and GIS Program Manager, Sonoma Ecology Center
- 2002 - 2004 Field Operations Manager, Sudden Oak Death Project, Sonoma State University
- 2000 - 2002 Research Analyst, Information Center for the Environment, UC Davis
- 1994 - 2000 Technical Projects 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.

RECENT PROJECT EXPERIENCE

Community Wildfire Resilience

Sonoma County Wildfire Resilience Planner

<https://sonoma.resilienceplanner.org/>

An online decision support tool for prioritizing locations where the reduction of fuels will best protect lives and property, community infrastructure, ecosystem services, and biodiversity.

Role: Project lead, online tool design, partner coordination.

Clients and partners: Sonoma Water, Pepperwood Preserve, Tukman Geospatial, and community stakeholders.

Paradise Nature-Based Fire Resilience Project

<https://consbio.org/reports/paradise-nature-based-fire-resilience-project/>

Explored design wildfire risk-reduction buffers and management actions to increase the Paradise community's resilience to wildfire, enhance the safety and well-being of its residents, and improve stewardship of the surrounding natural lands.

Role: Project lead, analysis design, stakeholder communications, science writing.

Clients and partners: The Nature Conservancy and Paradise Recreation and Park District.

Santa Monica Mountains Woolsey Fire Recovery and Adaptation Program

<https://consbio.org/projects/santa-monica-mountains-woolsey-fire-recovery-and-adaptation-program/>

An effort to improve community and ecosystem wildfire resilience through community outreach, natural lands restoration, and research.

Role: Project management, multi-agency coordination, science communications.

Clients and partners: Resource Conservation District of the Santa Monica Mountains, the Santa Monica Mountains Conservancy, and California State Parks.

RECENT PROJECT EXPERIENCE, cont'd

Endangered Species Conservation

[Stephens' Kangaroo Rat Habitat Suitability Modeling Project and Stephens' Kangaroo Rat Management and Monitoring Plan](#)

An innovative, multi-agency effort to protect the endangered Stephens' kangaroo rat (*Dipodomys stephensii*) across its remaining range in Southern California by implementing the [Stephens' Kangaroo Rat Rangewide Management and Monitoring Plan](#).

Role: Project management, multi-agency coordination, science writing, long-term data management system design, and field monitoring support.

Clients and partners: Riverside County Habitat Conservation Agency, US Fish & Wildlife Service, Bureau of Land Management, Dept. of Defense, and numerous land managers across two counties.

[Habitat Connectivity for Fishers & Martens in the Klamath Basin Region](#)

A spatial modeling effort 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.

Role: Project management, multi-agency coordination, science writing.

Clients and partners: U.S. Fish & Wildlife Service and U.S. Forest Service

[Southern Sierra Nevada Fisher Conservation Assessment and Strategy](#)

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

Role: Project management, multi-agency coordination, science writing.

Clients and partners: Fisher Inter-agency Leadership Team: Sierra Nevada Conservancy, USDA Forest Service, National Park Service, US Fish and Wildlife Service, and California Department of Fish and Wildlife.

Forest Conservation

[Sierra Nevada Forest Resilience Decision-Support System](#)

CBI is working with land managers to develop a resilience modeling and decision-support system (DSS) for planning management actions in the southern Sierra Nevada with a focus on protecting giant sequoias from impacts of drought and severe wildfire.

Role: Project management, multi-agency stakeholder coordination, science writing.

Clients and partners: US Forest Service, Sierra Nevada Conservancy, Sequoia-Kings Canyon National Park, Save The Redwoods League, Great basin Institute, American Forests.

PUBLICATIONS AND REPORTS

- Byrd, K. B., E. Matchett, C. Mengelt, T. Wilson, D. DiPietro, M. Moritsch, E. Conlisk, S. Veloz, M. L. Casazza, and M. E. Reiter. 2023. Knowledge coproduction on the impact of decisions for waterbird habitat in a changing climate. *Conservation biology: the journal of the Society for Conservation Biology*.
<http://doi.org/10.1111/cobi.14089>.
- 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>.
- 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
- 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., 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.