



Spring Strahm

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Spring is a conservation ecologist and data analyst with over 15 years of experience in research, data analysis, habitat restoration, ecological monitoring and management of conserved lands in southern California. She has participated in conservation practice as a scientist, land-manager, and consultant, interfacing with NGOs, jurisdictions and government agencies regularly in these capacities. She has been involved in a number of research programs aimed at advancing the use of science in adaptive management and monitoring plans for several Natural Community Conservation Planning or associated programs. In this capacity she trained and managed field crews, performed field work, helped develop and implement novel data analysis strategies and provided practical interpretations of statistical results for end users. Ms. Strahm developed a conceptual model for the federally threatened and state endangered plant, *Deinandra conjugens* and facilitated the development of conceptual model for the coastal sage scrub vegetation community with representatives from NGO's, academic institutions, local jurisdictions and state and federal agencies. Ms. Strahm was also involved in advancing the knowledge base about the rare Hermes copper butterfly (*Lycena hermes*) which is now a candidate for federal listing.

EDUCATION

2005-Master of Science, San Diego State University, San Diego, CA. Biology, Ecology Area

2002-Bachelor of Science, San Diego State University, San Diego, CA. Biology (Ecology)

EMPLOYMENT HISTORY

2015 (Spring Semester) **Instructor**, (Plant Ecology) San Diego State University, Biology Department.

2010(ongoing) **Senior Program Scientist and Analyst**, Institute for Ecological Monitoring and Management.

2007-2010 Project Scientist and Data Analyst, MSCP/NCCP Monitoring Design Project, San Diego State University.

2005-2008 Reserve Manager, SDSU Field Station Programs, Santa Margarita Ecological Reserve



2005-2006 Restoration Ecologist and Natural Resource Specialist, AMEC Earth and Environmental

2002-2004 Lead TA/TA for Biological Data Analysis, San Diego State University

1998-2002, 2005 Soil Ecology and Restoration Group, San Diego State University

SELECT PROJECT EXPERIENCE

Harbison Dun Skipper Surveys. Identification of potential habitat using historical sightings, and host plant distribution data from electronic databases. Host plant surveys. Surveys for larval hibernacula and flying adults in riparian strips. Coordination/supervision of field crews.

Burrowing Owl Habitat Restoration and Enhancement Experiment, Exploring Burrowing Owl habitat preferences. Includes weed abatement, soil manipulation, and translocation of ground squirrels to provide different levels of habitat enhancement. Experimental design, data collection, database creation and archiving, exploratory data analysis and analysis of covariance.

Dahlem Stakeholder Conference for the San Diego MSCP, Organized a structure workshop focused on large-scale, cross-jurisdiction problem solving in the San Diego Multiple Species Conservation Program. Responsibilities included identifying, contacting and coordination with representatives from agencies, jurisdictions, non-governmental organizations and academic institutions. Literature review of relevant peer-reviewed articles communicated to conference attendees via annotated bibliography. Topics included: management and monitoring across multiple spatial scales and jurisdictional boundaries, prioritization of community wide and specific monitoring and solving MSCP wide governance problems.

Oak Woodland Health Assessment, Assessing recruitment and death rates of oaks in Orange County NCCP lands. Included identifying and recording oak pathogens and understory habitat. Conceptual modeling, study design, supervision of field crew, database creation and archiving, exploratory data analysis, multiple regression, logistic regression, chi square analysis.

MSCP Monitoring Design Project, Identifying and quantifying the trade-off between precision and cost of vegetation monitoring techniques in San Diego, Orange and Riverside Counties. Study design, supervision of field crew, database creation and archiving, exploratory data analysis, multiple regression, variance decomposition, power analysis, time-series and trend analysis.

Master Thesis, Studying the spatial pattern of invaded Coastal Sage Scrub before and after fire, with an emphasis on soil nutrients and the role burn severity plays on reestablishment. Study design, conceptual modeling, repeated measures ANOVA, t-



testing and spatial autocorrelation. Rancho Jamul Biological Reserve, San Diego and Shipley-Skinner Reserve Riverside.