

David Miceli, M.S.
Biologist

Professional Experience

Mr. Miceli is a Biologist with over ten years of professional experience in the Great Basin and surrounding region. He has held positions at the Bureau of Land Management, Nevada Department of Wildlife, Desert Research Institute, The Great Basin Institute, and numerous environmental consulting firms. Mr. Miceli's areas of expertise include geographic information systems (GIS), data management, biological compliance, habitat assessment, and desert tortoise biology. The majority of his environmental consulting experience has been geared toward implementation of avoidance and minimization measures for federal and state listed species in accordance with the National Environmental Protection Act (NEPA), California Environmental Quality Act (CEQA), and the Endangered Species Act (ESA). Mr. Miceli's extensive field experience and data management background provide a well-rounded skillset that bridges the gap between field and office, ensuring efficient and accurate data collection, analysis, and reporting.

Education

- M.S., Geography, University of Nevada, Reno, Nevada, 2019
- B.S., Environmental Science, Loyola University Chicago, Illinois, 2008

Publications

Vuono, D. C., Read, R. W., Hemp, J., Sullivan, B. W., Arnone, J. A., Neveux, I., Blank, R. R., Loney, E., **Miceli, D.**, Winkler, M. H., Chakraborty, R., Stahl, D. A., ... Grzymski, J. J. (2019). Resource Concentration Modulates the Fate of Dissimilated Nitrogen in a Dual-Pathway Actinobacterium. *Frontiers in microbiology*, 10, 3. doi:10.3389/fmicb.2019.00003

Certifications/Training

- MSHA Part 48 Mine Safety Training (Dave Coelho)
- Plants of the Great Basin (Jerry Thiehm, UNR)
- Introduction to Desert Tortoise Surveying, Monitoring, and Handling Techniques (Desert Tortoise Council)

Work Experience

- **Ormat Nevada, Tungsten Mountain Solar Project, Churchill County, NV** – *Biologist* responsible for conducting post-construction bird and bat mortality surveys. Conducted standardized transect surveys to detect carcasses according to BLM approved protocols. Closely followed Ormat safety procedures for working within geothermal and solar facilities.
- **Avangrid Renewables, LLC, Manzana Wind Power Project, Tehachapi, CA** – *Cartographer* tasked with creating maps depicting monthly golden eagle (*Aquila chrysaetos*) and California condor (*Gymnogyps californianus*) flight paths and annual perch locations in the vicinity of the Manzana wind power project. Also created heatmaps depicting annual frequency of low altitude flight paths.
- **8 Mile Farms, LLC, Smith Creek Desert Land Entry Project, Smith Creek Valley, NV** – *Wildlife biologist* responsible for conducting a baseline biological survey of wildlife and associated

sign. Developed species lists and performed habitat assessments to determine potential for special status species to occur in the project area.

- **Desert Research Institute, Healthy NV Project, Reno, NV** – *GIS analyst* responsible for providing spatial big data support to ongoing projects in the Healthy NV Project. Cleaned and geocoded address data in large datasets (1.5 million+ records) using SAS, Python, and ArcGIS. Conducted analyses, authored maps, and developed map animations featured in high-profile events and presentations.
- **The Great Basin Institute (GBI), Bureau of Land Management (BLM) Assessment, Inventory, and Monitoring (AIM) Program, Reno, NV** – *Data specialist* supporting the successful implementation of AIM program objectives. Conducted extensive data QA/QC to ensure accurate field data collection and continuity between field crews. Maintained tools for database management, data analysis, and report generation using MS Access, Python, and SQLite. Also authored, updated, and edited numerous protocol documents to improve continuity of AIM program management at GBI.
- **Nevada Department of Wildlife (NDOW), Vegetation and Habitat Analysis (VHA) program, Throughout Northern Nevada** – *Field Crew Leader* responsible for ensuring safe, accurate and efficient field data collection for the NDOW VHA program. Sampled vegetation structure and composition using AIM program methodology, resulting in estimates for foliar cover, canopy gap, plant density, and species richness. Entered and managed field data using Database for Inventory, Management, and Assessment (DIMA), conducted troubleshooting, post processing, and extensive QA/QC of data.
- **Nevada Department of Wildlife (NDOW), VHA program, Reno, NV** *Data Specialist* tasked with analysis of habitat restoration treatments using remote sensing techniques. Classified control plots by vegetation type using satellite imagery, georeferenced photos, and vegetation data. Gathered data that included fire history, slope, aspect, and soil type, and enriched datasets by joining the data using spatial methods.
- **Occidental Petroleum Corporation, Rio Lobo 3D Seismic Oil & Gas Exploration Project, Kettleman Hills, CA** – *Lead Biologist and GIS specialist* responsible for ensuring biological compliance on a challenging, fast-paced, and highly sensitive project. Coordinated team of up to six biologists in a highly fluid, unpredictable, and dynamic work environment, successfully preventing take of special status species or damage to sensitive habitat while ensuring all timelines and project goals were met. Developed a data-driven communication regimen that involved daily provision of biological resource data, enabling contractors to work quickly and efficiently while maintaining full biological compliance.
- **Bayswater E&B, LLC., Coles Levee 3D Seismic Oil & Gas Exploration Project, Kern County, CA**– *Lead Biologist and GIS specialist* tasked with coordinating biological pre-activity surveys, biological compliance monitoring, and post-project cleanup. Conducted GIS analyses and authored numerous maps in support of the permitting process. Worked closely with seismic contractor to provide timely and accurate biological resource data during project activities.
- **E & B Natural Resources, Inc., Cuyama Valley 3D Phase I and II, Cuyama Valley, CA** – *Lead Biologist and GIS specialist* responsible for ensuring biological compliance in a high profile and sensitive seismic oil & gas exploration project occurring within the Carrizo Plain National Monument. Conducted aerial habitat/wildlife surveys by helicopter and led a proactive and

successful impact mitigation strategy for project activities with the potential to cause habitat loss or result in take of special status species.

- **Numerous clients in the Oil & Gas Industry, Protocol-level Blunt-nosed leopard lizard surveys, Central Valley, CA** – *Lead Biologist and GIS specialist* responsible for coordinating protocol-level surveys for the federally endangered Blunt-nosed leopard lizard (*Gambelia sila*). Recruited, trained, and managed field crew of up to 12 biologists, managed survey data, and drafted final reports over the course of several field seasons.
- **Venoco, Inc., Hames Valley 3D Seismic Oil & Gas Exploration Project, Paso Robles, CA** – *Lead Biologist and GIS Specialist* ensuring biological compliance through pre-activity ground surveys, compliance monitoring, and daily environmental education presentations. Worked closely with exploration contractor to ensure success in challenging situations.
- **Occidental Petroleum Corporation, Buena Vista 3D Seismic Oil & Gas Exploration Project, Paso Robles, CA** – *Field Biologist* responsible for conducting post-activity long term habitat damage assessment to determine final mitigation land offset requirements. Collected data in the field and drafted final report for submittal to BLM, resulting in the release of several million dollars of mitigation offset funds.
- **City of Mesquite, Mesquite Regional Park Project, Mesquite, NV** – *Biological technician* responsible for conducting pre-activity presence/absence surveys for desert tortoise (*Gopherus agassizii*), desert tortoise relocation, and compliance monitoring. Personally handled and processed twelve (12) desert tortoises in the presence of an authorized tortoise biologist. Worked independently with client on daily basis to ensure species avoidance during project implementation.
- **Sempra U.S. Gas & Power, Copper Mountain Solar, Boulder City, NV** – *Biological technician* supporting pre-activity presence/absence surveys for desert tortoise (*Gopherus agassizii*). Maintained a high level of professional integrity while working in often harsh and challenging conditions.
- **Bureau of Land Management, Conservation and Land Management Internship Program, Reno, NV** – *Botany Intern* tasked with fulfilling numerous roles in support of the botanist at the BLM Carson City District Office. Performed GIS analyses, carried out native seed collection, conducted rare plant surveys, and performed post-fire ESR, rangeland health, and riparian assessments. Navigated remote backcountry roads throughout northern Nevada on a regular basis with a high regard for safety.
- **Loyola University Chicago, Invasive Cattail Mapping at Illinois Beach State Park, Chicago, IL** – *Research Fellow* tasked with delineating stands of invasive cattail (*Typha spp*) in wetlands along the shores of Lake Michigan. Referenced current and historic aerial imagery to map the temporal spread to inform research projects studying wetland terrestrialization.
- **The National Audubon Society, Habitat Restoration Internship Program, Chicago, IL** – *Restoration technician* responsible for carrying out restoration treatments throughout the Cook County Forest Preserve system in northern Illinois. This involved invasive species abatement through herbicide application, brush cutting, and chainsaw. Felled large trees on a regular basis and excelled at efficient and safe tree removal.