

SAVANNAH K. MILLER

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Education

University of California-Berkeley

B.S. Molecular Environmental Biology, Concentration in Biodiversity, *December 2016*

San Francisco State University

M.S. Interdisciplinary Estuarine and Marine Sciences, *May 2027*

Research Interests

Technical Skills

- Microsoft Office (Excel, Word, PowerPoint); Adobe PDF
- USACE Enterprise AIS (CEFMS II and Army Resident Management System)
- Invertebrate specimen pinning and preparation
- Nestling bird banding and tissue collection
- Insect colony development and maintenance
- Data collection and preparation of behavioral ecology lab and field experiments

Experience

US Army Corps of Engineers

Biological Sciences Environmental Manager/Contracting Officer's Representative (GS-0401-11/02)

Environmental Navigations and Operations Section, San Francisco District, San Francisco, California

January 2023-Present

- Calculated and finalized annual dredging quantities for eight 2022 dredging projects for official reporting of San Francisco's yearly dredging progress to external resource agencies. Prepared a Standard Operating Procedure (SOP) on the reporting effort to act as a teaching aid for future employees.
- Prepared a SOP for Biological Monitoring for Unmanned Aerial Surveys of project sites.
- Successfully participated in a multi-day open ocean survey on a research vessel monitoring impacts and effects of dredge material to the local ecology within the EPA San Francisco Deep Ocean Disposal Site (SF-DODS) from 15-24 October 2023.
- Environmental Manager for multiple dredging and navigation projects in 2023 monitoring for environmental compliance, including Oakland Outer and Inner Harbor Federal Channel, Richmond Inner Harbor Federal Channel, SF Mainship Federal Channel, Petaluma River Federal Channel, Hyde Street Pier, and Debris Dock Replacement.

Project Engineer (GS-0401-11/02)

Construction Branch, San Francisco District, Sausalito, California

June 2022-January 2023

- Primary Contracting Officer Representative (COR) and Project Engineer for two O&M Dredging Navigation Projects in 2022, to accomplish project deliverables on time, within scope, and budget:
 - Sacramento Deep Water Channel (Project awarded at \$5,093,700.00)
 - San Joaquin Deep Water Channel (Project awarded at \$6,012,863.00)
- Writer and collaborator of the final interim Operations and Maintenance Manual for an ecosystem restoration project, Hamilton Wetlands, covering approximately 30 years of construction activity.

Environmental Manager/Construction Representative (GS-0401-07/01, 09/01, 11/01)

Construction Branch, San Francisco District, San Francisco, California

Fall 2019, Fall 2020, Fall 2021

- Performed on-site monitoring of Sacramento and Stockton Deep Water Channel O&M Dredging projects, including environmental compliance to water quality standards and fish entrainment requirements.
- Conducted surveys of Valley Elderberry around construction site to monitor for presence of Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphous*), a federally threatened species.

Biological Sciences Environmental Manager (3 Month Detail) (GS-0401-09/01)

Environmental Services Section, San Francisco District, San Francisco, California

April 2021-July 2021

- Completed Consistency Determinations (San Francisco Bay Conservation and Development Commission) and Environmental Assessments (National Environmental Policy Act) within regional and federal compliance.
- Organized meetings between federal coworkers, non-federal sponsor, and outside government agencies.
- Projects included: Upper Guadalupe Flood Risk Management Project, 1122 Beneficial Dredge Material Pilot Project, and Debris Dock Replacement.

Technical Monitor for Emergency Fire Debris Clean Up Mission (GS-0401-09/01, 11/01)

Construction Branch, San Francisco District, San Francisco, California (Tour of Duty)

Napa/Solano County, California (*February 2021-April 2021*)

Butte/Trinity County, California (*January 2022-February 2022*)

- Team Lead in remote areas, taking steps to ensure mission completeness and employee safety on-site.
- Federal Representative oversight on private properties with both structure debris and hazardous tree removal.

Construction Representative (GS-0401-07/01, 09/01)

Construction Branch, San Francisco District, San Francisco, California (Tour of Duty)

South Pacific Border District, Lukeville, Arizona (*February 2020-June 2020*)

South Pacific Border District, Lukeville, Arizona (*January 2021-January 2021*)

- Monitored construction techniques and testing on site, including placement of concrete foundation, crane safety work onsite, explosives used as an excavation method, and performing construction on a mountain slope.
- Collaborated with environmental managers to track animal behavior around construction activities, including the following species: Horned Lizards (*Phrynosoma platyrhinos sp.*), Gila Monsters (*Heloderma suspectum*), Great Horned Owl (*Bubo virginianus*), and Organ Pipe Cactus (*Stenocereus thurberi*).

US Department of Agriculture

Biological Science Technician (GS-0404-06/01)

Western Regional Research Center, Albany, California

February 2019-September 2019

- Initiated and developed wasp parasitism-host experiments to test efficacy of a release of native wasps to control populations of foreign agricultural invertebrate pest species in blackberry fields.

BioMaAS Inc. Environmental Consulting

On-Call Biologist

San Francisco, California

September 2018-February 2019

- Species Monitored: California Tiger Salamander (CTS), California Red-legged Frog, Dusky Footed Woodrat.
- Excavated burrows to check for sign of listed species (n=~79.5 hours+).
- Handled and measured CTS individuals during night surveys under permitted scientists (n=14).
- Monitored sites for native Woodrat nests within areas of the San Francisco Watershed during plant removal.

US Geological Survey

Biological Science Technician (GS-0404-05/01)

Pacific Islands Ecosystem Research Center, Hawaii Volcanoes National Park, Volcano, Hawaii

June 2017-February 2018

- Surveyed anchialine pools to detect presence or absence of two endangered native species of anchialine shrimp and an endemic native Damselfly species.
- Conducted lab and fieldwork for ecological invertebrate studies of the food supply for native bird and bat species on the Hawaiian Islands, which involved rearing caterpillars in the lab and sorting collected invertebrates to taxonomic group.

Research Experience

University of Arizona

Biological Technician and Field Site Manager

Duckworth Lab, Missoula, Montana

March 2018-August 2018

- As a Biological Technician, took data in three field sites encompassing approximately 70 nest boxes of the results of aggression tests of nesting pairs; and stages of the nest, nestlings, and breeding pair of each nest box.
- As a Field Site Manager, trained an intern in the intensive nest monitoring techniques of the Blue Mountain field site, and maintained the data for the team (field site manager, intern, and bird bander).
- Handled, banded, bled, and measured nestlings in nest boxes monitored under the project ($n > 200+$).

National Science Foundation-Research Experience for Undergraduates (REU) Program Intern

Duckworth Lab, Missoula, Montana

May 2016-July 2016

- Co-managed the Blue Mountain field site of approximately 30 nest boxes, which included keeping record of the stages of the nest, nestlings, and breeding pair of each nest box.
- Performed, observed, and tracked behavioral trials with hormone dosed mealworms to identified Western Bluebird pairs for an ongoing study.
- Handled, banded, bled, and measured nestlings in nest boxes monitored under the project ($n > 100+$).

University of Sussex

Undergraduate Researcher

Hughes Lab and Field Biology Course, Brighton, United Kingdom

July 2015 - August 2015

- Completed an independent research project on the consistency of behavior in Dinosaur Ant (*Dinoponera quadricaps*) colonies.
- Compared wildflower and native grass species diversity using quadrats in endangered chalk grassland habitat and historically grazed habitat to observe if rehabilitation of the area was successful.

University of California-Berkeley

Student Research Assistant

Multiple Locations across California

July 2014-May 2017

Was an active participant of multiple programs and labs on and off campus.

Focus of natural history and behavioral ecology:

- ***Gillespie Lab (Spring 2016-Spring 2017)***
- ***Lacey Lab (Fall 2016)***
- ***Natural History of Vertebrates Field Course IB 104 (Spring 2015 and Spring 2016)***
- ***UC Natural Reserve Field Course (Fall 2015)***
- ***Elias Lab (Spring 2015)***
- ***Essig Museum Lab of Entomology and Kipling Lab (Summer 2014-Winter 2016)***

Presentations and Acknowledgements

A Year in Hawaii: The Projects, The Insects, and The Surprises

EvoLab (Rosemary Gillespie and George Roderick)

University of California-Berkeley

March 9th, 2018

- Presented a summary of my work in various projects as a Biological Science Technician for USGS at Pacific Islands Ecosystem Research Center to a group of academic scientists.

Awards/Recognitions

Steel Order of the de Fleury, Army Engineer Association

- *Annual San Francisco District Award's Ceremony from Construction Branch (June 2022)*

SPN Golden Gate Awardee

- *Sacramento O&M Dredging Quality Assurance (October 2020)*
- *Stockton O&M Dredging Quality Assurance (October 2021)*

SPN Commander's Coin

- *LDP Group Project-Virtual Training Day for SPN District (October 2021)*

Student Scholarship for the Western Section of The Wildlife Society, Reno, NV

- *Awarded full scholarship \$1000 to attend the Western Section's Annual Meeting (February 6-10, 2017)*

Certifications/Memberships

- USACE Leadership Development Program Levels I and II (*October 2020-September 2021*)
- The Wildlife Society Membership (*February 2017*)