

Michael G. Starkey
3646 West St. • Oakland, CA 94608
916.206.8462 • MGStarkey@gmail.com

OBJECTIVE

Employment to Build Upon Skills and Professional Work Experience

PROFESSIONAL EXPERIENCE

November, 2011 – Present: **SAVE THE FROGS, Advisory Committee Chair, Ecologist**

- In this position, scientists, volunteers, and others are rallied together in order to help broaden SAVE THE FROGS' mission of protecting amphibian populations threatened with extinction and promoting a society that appreciates and respects wildlife. Responsible for organizing and managing conservation efforts through public awareness campaigns world-wide. Regularly gives lectures on amphibian conservation at universities, schools, and to public interest groups. Has spoken at University of California at Davis, Humboldt State University, Sacramento State University, Berkeley Community College, the Oakland Zoo, Central Valley Herpetological Society, and more.

Organization: SAVE THE FROGS!, 501(c)(3) Public Charity
303 Potrero Street #51, Santa Cruz, CA 95060 USA
Office: 831-621-6215, Cell: 916-206-8462, starkey@savethefrogs.com

March-October, 2011: **Wildlife Biologist working with Threatened and Endangered Reptile and Amphibian species within the Bay Area of California**

- Hired as a wildlife biologist for an environmental consulting firm. Duties included project management, organization, and implementation, training fellow employee of amphibian species identification and research techniques, data collection, construction monitoring, and trapping for target species at study sites between Chico and the San Francisco Bay Area. Studies involved capture, handling, and identification of T&E species (California Tiger Salamander, California Red-Legged Frog, San Francisco Garter Snake, and Alameda Whipsnake).

Supervisor: Karen Swaim, Consulting Environmental Biologist
S.B.I., 4435 First Street PMB #312, Livermore, CA 94551
925.455.8770 kswaim@swaimbio.com

2006-2008, April 2010-February 2011: **Crew Leader/Field Technician working with threatened Giant Garter Snakes (*Thamnophis gigas*)**

- Led field crews in conducting studies of Giant Garter Snakes in multiple locales in the Central Valley of California. Studies involved capture, handling, and identification of Giant Garter Snakes, including radiotelemetry and pit tagging as part of mark/recapture studies and habitat utilization studies as authorized by the U.S. Fish and Wildlife Service. In leadership role,

demonstrated proper handling, capture, and pit tagging techniques to other field technicians often while working in adverse conditions. Responsible for data collection and maintaining and utilizing equipment (e.g. GPS, telemetry, tagging).

Supervisor: Eric C. Hansen, Consulting Environmental Biologist
2020 U Street, Suite 300, Sacramento, CA 95818
916.451.0440 echansen@sbcglobal.net

Summer 2010: **Radiotelemetry Technician working with California Tiger Salamanders** (*Ambystoma californiense*), **Jepson Prairie, Olcott, CA**

- Worked independently at Jepson Prairie, a University of California Reserve. Conducted telemetry and determinations of azimuth bearings for multiple radiotagged California Tiger Salamanders over the course of three weeks during the months of June, July, and August 2010. Assisted in a mark recapture survey using drift fences and pitfalls targeting the emergence of salamanders from vernal pools on the reserve. Also assisted in morphometric analysis and tagging of salamanders.

Supervisor: Dr. Peter Trenham
University of California, Davis
360.206.8566 ptrenham@yahoo.com

November 2009-April 2010: **Biological Science Technician, Stone Lakes National Wildlife Refuge**

- Hired by U.S. Fish and Wildlife Service at the GS-4 level to implement and oversee numerous monitoring projects within the Stone Lakes National Wildlife Refuge. These projects include native plant restoration, vernal pool monitoring, mist-netting for passerines, regulating waterfowl hunts, monitoring Great Blue Heron, Greater Egret, and Double-Crested Cormorant rookeries, monitoring Wood Duck reproduction, and surveying presence/absence and habitat utilization of Sand Hill Cranes, shore birds, and waterfowl within the refuge.

Supervisor: Bart McDermott, USFWS Refuge Manager
U.S. Fish and Wildlife Service, Stone Lakes National Wildlife Refuge,
1624 Hood-Franklin Road, Elk Grove, CA 95757
916.775.4426 bart_mcdermott@fws.gov

September 2009: **Grazing Monitoring Assistant**

- Contracted by Center for Natural Lands Management to perform residual dry matter (RDM) sampling and processing of samples at two annual grassland/vernal pool preserves in the Sacramento Valley. Most of the work was independently conducted and consisted of navigating to the plots, clipping quadrats, and bagging and weighing the clipped plant material. Identification of native and non-native plant species was essential in order to conduct sampling.

Supervisor: Chris Clifford, CNLM Preserve Manager
CNLM Preserve, Sacramento Valley, CA
cclifford@cnlm.org

April-August 2009: **Field Technician, Sierra Nevada Monitoring Project**

- Worked as part of a resource assessment team gathering data at various locations in the Sierra Nevada. Traveled to remote locations to deploy and retrieve automated bird recorders, and followed standardized wildlife and vegetation survey protocols. Performed small mammal trapping using Sherman and Tomahawk live traps over multiple four-day periods. Survey weeks began with hiking with heavy loads (40+ lbs) using GPS and compass navigation to locate trap sites. Objectives completed included gathering data in respect to habitat conditions and wildlife populations at the landscape scale. Increased the ability to identify Sierra Nevada flora and fauna. This work is to help identify global climate change effects on small mammal populations in the Sierra Nevada of California.

Supervisor: Canh Nguyen, Environmental Scientist
 CA Dept. of Fish and Game, 1701 Nimbus Road, Rancho Cordova, CA 95670
 916.358.2881 Office; 916.358.2912 Fax

2007-2011: **Ringtail Telemetry/Trapping (*Bassariscus astutus*) and Bat Mist Netting**

- Telemetry – Conducting home range studies utilizing radiotelemetry. Lead telemetry assistant conducting determinations of azimuth bearings for six radiocollared ringtails during winter 2007/2008, winter 2008/2009, summer 2009, and Winter 2009/2010. In addition, conducted live-trapping of ringtails under the direction of David Wyatt. Assisted with tranquilization and morphometric analysis of captured ringtails.
- Mist Netting for Bats – Field research assistant for David Wyatt with bat studies in California. Conduct set-up of netting equipment and Anabat acoustic detectors, removal and handling of bats in nets, conducting morphometric analysis of captured bats, and release of captured bats (including releases to obtain acoustic data of bat calls). Field Assistant for Bat Workshop Module for non-profit educational organization in Baja California (2008).

Supervisor: David Wyatt, M.S., Professor and Chair
 Biology Department, Sacramento City College
 916.531.0953 wyattd@scc.losrios.edu

November 2007-September 2008: **Field Technician/Lab assistant working with California Tiger Salamanders (*Ambystoma californiense*)**

- Helped implement, maintain, monitor and complete two field enclosure experiments focused on larval amphibian interactions (California Tiger Salamander, California Newts, and Pacific Chorus Frogs) in natural ponds in the Ohlone Wilderness and within the Salinas Valley. The work involved long hours, manual labor, taking careful measurements and handling of sensitive larval amphibians.

Supervisor: Maureen Ryan, Doctorate Student
 University of California, Davis
 530.304.2266 meryan@ucdavis.edu

September-December 2008: **Field Technician working on Tadpole Schooling and Parental Care in the frog, *Leptodactylus insularum*, in Gamboa, Panama**

- Worked at the Smithsonian Research Institute in Gamboa, Panama studying the behavior of the neo-tropical frog, *Leptodactylus insularum*. Field Work at study sites included: Collecting frog eggs, tadpoles, adults, and tadpole predators; daily tracking of free-ranging schools; performing behavioral observations on schools and attending female frogs. Performed mark/recapture studies on individuals caught using fluorescent coded tags. Work in the lab included: Counting, photographing, and developmentally staging eggs and tadpoles and also measuring tadpoles from photographs using Image J computer software. Created and conducted protocols for experiments in tadpole predator relationships, tadpole preference, and tadpole activities. Developed new ideas for conducting research while working in a multi-national environment and while being immersed in a Spanish speaking culture.

Supervisor: Kristiina Hurme, Doctorate Student
 Dept. of Ecology and Evolutionary Biology, University of Connecticut
 210.262.1262 kristiina.hurme@uconn.edu

2006-2007: **General Reptile and Amphibian Survey, Sutter Buttes, Yuba Co.**

- Conducted a general survey of the Reptiles and Amphibians of the Sutter Buttes using different survey methods including pit falls, drift fence arrays, cover board arrays, and visual surveys. Collected morphometric data, habitat preference, and species identification.

Supervisor: Eric Olson
 Graduate Student, California State University, Chico
 530-899-2821 eolson13@mail.csuchico.edu

November-January 2007: **Chinook Salmon Escapement Survey**

- Worked for South Yuba River Citizens League, coordinating with California Fish and Game, on the Yuba River monitoring Chinook Salmon populations by estimating the number of spawning salmon, determining sex and age of the spawners, determining the egg retention of the females in the run, and determining the percentage of coded-wire tagged fish recaptured. Used direct observations and escapement survey techniques to collect data while walking and boating down sections of the river.

Supervisor: Kenneth N. Kundargi, Fisheries Biologist
 CA Dept. of Fish and Game, 1701 Nimbus Road, Rancho Cordova, CA 95670
 916.358.2874 Office; 916.358.2912 Fax

EDUCATION & PROFESSIONAL DEVELOPMENT

- 2005-Present: Student, Berkeley City College (Major: Environmental Studies, Field Ecology; Anticipate Transfer to San Francisco State University, 2013)
- Field Ecology, Sacramento City College Career Certificate, Graduate 2011
- June 14-15, 2011: California Tiger Salamander Workshop, Alameda Country Conservation Partnership, Assisted workshop instructor, Dr. Peter Trenham, with CTS Survey Techniques
- February 16, 2011: Giant Garter Snake Workshop, The Wildlife Society, Davis, CA – Presenting Poster titled: “The efficacy of heat-branding giant garter snakes (*Thamnophis gigas*) with medical cautery units to compliment PIT tagging in multi-year mark-recapture studies” - (Coauthor)
- October 2-7, 2010: Annual Meeting of The Wildlife Society, Snowbird, UT – Presenting Poster titled: “Annual food habits of ringtails from blue oak woodland and chaparral habitat of the Central Valley, California. (2010)” - (Coauthor)
- April 8, 2010: California Red-Legged Frog Workshop, Elkhorn Slough Coastal Training Program
- March 23-24, 2010: California Tiger Salamander Workshop, Elkhorn Slough Coastal Training Program, Assisted workshop instructor, Dr. Peter Trenham, with CTS Survey Techniques
- September 20-24, 2009: Annual Meeting of The Wildlife Society, Monterey, CA – Presenting Poster titled: “Home Range Size of Ringtails, *Bassariscus astutus*, in the Sutter Buttes, Sutter County, California (2008-2009)” - (Coauthor)
- January 21-24, 2009: Annual Meeting of The Western Section of the Wildlife Society – Presented Poster titled: “Home Range Size of Ringtails, *Bassariscus astutus*, in the Sutter Buttes, Sutter County, California (Winter 2008)” - (Coauthor)
- March 28-30, 2008: Rare Pond Species (Red-Legged Frogs, California Tiger Salamanders, Western Pond Turtles) Survey Techniques Workshop
- First Aid/CPR, certified, 2009
- Swift Water Rescue, certified 2007
- PADI Diver, certified 2007

PERTINENT COMPLETED BIOLOGY COURSEWORK

- Biology 305 – Natural History of California (4 units)
- Biology 320 – Field Botany (3 units)
- Biology 330 – Natural History of Insects (3 units)
- Biology 360 – Environmental Regulations (3 units)
- Biology 362 – Field Methods in Ecology (3 units)
- Biology 364 – Restoration Ecology (2 units)
- Biology 370 – Introduction to Marine Environment (4 units)
- Biology 390 – Natural History of the Mojave Desert (2 units, total of 4 units completed)
- Biology 495 – Special Studies in Biology (3 units)

PROFESSIONAL REFERENCES

- David Wyatt
M.S., Professor and Chair
Biology Department, Sacramento City College
916.531.0953 wyattd@scc.losrios.edu
- Dr. Maureen Ryan
Ph.D. Evolution and Ecology
University of California, Davis
530.304.2266 ambystomo@gmail.com
- Dr. Kerry Kriger
Ph.D., SAVE THE FROGS - Founder, Executive Director, Ecologist
Santa Cruz, CA
831-621-6215 Kerry@savethefrogs.com