

JAIME RUDD

PROFILE

Collaborative and motivated wildlife professional proficient in wildlife conservation and management, molecular techniques, wildlife disease, and pathology.

- Gross Necropsy & Biological Sampling
- Project Management
- Statistical Analysis
- Certified in Wildlife Immobilizations
- Protocol & SOP Design
- Database Design

EDUCATION

Ph.D. Animal Biology University of California, Davis	In Progress Davis, CA
B.S. Molecular Biology & Minor in Wildlife Conservation & Management Humboldt State University	2011 Arcata, CA
A.S. Biology American River College	2007 Sacramento, CA

EXPERIENCE

Environmental Scientist California Department of Fish & Wildlife	Nov 2015 - Present Rancho Cordova, CA
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Assisting with the development and implementation of a statewide mountain lion health surveillance program. Responsibilities include:

- Conduct post-mortem examinations (necropsy) of recovered mountain lion carcasses to establish baseline health and demographic parameters and generate necropsy reports summarizing relevant findings.
- Assist with the development of standardized guidelines for biological sample collection, necropsy technique and protocol, and pathogen testing.
- Manage databases, data summary, and produce summary of findings and results to the Department.
- Provide recommendations based upon scientific data to inform long term mountain lion health monitoring.

Wildlife Ecologist Endangered Species Recovery Program	July 2015 - Present Bakersfield, CA
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Participating in epidemiological research in Bakersfield and surrounding areas with the live-capture, handling, and sampling of San Joaquin kit foxes. Responsibilities include:

- Radio-collar and monitor of kit foxes and conducting camera station surveys.

- Conduct post-mortem examinations (necropsy) of dead kit foxes and evaluate biological samples for disease diagnostics (DNA extraction from tissue and mites, Sarcoptes PCR and gel electrophoresis, microsatellite analysis).
- Manage and design databases, data summary, and produce summary of findings and results to other agencies including the California Department of Fish and Wildlife, the U.S. Fish and Wildlife Service, and the University of California, Davis.

Scientific Aid

California Department of Fish & Wildlife

Oct 2011 – Oct 2015

Rancho Cordova, CA

Work with veterinarians at the Wildlife Investigations Lab on statewide disease monitoring, mortality surveillance, and animal capture. Responsibilities include:

- Coordinate pathology surveillance for nongame species program and toxicology studies, conduct gross necropsies of multiple species including: mountain lions, bears, coyotes, gray fox, red fox, desert kit fox, San Joaquin kit fox, bobcat, fisher, raccoons, skunks; management of submissions for the state lab (California Animal Health and Food Safety Lab, Davis); train department staff and UC Davis students on safe necropsy techniques; write necropsy reports integrating gross and histology results for distribution to public entities, local governments and other agencies; re-designing mountain lion necropsy protocols and necropsy examination worksheet.
- Assist with response to disease outbreaks for nongame species and coordinate with and provide guidance to field personnel.
- Animal care lead and protocol development for diet and husbandry of deer, mountain lions and bears; train staff how to safely care for animals at the labs animal pens; communicate veterinary concerns and assist with immobilizations of species held in animals pens; experience in the care and husbandry of dangerous animals (deer, wild pig, mountain lion, bear).
- Assist with and lead chemical immobilization, trap and handle wildlife both in captivity and in the field; conduct field trapping, radio telemetry and coordinate with field biologists for the desert kit fox health monitoring program.

Course Instructor – Wildlife Handling & Restraint

Wildlife Investigations Laboratory

May 2014 & 2015

Rancho Cordova, CA

Instructor for statewide wildlife restraint and immobilization class for department biologists and wardens.

- Introduce Zoonotic Diseases and proper technique to carcass handling.
- Assist with instruction on chemical immobilizations.
- Updated drug dosages chapter for chemical immobilization in the Wildlife Restraint Manual.

Teaching Assistant – General Biology

Department of Plant Biology

Oct 2014 – June 2015

Davis, CA

Instruct laboratory sessions for UC Davis undergraduate students and develop a lesson plan for each week of instruction.

Course Instructor – Wildlife Disease Sampling Workshop

Western Section of the Wildlife Society

January 2014

Reno, NV

Co-instructor for necropsy workshop that was hosted by The Wildlife Society. Responsibilities included:

- Design and development of gross necropsy guide and manual to mammals.
- Design and development of case studies and scenarios.
- Instruction on gross necropsy techniques and proper biological sampling and storage.

Guest Speaker – Zoonotic Disease

American River College

March 2015 & Feb 2014

Sacramento, CA

Invited guest speaker to introduce wildlife disease and zoonosis to junior college students enrolled in the natural resources program.

Guest Speaker – Wildlife Health

Santa Rosa Community College

April 2014

Santa Rosa, CA

Invited guest speaker to introduce topics about wildlife health and monitoring as well as discuss the mission of the California Department of Fish and Wildlife and the Wildlife Investigations Laboratory.

Field Technician

University of California, Davis

Aug 2011 – Sept 2011

Davis, CA

Assisted a UC Davis graduate student on forest ecology project in the Klamath, Shasta, and Trinity-Alps National Forest. Responsibilities included:

- Backpack through wilderness to survey meadows for the presence of amphibians, cattle, and fish.
- Measure ambient temperature, water velocity and temperature of streams and lakes.
- Live-capture and biological sampling of amphibians for examination and disease diagnostics.

Canine Parvovirus Detection in Mesocarnivores Using Nested PCR

Humboldt State University, Senior Thesis Project

Oct 2010 – May 2011

Arcata, CA

Worked with research ecologists at the Integral Ecology Research Center (IERC) in the field and in the lab to design and conduct independent research project at the Hoopa Valley Indian Reservation. Responsibilities included:

- Collect feces for host identification and disease analysis.
- Perform DNA extraction and disease diagnostics on feces using DNA extraction using QIAmp DNA stool mini kit, nested PCR assay, and agarose gel electrophoresis.
- Database design and maintenance.

Laboratory Assistant

VetMed: Pathology, Microbiology, & Immunology

June 2010 – Aug 2010 & April 2007 – August 2008

Davis, CA

Laboratory manager for a wildlife pathologist and helped to organize the lab. Responsibilities included:

- Necropsy of small carnivores including Channel Island foxes, raccoons, and gray foxes.
- Trim of formalin-fixes tissues for histological slide preparation and performed Warthin Starry, Massons Trichome, and Cytokeratin staining.
- Maintain tissue archives, design and maintenance of national databases, and ordering of supplies.

Veterinary Technician

Lake Forest Pet Hospital

Jan 2005 – July 2008

El Dorado Hills, CA

Worked for a small animal private practice as a veterinary technician. Responsibilities included:

- Assist veterinarian and team with small animal treatment and care
- Perform dental cleanings on anesthetized animals and prepared, monitored, and recovered patients from surgery.
- Triage emergencies, documenting patient medical histories, client education on animal care and behavior, dispensing of controlled substances, and ordering hospital supplies.

Veterinary Technician / Lead Client Service Coordinator

Banfield, The Pet Hospital

Nov 1999 – Jan 2006

Sacramento, CA

Worked for a small animal practice as the lead receptionist and veterinary technician. Responsibilities included:

- Train new veterinarians, technicians, and receptionists on animal care and hospital protocols.
- Coordinate grand opening of a new hospital, oversaw billing and collections, inventoried and maintained pharmaceuticals and controlled substances.
- Document patient history electronically and educated clients on animal care.

Volunteer Research Assistant

University of California, Davis

Dec 2004 – Jan 2006

Davis, CA

Worked with biologists at the Wildlife Health Center at UC Davis investigating West Nile Virus in corvids. Responsibilities included:

- Independently monitored marked American crows and magpies via radio telemetry.
- Live corvid capture using a net gun.
- Assist with biological sampling of corvids and carcass retrieval.

Volunteer Research Assistant – Island Fox Health Project

University of California, Davis

Jan 2004 & Sept 2004

Davis, CA

Assisted Dr. Deana Clifford with live capture and handling of endangered Channel Island foxes on Santa Catalina Island for an Island fox health project. Responsibilities included:

- Tomahawk trap set up and operation, radio telemetry and triangulation, and GPS documentation.
- Assist with the physical examination and biological sampling of live-captured foxes.
- Assist with trap schedules, logistics, and stocking sample kits.

POSTERS, PRESENTATIONS, & PUBLICATIONS

Nov 2015

Jaime Rudd, Brian Cypher, Tory Westall, Erica Kelly, Janet Foley, Don Richardson, Leslie Woods, Diego Montecino, Deana Clifford. Sarcoptic mange epidemic jeopardizes a population of San Joaquin kit foxes in Bakersfield, CA. Presentation at the California Department of Fish and Wildlife 2nd Annual Science Symposium, Davis, CA.

In Press

Jaime Rudd, Nicole Stephenson, Deana Clifford, Lora Konde, Jeffrey Villepique, Janet Foley. Utilizing citizen science to document a mange epidemic in western gray squirrels (*Sciurus griseus anthonyi*) in two communities in California's San Bernardino Mountains. Wildlife Society Bulletin.

Oct 2013

Jaime Rudd, Nicole Stephenson, Janet Foley, Jeffrey Villepique, Deana Clifford. Utilizing citizen science to document the population decline and recovery of the western gray squirrel (*Sciurus griseus anthonyi*) in the San Bernardino Mountains of California. Poster presented at the California Department of Fish and Wildlife 1st Annual Science Symposium, Folsom, CA.

Jan 2013

Clifford, D.L., L. Woods, M.W. Gabriel, **J. Rudd**, E.J. Dubovi, K. Terio, F. Uzal, A. Nyaoke, A. de la Mora, S. Diab, M.T. Massar, B.L. Cypher, T.B. Darden, M. Rodriguez, A. Gonzales. Canine distemper outbreak in free-ranging desert kit foxes inhabiting a solar energy development zone. Abstracts of the Western Section Wildlife Society Annual Meeting, Sacramento, CA.

Dec 2013

Laurel E.K. Serieys, Janet Foley, Sean Owens, Leslie Woods, Erin Boydston, Lisa Lyren, Robert Poppenga, Deana Clifford, Nicole Stephenson, **Jaime Rudd**, Seth Riley. Serum chemistry, hematologic, and post-mortem findings in free-ranging bobcats (*Lynx rufus*) with notoedric mange. Journal of Parasitology 99[66]: 989-996.