

ANDREA J. ADAMS

EDUCATION

Ph.D., University of California, Santa Barbara (UCSB) <i>Ecology, Evolution, and Marine Biology</i> Dissertation: Decline and localized extirpation of the foothill yellow-legged frog (<i>Rana boylei</i>) in the presence of the fungal pathogen, <i>Batrachochytrium dendrobatidis</i> : Contemporary and historical perspectives. Advisors: Cheryl Briggs & Samuel Sweet	2017
M.A., UCSB – <i>Ecology, Evolution, and Marine Biology</i>	2013
B.A., Prescott College – <i>Environmental Studies with an emphasis in Conservation Biology</i> Undergraduate thesis: Complexities in conservation: Northern Spotted Owls of the Olympic Peninsula, Washington. Advisors: Thomas Fleischner & Walt Anderson Study abroad: Nature & Culture in Scotland & Norway; Marine Science & Kayak Studies in Baja California, Mexico	2003
Pre-baccalaureate coursework, Michigan State University <i>Environmental Studies</i> Study abroad: Interdisciplinary Studies in Nepal	1998 – 2000

PROFESSIONAL EXPERIENCE

Environmental Specialist, Lompoc, California <i>ManTech SRS Technologies</i> . Conduct research and make recommendations for ecological restoration projects on Federal lands. Supervisor: John LaBonte	Oct. 2017 - present
Lecturer, Santa Barbara, California <i>Department of Environmental Studies, UCSB</i> . Develop curriculum and teach Endangered Species Management course. Supervisor: Carla D'Antonio	Apr. 2017 – present
Biological Science Technician, Three Rivers, California <i>U.S. National Park Service, Sequoia-Kings Canyon National Park</i> . Conducted aquatic restoration in alpine lake ecosystems. Duties: remove nonnative fish via gill nets and electrofishing; conduct mountain yellow-legged frog (<i>Rana muscosa</i>) surveys. Supervisor: Danny Boiano	July – Sept. 2017
Research Associate, Santa Barbara, California <i>Institute for Social, Behavioral, and Economic Research, UCSB</i> . Provided research and administrative support for the UCSB California Grizzly Study Group (Group). Duties: led stable isotopes analysis of grizzly bear (<i>Ursus arctos</i>) diet; assisted in facilitation of weekly Group meetings; assisted in development of Group website. Supervisor: Peter Alagona	Apr. – June 2017
Graduate Student Instructor, Santa Barbara, California <i>Department of Ecology, Evolution, and Marine Biology, UCSB</i> . Courses taught: Non-infectious Disease; Ecology of Disease; Vertebrate Evolutionary Morphology; Biology of Amphibians and Reptiles; Principles of Evolution; Vertebrate Zoology. Supervisors: Samuel Sweet, John Latto, Stephen Rothstein	Sept. 2011 – June 2016
Fish and Wildlife Biologist, Ventura, California <i>U.S. Fish and Wildlife Service</i> . Lead biologist for California tiger salamander (<i>Ambystoma californiense</i>), Santa Barbara County Distinct Population Segment (SBCTS). Duties: conduct permitting, recovery, and conservation initiatives for SBCTS and sympatric species. Led establishment of first conservation bank for SBCTS; coauthored Lacey Act Rule to prevent importation of salamanders that could transmit a pathogenic fungus; led the writing of the SBCTS 5-year review and draft recovery plan. Supervisor: Catherine Darst	Oct. 2008 – Sept. 2015
Scientific Aide, Santa Barbara, California <i>California Department of Fish and Game, Marine Region</i> . Surveyed sport fisheries on Santa Barbara County beaches to determine effects of recreational fishing on near-shore fish populations. Supervisor: Sabrina Bell	June – Oct. 2008

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- Research Biologist, Kalamazoo, Michigan Apr. – Aug. 2007
Michigan Natural Features Inventory. Independently conducted breeding bird surveys across several counties in southern Michigan and managed all data.
- Research Associate/Administrative Assistant, Ann Arbor, Michigan Sept. 2006 – Aug. 2008
University of Michigan Medical School, Department of Psychiatry. Assisted Addiction Research Center Director in data management and other research and outreach support duties; managed human resources tasks and assured efficient office workflow. Supervisors: Robert Zucker, Jacqui Grisdale
- Ornithological Research Assistant, Ann Arbor, Michigan Apr. – Aug. 2006
University of Michigan School of Natural Resources and the Environment. Lead field assistant for a study aimed at determining the effects of forest fragmentation on West Nile Virus in Wood Thrush (*Hylocichla mustelina*). Duties: mist netting, blood sample collection and analysis. Supervisor: Johannes Foufopoulos
- Release Biologist, San Clemente Island Naval Auxiliary, California Jan. – Oct. 2005
Institute for Wildlife Studies. Implemented recovery actions for the endangered San Clemente Island Loggerhead Shrike (*Lanius ludovicianus mearnsi*) on San Clemente Island Naval Auxiliary. Duties: Soft release cage construction, participate in soft releases, conduct monitoring and supplemental feeding of captive and wild birds. Supervisor: Shane Heath
- Scientific Technician—Biologist, Ear Falls, Ontario, Canada March – Dec. 2004
University of Guelph Department of Integrative Biology. Conducted field research on the effects of timber harvest on home range use by American marten (*Martes americanus*) and Boreal owls (*Aegolius funereus*). Duties: capture, processing, radiotagging, and release of marten and owls; trail maintenance for access to field sites via ATV and snowmobile; snow track surveys; small mammal trapping; radiotelemetry via ATV, foot, and pickup truck. Supervisor: John Fryxell
- Biological Research Assistant, Hermosillo, Sonora, México Jan. – March 2004
Universidad Nacional Autónoma de México, Instituto de Ecología. Assisted field research on the effects of invasive, exotic buffelgrass (*Pennisetum ciliare*) on native Sonoran Desert flora. Duties: vegetation and biomass sampling, ash-free analysis. Supervisor: Kelly Lyons, Trinity University.
- Resource Education Ranger, Kalaloch & Forks, Washington May – Sept. 2003
U.S. National Park Service, Olympic National Park. Conducted public outreach and education programs for park visitors; staffed the park visitors' center; led educational hikes. Supervisor: Susan Qashu
- Assistant Trip Leader, Tin Cup, Colorado May – Sept. 2001
Longacre Expeditions. Led backpacking, whitewater rafting, and rock climbing trips for teens in the Colorado Rocky Mountains.
- Steward, Kalamazoo, Michigan May – Dec. 2000
Kalamazoo Nature Center. Maintained Nature Center properties and trails, including forest and prairie, and conducted native prairie plantings and restoration. Coordinated native plant sale and maintained greenhouse. Supervisor: Randy Gray

PEER-REVIEWED SCIENTIFIC PUBLICATIONS

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- Peralta-Garcia, A., **A.J. Adams**, P. Galina-Tessaro, C.J. Briggs, J.H. Valdez-Villavicencio, B.D. Hollingsworth, and H.B. Shaffer. *In revision*. Occurrence of *Batrachochytrium dendrobatidis* in anurans of the Mediterranean region of Baja California, Mexico.
- Adams, A.J.**, A.P. Pessier, and C.J. Briggs. 2017. Rapid extirpation of a North American frog coincides with an increase in fungal pathogen prevalence: Historical analysis and implications for reintroduction. *Ecology and Evolution* 2017:00:1-17.
- Adams, A.J.**, S.J. Kupferberg, M.Q. Wilber, M. Grefsrud, S. Bobzien, V.T. Vredenburg, and C.J. Briggs. 2017. Extreme drought, host density, sex, and bullfrogs influence fungal pathogen infection in a declining lotic amphibian. *Ecosphere* 8: e01740.
- Adams, A.J.**, C.J. Dellith, and S.S. Sweet. 2016. *Rana aurora* (Northern red-legged frog). Transport. *Herpetological Review* 47: 648.

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- Goldberg, J., S. Jewell, A. Picco, **A. Adams**, J. Bader, J. Ballard, and I. Posano. 2016. Interim Rule: Injurious Wildlife Species; Listing Salamanders Due to Risk of Salamander Chytrid Fungus. U.S. Fish and Wildlife Service, Washington, D.C. 23 pp.
- Adams, A.J.**, J.P. LaBonte, K.L. Richards-Hrdlicka, M.J. Ball, M.H. Toothman, and C.J. Briggs. 2015. DNA extraction method affects detection of a fungal pathogen in specimens using qPCR. PLoS ONE 10: e0135389.
- Adams, A.J.**, C. Darst, and C. Rutherford. 2015. Draft recovery plan for the Santa Barbara County Distinct Population Segment of the California tiger salamander (*Ambystoma californiense*). U.S. Fish and Wildlife Service, Ventura Fish and Wildlife Office, Ventura, California: 76 pp.
- Mendelson, J.R., and **A.J. Adams**. 2014. *Diadophis punctatus* (Ring-necked snake) Diet. Herpetological Review 45: 709-710.

SCIENCE WRITING & REPORTS

- Adams, A.J.** and E.A. Wilson. 2017. Final report on amphibian surveys: UCSB Sedgwick Reserve, Winter 2017. 22 pp.
- Adams, A.J.** 2016. Environmental Conference Cuts Travel Emissions, Fosters Communication. UCSB Daily Nexus. May 26, 2016.
- Adams, A.J.** 2016. UCSB Campus a Haven for Birdwatchers. UCSB Daily Nexus. May 12, 2016.
- Adams, A.J.** 2014. Banking on conservation: California tiger salamander recovery in Santa Barbara County. U.S. Fish and Wildlife Service Field Notes.
- Adams, A.J.** and K. Drexhage. 2009. California tiger salamander (*Ambystoma californiense*), Santa Barbara County Distinct Population Segment 5-year review: Summary and evaluation. U.S. Fish and Wildlife Service, Ventura Fish and Wildlife Office, Ventura, California: 59 pp.

PRESENTATIONS & INVITED LECTURES (SELECTED)

- Adams, A.J.**, A.P. Pessier, and C.J. Briggs. 2017. Historical rise in fungal pathogen prevalence coincides with rapid southern California extirpation of *Rana boylii*. California-Nevada Declining Amphibian Populations Task Force Meeting, Santa Barbara, California. (Contributed presentation)
- Adams, A.J.** 2017. The role of disease in the disappearance of a southern California frog. University of California Sedgwick Reserve public lecture series, Santa Ynez, California. (Invited lecture)
- Adams, A.J.**, A.P. Pessier, and C.J. Briggs. 2016. Examining the historical role of disease in the regional extirpation of a California anuran. Integrated Research Challenges in Environmental Biology, Amphibian Disease Annual Meeting, Arizona State University, Tempe, Arizona. (Contributed presentation)
- Adams, A.J.**, S.J. Kupferberg, M. Wilber, S. Bobzein, M. Grefsrud, V. Vredenburg, and C.J. Briggs. 2016. Multiple factors predict fungal pathogen infection in a declining California frog. North American Congress for Conservation Biology, Madison, Wisconsin. (Contributed Presentation)
- Adams, A.J.**, S.J. Kupferberg, S. Bobzein, M. Grefsrud, V. Vredenburg, and C.J. Briggs. 2015. Chytrid infection, drought, and flow regulation create multiple stressors on foothill yellow-legged frog populations in the Alameda Creek watershed. California-Nevada Amphibian Populations Task Force Annual Meeting, Pepperdine University, Malibu, California. (Contributed Presentation)

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- Adams, A.J.**, J.P. LaBonte, K. Richards-Hrdlicka, M. Ball, M.H. Toothman, and C.J. Briggs. 2014. Evaluating methods for detecting *Batrachochytrium dendrobatidis* in formalin-preserved specimens using qPCR. Integrated Research Challenges in Environmental Biology, Amphibian Disease Annual Meeting, Arizona State University, Tempe, Arizona. (Contributed Presentation)
- Adams, A.J.** 2014. Amphibian declines in southern California. UCSB Wildlife in America Course. (Invited Lecture)
- Adams, A.J.**, S.S. Sweet, and C.J. Briggs. 2014. Examining anuran declines in southern California's Western Transverse Ranges: Did disease play a role? Southern California Academy of Sciences Annual Meeting, California State University Channel Islands, Camarillo, California (Contributed Presentation)
- Adams, A.J.** 2013. Update on the Santa Barbara County Distinct Population Segment of the California tiger salamander. The Wildlife Society Central Coast Wildlife Roundtable and Career Symposium, California Polytechnic State University, San Luis Obispo, California. (Invited presentation)
- Adams, A.J.** 2012, 2014. Endangered Species Management at the U.S. Fish and Wildlife Service. UCSB Conservation Biology course. (Invited lecture)
- Adams, A.J.** 2010. Management of non-native tiger salamanders at Lompoc Federal Penitentiary. U.S. Fish and Wildlife Service Ventura Field Office, Ventura, California. (Invited presentation)
- Adams, A.J.** 2003. Complexities in conservation: Northern spotted owls of the Olympic Peninsula, Washington. Prescott College Baccalaureate, Prescott, Arizona. (Invited lecture)

GRANTS, FELLOWSHIPS, AND AWARDS

UCSB Doctoral Student Travel Grant (\$685)	2016
Robert and Patricia Switzer Foundation Fellowship (\$15,000)	2014 – 2015
Broida-Hirschfelder Graduate Fellowship (\$8,000)	2014 – 2015
Brython Davis Endowment Graduate Fellowship (\$12,751)	2014 – 2015
UCSB Ecology Evolution and Marine Biology Block Grant (\$11,147)	2013 – 2014
Brython Davis Endowment Graduate Fellowship (\$12,647)	2013 – 2014
Worster Award for Graduate-Undergraduate Research Pairing (\$3,290)	2013
Leal Ann Kerry Mertes Scholarship (\$1,250)	2012
Brython Davis Endowment Graduate Fellowship (\$12,666)	2012 – 2013
UCSB Ecology, Evolution, and Marine Biology Block Grant (\$255)	2012 – 2013
UCSB Ecology, Evolution, and Marine Biology Block Grant (\$722)	2011 – 2012
UCSB Ecology, Evolution, and Marine Biology Fellowship (\$33,754)	2010 – 2011
U.S. Fish and Wildlife Service STAR Awards	2009, 2014, 2015
U.S. Fish and Wildlife Service Performance Awards	2008 – 2014

PROFESSIONAL SERVICE, VOLUNTEERING & OUTREACH

Advisory Board Member, Santa Clara River Watershed Conservancy	2017 – present
Peer Reviewer	2015 – present
<i>Journal of Animal Ecology, Ecology and Evolution, Herpetological Conservation and Biology, EcoHealth</i>	
Communications Officer, UCSB Women in Science & Engineering	2015 – 2017
Member, UCSB Ecology Graduate Student Advisory Committee	2010 – 2013

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Featured Species Interview, California Tiger Salamander	2012
Creek restoration, Center for Natural Lands Management	2008
Bird Bander, Rouge River Bird Observatory, Dearborn, Michigan	2006 – 2007
Avian point counts, University of Michigan School of Natural Resources & Env't.	2007
Bird Skin Preparer, University of Michigan Museum of Zoology Bird Division	2006
Northern Spotted Owl (<i>Strix occidentalis caurina</i>) surveys	2002 – 2003

MENTORING & LEADERSHIP POSITIONS

Mentor, UCSB Women in STEM Mentorship Program (mentee Karen Sidhu)	2016
Undergraduate Student Mentor in Research (mentee Megan Swanson, UCSB)	2014 – 2016
Undergraduate Student Mentor in Research (mentee Paul Malone, UCSB)	2014
Undergraduate Student Mentor in Research (mentee Theora Tiffney, UCSB)	2012 – 2014
Undergraduate Student Mentor in Research (mentee Kai Atkinson, UCSB)	2012
Wilderness Orientation Instructor & Trip Leader, Prescott College, Arizona	2003