

Peter Nicolas Epanchin, Ph.D.

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Education

- **University of California, Davis. Ph.D., Ecology**, June 2009. *Dissertation*: Indirect effects of nonnative trout on an alpine-nesting passerine bird via depletion of an aquatic insect subsidy
- **University of California, Santa Cruz. B.A., Environmental Studies**, Winter 1996. *Thesis*: Kern River Daisy (*Erigeron multiceps*): A species management guide for Sequoia National Forest

Teaching Experience

- **University of California, Davis**, teaching assistant/laboratory instructor:
 - Introductory Biology/Zoology (BioSci 1B; Instructor: Dr. P. Trenham) Fall 2007
 - Upper division Ecology (EVE 101; Instructor: Dr. J. Stachowicz) Winter 2005
 - Upper division Ecology (EVE 101; Instructor: Dr. D. R. Strong) Fall 2004
- **University of California, Davis**, lecturer for undergraduate conservation biology seminar
 - Lecture*: Using stable isotopes to map food webs January 3, 2007
 - Lecture*: Effects of non-native fish on an ecosystem subsidy February 16, 2006
- **Rising Sun Energy Center**, Santa Cruz, California, 6th grade science teacher, internship 1994-1995
- **Lycée du Gresivaudan**, Meylan, France. English teacher, internship 1990-1991

Post-doctoral Employment

- **University of California, Berkeley, Museum of Vertebrate Zoology**. Assessing long-term dynamics of bird distributions in relation to climate change: from Grinnell to present

Government Agency & Wildlife Biologist Employment

- **U.S. Fish & Wildlife Service**, Sacramento Field Office. Summer 1999-Spring, 2004
Endangered Species Regulatory Biologist & Endangered Species Act Specialist.
- **University of Florida**, White ibis endocrine disruption study in Everglades. Winter-Summer, 1999
Developed and implemented an ibis trapping protocol. Bled, banded, and fitted radio-transmitters on birds. Tracked birds from planes with telemetry. Conducted aerial surveys to locate radio-tagged ibises and to survey wading bird colonies.
- **California State University, Humboldt & U.S. Geological Survey**, Flagstaff, Arizona. Spring-Fall, 1998
Mexican spotted owl demography research. Monitored nesting status of owls. Captured, color-banded and measured juvenile and adult owls. Recorded detailed behavior and habitat data.
- **University of California, Sierra Nevada Aquatic Research Laboratory**. Summer-Fall, 1997
Researched nonnative trout effects on amphibian populations. Surveyed amphibians, trout, and aquatic invertebrates.
- **Bald Eagle Nest Watch Program, Arizona Department of Game and Fish**. Winter-Spring, 1997
Collected and analyzed data. Wrote report on nesting behavior and success of breeding bald eagles in Arizona.
- **Utah Department of Natural Resources, Division of Wildlife Resources**. Fall-Winter, 1996
Implemented recovery actions for federally-endangered fish. Managed a state-wide herpetological database.
- **Forestry Sciences Laboratory, U.S.F.S.**, Juneau, Alaska. Student Conservation Association. Summer-Fall, 1996
Conducted neotropical migratory bird surveys, searched for nests and studied winter wren nest success.
- **Joshua Tree National Park**, California desert. Student Conservation Association. Winter-Spring, 1996
Propagated native vegetation, implemented desert restoration projects, mapped and classified plant communities.
- **Sequoia National Forest**, Sierra Nevada, California Undergraduate botanist. Summer-Fall, 1995
- **Mono County Water District & U.C. Santa Cruz**. Volunteer wetland delineator. Spring-Summer, 1995
- **Big Sur Ornithology Lab**, Big Sur, California. Internship, field assistant. 1994
- **Orca Behavior Study**, British Columbia, Canada. Volunteer field assistant. Summer, 1993

Peer Reviewed Publications

- Epanchin, P. N., R. A. Knapp, and S. P. Lawler. *In press*. Nonnative trout impact an alpine-nesting bird by altering aquatic insect subsidies. *Ecology*.
- Epanchin, P. N., and A. Engilis Jr. 2009. Mount Lyell shrew (*Sorex lyelli*) in the Sierra Nevada, California, with comments on alpine records of *Sorex*. *The Southwestern Naturalist* 54:354-357.
- Epanchin, P. N., J. A. Heath, and P. C. Frederick. 2002. Effects of fires on foraging and breeding wading birds in the Everglades. *Wilson Bulletin*. 114(1):139-141.

Works in Progress

- Epanchin, P. *In prep*. Nonnative fish, imperfect information, and a mismatch between food and bird distributions.
- Epanchin, P. *In prep*. Temporal changes in the use of an aquatic subsidy by an alpine-nesting passerine.

Other Publications

- Stephens, S. J., C. McGuire, L. Sims, P. Strand, L. McDougal, A. Zerrenner, and P. Epanchin. 2004. Conservation Assessment and Strategy for the California Golden Trout (*Oncorhynchus mykiss aguabonita*) Tulare County, California. California Department of Fish and Game, USDA Forest Service, U.S. Fish and Wildlife Service. <http://www.tucalifornia.org/cgtic/GTCAssessmnt&Strategy9-04.pdf>
- Epanchin, P. N. 2003. Endangered and threatened wildlife and plants; 12-month finding for a petition to list the Sierra Nevada distinct population segment of the mountain yellow-legged frog (*Rana muscosa*). Federal Register. 50 Code of Federal Regulations, part 17. 68(11):2283-2303.

Grants and Awards Received

- U.S. Environmental Protection Agency. Science To Achieve Results (STAR) fellowship (grant number F5F21828). Indirect effects of nonnative fish on alpine birds in the Sierra Nevada: the effects of invasive species on ecosystem subsidy. 2005-2008 (\$102,584).
- University of California, Davis. Jastro-Shields Graduate Research Scholarship. Beyond an aggregative response: Do nonnative fish indirectly affect bird populations? 2007 (\$2,000).
- Integrative Graduate Education and Research Traineeship (IGERT), National Science Foundation & University of California, Davis. Using stable isotopes to evaluate effects of nonnative fish on ecosystem subsidies. 2007 short-term fellowship (\$1,000).
- University of California, White Mountain Research Station, minigrant. Ecosystem subsidies and indirect effects of nonnative fish in an alpine food web. 2007 (\$1,937).
- University of California, Sierra Nevada Aquatic Research Laboratory. Valentine Eastern Sierra Reserve minigrant. Resource subsidies & indirect effects of nonnative fish in an alpine food web. 2006 (\$2,200).
- University of California, White Mountain Research Station, minigrant. Ecosystem subsidies and indirect effects of nonnative fish in an alpine food web. 2006 (\$1,960).
- University of California, Davis. Jastro-Shields Graduate Research Scholarship. Indirect effects of nonnative fish on the avian recipients of a resource subsidy. 2005 (\$1,000).
- University of California, Sierra Nevada Aquatic Research Laboratory. Valentine Eastern Sierra Reserve minigrant. Resource subsidies & indirect effects of nonnative fish in an alpine food web. 2005 (\$950).

Professional Presentations

- UC Davis School of Law, Environmental Law Symposium. February 20, 2009. *Invited panelist*: Beyond charismatic megafauna: science within the legal framework of the Endangered Species Act.
- Ecological Society of America. Milwaukee, Wisconsin. August 6, 2008. Indirect effects of nonnative trout on the avian recipients of an aquatic resource subsidy.
- Barcroft Research Station, White Mountains, University of California. August 5, 2007. Indirect effects of nonnative fish on passerine birds.

- White Mountain Research Station. Bishop, University of California. January 18, 2007. Thinking outside the lake: Do fishes and finches fight for food?
- EPA Graduate Fellowship Conference. Washington D.C. September 24-26, 2006. *Poster presentation*: Indirect effects of non-native fish on birds in an alpine environment.
- American Fisheries Society, 40th Annual Conference of the California-Nevada Chapter. San Luis Obispo, California. April 1, 2006. *Invited talk*: Indirect effects of trout on birds in an alpine environment.
- Community Ecology Graduate Seminar. U.C. Davis. February 24, 2005. Indirect effects of non-native species on the recipients of a resource subsidy in an alpine environment.
- Animal Behavior Graduate Group, Annual Symposium. U.C. Davis. January 29, 2005. Indirect effects of non-native fish on the foraging behavior of gray-crowned rosy finches.
- Bay Area Conservation Biology Symposium. Stanford University. January 22, 2005. *Poster presentation*: Indirect effects of non-native fish on Gray-crowned Rosy Finches, Sierra Nevada.
- Declining Amphibian Population Task Force. California State University, Sacramento. January 10, 2003. 1. 12-month finding on the petition to list the mountain yellow-legged frog; *and* 2. Final recovery plan for the California red-legged frog.
- Declining Amphibian Population Task Force. San Diego, California. January 3, 2002. Status of endangered species listing review of the mountain yellow-legged frog.
- The Western Section of the Wildlife Society, California red-legged frog workshop. Marshall, California. February 2002. 1. Final recovery plan for the California red-legged frog; *and* 2. Revising the Fish and Wildlife Service's survey protocol for the California red-legged frog.

Academic and Professional Services

- Graduate Group in Ecology, Executive Committee, Graduate Student Representative, 2007-2009.
- U.C. Davis Natural Reserve System Advisory Committee, Graduate Student Representative, 2006-2009.
- President, Society for Conservation Biology, Davis Student Chapter, 2006-2007.
- Treasurer, Society for Conservation Biology, Davis Student Chapter, 2005-2006.
- Member, California Golden Trout (*Oncorhynchus mykiss aguabonita*) Conservation Assessment and Strategy Committee, 2002-2004.
- Member, Carson Wandering Skipper (*Pseudocopaedes eunus obscurus*) Recovery Team, U.S. Fish and Wildlife Service, Reno, Nevada, 2001-2004.

Professional Society Membership

- Association of Field Ornithologists
- Cooper Ornithological Society
- Ecological Society of America
- Society for Conservation Biology