

## **DAVE PRIVAL**

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### **EDUCATION**

#### **University of Arizona, Tucson, AZ**

M.S. in Wildlife Science, December 2000.

Thesis: Ecology and Conservation of the Twin-spotted Rattlesnake, *Crotalus pricei*.

#### **U.S. Department of Agriculture Graduate School, Washington, D.C.**

Winter 1996-Winter 1997: Studied natural resources laws, the Clean Air Act, RCRA, CERCLA, ornithology, and woody plant identification.

#### **Wesleyan University, Middletown, CT**

B.A. in Earth & Environmental Science, May 1995. Studied geology, biology, chemistry, physics, and social sciences.

#### **School for International Training, Semester in Botswana**

Fall 1994: Studied ecology and conservation issues, completed study of artificial waterhole management.

### **SELECTED WORK EXPERIENCE**

#### **Partner – Southwestern Ecological Research Company ([www.sercaz.com](http://www.sercaz.com)), Tucson, AZ. February 2007 to present.**

Co-founded environmental consulting company to conduct wildlife and plant surveys and wildlife research studies. Led pre-construction and clearance surveys for Desert Tortoises and other sensitive species, radiotracked and re-transmitted tortoises, and monitored for tortoises during construction at sites in California and Arizona. Surveyed for Blunt-nosed Leopard Lizards. Conducted long-term monitoring of Twin-spotted Rattlesnake population and genetic study. Conducted comprehensive evaluation of site for National Natural Landmark status. Inventoried reptile, amphibian, and mammal species at mine site. Conducted biological surveys at proposed drill sites. Monitored Lesser Long-nosed Bats and designed Barking Frog monitoring program for Coronado National Memorial, AZ. Conducted bat surveys and implemented exclusion measures at construction sites. Assisted with research on Narrow-headed Gartersnakes and fish predators and prey. Conducted surveys for Tucson Shovel-nosed Snakes to assess species status. Clients include federal and state government, construction and mining companies, and other environmental consulting companies.

#### **Independent Contractor – Sundance Biology, Inc., Paso Robles, CA. April 2009 to June 2014.**

Led Desert Tortoise clearance survey crews, monitored for tortoises during construction, and conducted radiotelemetry at solar energy facilities in California. Conducted pre-construction Desert Tortoise surveys at numerous sites in California and Nevada.

#### **Field Technician – Environmental Planning Group, Inc., Tucson, AZ. January to November 2006.**

Recruited, trained, and supervised field crews conducting native plant surveys along proposed natural gas pipeline routes on Arizona state lands between Flagstaff, AZ and the Mexican border. Also conducted Pima Pineapple Cactus surveys, Cactus Ferruginous Pygmy Owl surveys, and amphibian surveys at various Arizona locales.

#### **Field Technician – University of Arizona, School of Natural Resources, Tucson, AZ. May 2005 to October 2006.**

Worked with graduate student to test methods for monitoring Desert Tortoise populations in Saguaro National Park, AZ and conducted vegetation study at Las Cienegas National Conservation Area, AZ. Tortoise study involved distance sampling and site occupancy surveys, as well as measuring and marking tortoises. Vegetation study involved characterizing vegetative cover along transects to obtain baseline data prior to a prescribed fire.

**Senior Research Specialist – University of Arizona, School of Natural Resources, Tucson, AZ.** November 2003 to March 2005.

Researched and wrote an Environmental Assessment covering planned fire management activities for Amistad National Recreation Area, TX. Also researched and wrote the first Fire Management Plan for the same park. Wrote newsletter designed to explain fire management proposals to the public. Assisted with writing and reviewing Environmental Impact Statements covering planned fire management activities for Carlsbad Caverns National Park, NM and Chiricahua National Monument, AZ.

**Reptile and Amphibian Inventory Field Crew Leader – University of Arizona, National Park Service Inventory and Monitoring Program, Tucson, AZ.** April 2003 to October 2004.

Led reptile and amphibian inventories in six Chihuahuan Desert Region National Parks, including Amistad National Recreation Area, TX; Big Bend National Park, TX; Carlsbad Caverns National Park, NM; Fort Davis National Historic Site, TX; Guadalupe Mountains National Park, TX; and White Sands National Monument, NM. Assisted in design of inventory plan, created datasheets, organized all surveys and was responsible for all logistics, prepared museum voucher specimens and tissue samples, took photo vouchers, installed pitfall traps and trained park staff and volunteers to run them, and trained and supervised field crew and volunteers. Also analyzed data, wrote final report, and made recommendations for future inventory and monitoring efforts.

Other work experience includes leading a reptile and amphibian inventory crew in four Sonoran Desert Region National Parks, assisting with reptile and amphibian inventories and other wildlife field projects throughout Latin America, working as a Biological Science Technician at Gateway National Recreation Area, working as a Research Assistant for the Wildlife Habitat Council, and working through the Student Conservation Association as a firefighter at Olympic National Park and as a cave specialist/ interpreter at Craters of the Moon National Monument.

#### CERTIFICATIONS

Desert Tortoise Surveying, Monitoring, and Handling Techniques Training; Chiricahua Leopard Frog Surveyor Training; Flat-tailed Horned Lizard Surveyor Training; Burrowing Owl Surveyor Training; MSHA Surface Miner Training; Developing a Biological Assessment Training; National Registry and Wilderness Emergency Medical Technician (lapsed); Interagency Fire Job Qualification Red Card.

#### SELECTED PUBLICATIONS

Prival, D.B. 2015. Lateral vessel puncture: A new method for drawing blood from small snakes. *Herpetological Review* 46: 347–349.

Prival, D., and M. Goode. 2014. A herpetological inventory of Chihuahuan Desert national parks. Pp. 283–319. *In* C.A. Hoyt and J. Karges (eds.). *Proceedings of the Sixth Symposium on the Natural Resources of the Chihuahuan Desert Region*. Chihuahuan Desert Research Institute, Fort Davis, TX.

Prival, D.B., and M.J. Schroff. 2012. A 13-year study of a northern population of Twin-spotted Rattlesnakes (*Crotalus pricei*): Growth, reproduction, survival, and conservation. *Herpetological Monographs* 26: 1–18.

Prival, D. 2008. Morphology, reproduction, and habitat use of a northern population of Banded Rock Rattlesnakes, *Crotalus lepidus klauberi*. Pp. 431–440. *In* W.K. Hayes, K.R. Beaman, M.D. Cardwell, and S.P. Bush (eds.). *The Biology of Rattlesnakes*. Loma Linda University Press, Loma Linda, CA.

Prival, D.B., M.J. Goode, D.E. Swann, C.R. Schwalbe, and M.J. Schroff. 2002. Natural history of a northern population of Twin-spotted Rattlesnakes, *Crotalus pricei*. *Journal of Herpetology* 36: 598–607.

Holycross, A.T., C.W. Painter, D.B. Prival, D.E. Swann, M.J. Schroff, T. Edwards, and C.R. Schwalbe. 2002. Diet of *Crotalus lepidus klauberi* (Banded Rock Rattlesnake). *Journal of Herpetology* 36: 589–597.