

## Disclosures

We declare no financial competing interests.

Treves' work was cited by the WDFW Team and by L&P as follow:

Ohrens, O., C. Bonacic, and A. Treves. 2019. Non-lethal defense of livestock against predators: flashing lights deter puma attacks in Chile. *Frontiers in Ecology and the Environment* 17: 32-38.

Ohrens, O., A. Treves, and C. Bonacic. 2016. Relationship between rural depopulation and puma-human conflict in the high Andes of Chile. *Environmental Conservation* 43: 24-33.

Treves, A. and K. U. Karanth. 2003. Human-carnivore conflict and perspectives on carnivore management worldwide. *Conservation Biology* 17: 1491-1499.

Treves, A., 2009. Hunting for large carnivore conservation. *Journal of Applied Ecology* 46: 1350-1356.

Treves A. Hunting for large carnivore conservation. *J Appl Ecol.* 2009; 46: 1350–1356.

Artelle KA, Reynolds JD, Treves A, Walsh JC, Paquet PC, Darimont CT. Hallmarks of science missing from North American wildlife management. *Sci Adv.* 2018. 4: eaao0167. <https://doi.org/10.1126/sciadv. aao0167> PMID: 29532032

Treves' list of funding sources since 2007 and CV for all potential non-financial competing interests related to work outside of his institution: [All funding awarded to Adrian Treves as of 13 April 2022](#) and a CV [for disclosure of potential competing interests](#).

## LM Elbroch

**Citations in this work:** Elbroch's work was cited by the WDFW Team and by L&P as follow:

Elbroch LM, Quigley H. Social interactions in a solitary carnivore. *Curr Zool*, 2017; 63: 357–362 [https:// doi.org/10.1093/cz/zow080](https://doi.org/10.1093/cz/zow080) PMID: 29491995

Elbroch, M. L. and H. Quigley. 2019. Age-specific foraging strategies among pumas, and its implications for aiding ungulate populations through carnivore control. *Conservation Science and Practice* 1: e23.

**Research and employment:** Elbroch maintains current research on pumas in Washington, California, Chile and Argentina, defined as active data collection via capture and GPS technology or camera traps. He has worked for Panthera, the global wildcat science and conservation organization, since 2012 when he graduated from the University of California, Davis with a doctorate in Ecology.

**Literature:** Elbroch has contributed to mainstream books and peer-reviewed literature, most of which is focused on puma ecology and conservation. Books are available [here](#), and scientific resources are accessible via [Google Scholar](#) and [Researchgate](#).

**Outreach:** Elbroch actively engages with the media and in various outreach capacities, mostly with regards to puma ecology and conservation. Most video content can be found [here](#) and other media [here](#).

**Funding:** Elbroch's direct support for the last 5 years, all of which is dedicated to puma conservation, has come from the Ayers Wildcat Conservation Trust (\$1.6 million), Fat-Cat Fish Company (\$500,000), Regina Bauer Frankenberg Foundation (\$220,000), Carroll Petrie Foundation (\$550,000), Summerlee Foundation (\$270,000), National Geographic Society (\$30,000), and other private individuals (\$98,000).

### **Memberships and Professional service (unpaid)**

IUCN Cat Specialist Group (member)

American Society of Mammalogists (member)

International standards committee, CyberTracker International

Director, CyberTracker International

Wild Felid Association (previous Chair for Grants Committee and General Council)

Peer reviewer for numerous scientific publications.

Elbroch is also a member (unpaid) of 1) WDFW Cougar Focus Group, with a focus on providing guidance with regards to stakeholder outreach materials, 2) Texans for Mountain Lions, which is advocating for changes in state policy and regulation with regards to the species, 3) Cougar Research Collaborative, which explores puma dispersal and the potential biological and social carrying capacities for pumas to return to historic range, and 4) other groups composed of academics analyzing shared data sets.

### **Fred Koontz**

Koontz and Washington Department of Fish & Wildlife (WDFW) and Washington Fish & Wildlife Commission

From 2011 – 2017, Koontz collaborated with WDFW on endangered species recovery programs for western pond turtle, Oregon silverspot butterfly fly, and Oregon spotted frog. He served on WDFW's Wildlife Diversity Advisory Council, 2012-2018; Budget and Policy Advisory Group, 2018; and the Snoqualmie Wildlife Area Advisory Committee, 2020. He also served in 2021 as a Commissioner on the Washington Fish & Wildlife Commission.

Relevant Professional Service (Koontz retired from full-time employment in 2017)

Current activities (unpaid): Board Member (Vice-president), [Wildlands Network](#); Advisory Board, [Wildlife for All](#); Fellow, [PAN Works](#).

Current professional society memberships (unpaid): [The Wildlife Society](#); [Society for Conservation Biology](#); and [Wild Felid Research and Management Association](#). Recent professional society presentations include those at the North American Congress for Conservation Biology (July 2022) and The Wildlife Society Annual Meeting (November 2022).

Publications on Washington state wildlife: (1) Wainstein, M., Harding, L.B., O'Neill, S.M. *et al.* 2022. Highly contaminated river otters (*Lontra canadensis*) are effective biomonitors of environmental pollutant exposure. Environmental Monitoring and Assessment, 194, 670 (2022). And (2) Pramuk, J. F. Koontz, M. Tirhi, S. Zeigler, K. Schwartz, and P. Miller (eds.) 2013. The Western Pond Turtle in Washington: A Population and Habitat Viability Assessment. IUCN/SSC Conservation Breeding Specialist Group, Apple Valley, MN.

Past employment (2011 -2017): Vice President of Field Conservation, Woodland Park Zoo (WPZ), Seattle, Washington. WPZ collaborates with WDFW on several wildlife projects. Grants received while employed with WPZ: (1) WPZ Project Lead, \$20,000 awarded in 2015-2016 from Wilburforce Foundation to conduct the “Washington Wildlife Leaders Forum,” a conference of 50 leaders who strategized on methods for wildlife agency reform in Washington state, especially aimed at improving non-game wildlife conservation. (2) Various individual donor and Wilburforce Foundation grants awarded to WPZ, 2013-2017, totaling about \$100,000 to establish and fund WPZ’s “Living Northwest,” a field research and conservation program focused on Washington state wildlife.

Community service: Since moving to Washington state in 2011, community participation relevant to wildlife and WDFW included leading the Biodiversity Task Force of the Central Puget Sound Regional Open Space Strategy (ROSS) in 2015, and serving on Forterra’s Central Puget Sound Leadership Council, 2015-2017.

### **CM Papouchis**

Papouchis’ work was cited by the WDFW Team and reviewed in this document as follow:

Laundre, J. & C. Papouchis. 2020. The Elephant in the room: What can we learn from California regarding the use of sport hunting of pumas (*Puma concolor*) as a management tool? *PloS One* 15(2): e0224638.

### **Employment (since 2001)**

Lecturer, Environmental Studies department, California State University, Sacramento, 2011-2022; Adjunct Professor, Natural Resources department, American River College, Sacramento, California, 2008-2022; Managing Editor, Wild Felid Monitor, Wild Felid Research and Management Association, 2007-2013. Conservation biologist, The Mountain Lion Foundation, Sacramento, California, 2001-2007

### **Paid service as consultant (nominal fee <\$5000 or expenses only)**

The Cougar Fund (2008) – drafted comments on WDFW *Draft Supplemental Environmental Impact Statement, 2009 – 2013 Game Management Plan*; Humane Society of the United States (2013)

### **Unpaid service as an advisor/consultant**

The Cougar Fund (2012-2014); California Department of Fish and Wildlife (2014).

### **Memberships and Professional service (unpaid)**

Governing Council, Wild Felid Research and Management Association, 2006-2018  
Member, Wild Felid Research and Management Association, 2007-present

Member, Implementation Science Team for the recovery of Sierra Nevada bighorn sheep, USFWS, 2011-present  
Peer reviewer for the Journal of Wildlife Management; International Journal of Biodiversity and Conservation

#### Relevant Publications and Reports

**Papouchis, C.M.** 2007. Pumas and people. Pages 1150-1153 in M. Bekoff, ed. *Encyclopedia of Human-Animal Relationships: A Global Exploration of Our Connections with Animals*. Greenwood Press, London.

**Papouchis, C.M.** 2007. Human-caused mortality of mountain lions in the American West. Mountain Lion Foundation, Sacramento, California.

**Papouchis, C.M.** 2006. Living with lions: does sport hunting reduce conflicts with humans? Mountain Lion Foundation, Sacramento, California.

**Papouchis, C.M.** 2005. Non-lethal approaches for reducing conflicts between mountain lions and people. Mountain Lion Foundation, Sacramento, California.

**Papouchis, C.M.** 2004. Conserving mountain lions in a changing landscape. Chapter 11 in N. Fascione, A. Delach, and M. Smith, eds. *Predators and People: From Conflict to Conservation*. Island Press, Washington, D.C.

#### RELEVANT PAPERS PRESENTED AT PROFESSIONAL CONFERENCES

Sweanor, L., J. Beecham, C. Belden, D. Dawn, R. DeSimone, G. Koehler, S. Negri, **C.M. Papouchis**, H. Robinson, and R. Thompson. 2008. Formation of a professional organization: the Wild Felid Research and Management Association. *Ninth Mountain Lion Workshop*, Idaho Fish and Game, Sun Valley, ID (May).

**Papouchis, C.M.** 2006. Conflict, controversy and conservation: humans and mountain lions in the western U.S. *Carnivores 2006*, Defenders of Wildlife, St. Petersburg, FL (Nov).

**Papouchis, C.M.** and E.M Cunnison. 2006. People and mountain lions: strategies for coexistence. *Carnivores 2006*. Defenders of Wildlife, St. Petersburg, FL (Nov).

**Papouchis, C.M.**, R.A. Hopkins, and D.D. Dawn. 2005. A new paradigm for managing mountain lions in the 21<sup>st</sup> Century. *Eighth Mountain Lion Workshop*, Leavenworth, WA (May).

**Papouchis, C.M.** and T. Dunbar. 2004. Human-caused mountain lion mortality in the western U.S., 1997-2004. *Carnivores 2004*, Defenders of Wildlife, Santa Fe, NM (Nov).

Hopkins, R.A. and **C.M. Papouchis**. 2004. A new paradigm for cougar conservation in the 21st Century: Distinguishing myth from science. *Carnivores 2004*. Defenders of Wildlife, Santa Fe, NM (Nov).

**Papouchis, C.M.** and J.D. Wehausen. 2004. Desert bighorn sheep and mountain lions: confronting the challenges. *Desert Bighorn Council Meeting*. St. George, UT.

**Papouchis, C.M.** 2004. Mountain lion conservation in a changing landscape. *Western Section of the Wildlife Society Conference*. Rohnert Park, CA (Feb).

**Papouchis, C.M.** 2003. Conserving mountain lions in a changing sociopolitical landscape *7th Biennial Conference on Research on the Colorado Plateau*. USGS - Biological Resources Division. Flagstaff, AZ (Nov).

**Papouchis, C.M.** and M. Cullens. 2003. Community-based conservation of mountain lions. *10<sup>th</sup> Annual Conference of the Wildlife Society*. Burlington, VT (Sept).

**Papouchis, C.M.** 2003. Mountain lions and bighorn sheep. *10<sup>th</sup> Annual Conference of the Wildlife Society*. Burlington, VT (Sept).

**Papouchis, C.M.** and L.M Cullens. 2003. Improving our understanding of mountain lion management trends: the value of consistent multi-state recordkeeping. *Seventh Mountain Lion Workshop*. Jackson, WY. (May).

**Papouchis, C.M.** and J.D. Wehausen. 2002. Conserving mountain lions and bighorn sheep: challenges to resolving an apparent disequilibrium. *Carnivores 2002*, Defenders of Wildlife, Monterrey, CA. (Nov).

Cullens, L.M. and **C.M. Papouchis**. 2002. Conserving mountain lions in California - a collaborative approach (poster). *9th Annual Conference of the Wildlife Society*, Bismarck, ND (Sept).

**Papouchis, C.M.** and L.M. Cullens. 2002. After the hunt: challenges facing California's Mountain Lion Population. (poster). *82<sup>nd</sup> Annual Meeting of the American Society of Mammalogists*, St. George, LA (June).

### INVITED PRESENTATIONS, LECTURES AND WORKSHOPS

Marin Humane Society. Novato, CA. September 21, 2010. *Mountain Lions - Saving California's last great predator*

Golden Gate Audubon's monthly Speaker Series. San Francisco Botanical Garden, San Francisco, CA, November 17, 2006. *Saving the mountain lion*.

Pacific Grove Museum of Natural History, Pacific Grove, CA, July 7, 2004. *Co-existing with mountain lions*.

Living with Carnivores forums. Sponsored by the Northcoast Environmental Center and Defenders of Wildlife, Garberville Civic Center and Eureka Community Center, CA, November 17 and 18, 2003. *Co-existing with mountain lions*.

Point Reyes National Seashore Association Field Seminars, Pt. Reyes National Seashore, CA, February 2003. *Mountain lion ecology, management and conservation*.

U.C. Davis, Department of Veterinary Medicine, Graduate seminar in Conservation Biology and Veterinary Medicine Lecture, Davis, CA, January 30, 2003. *Puma conservation in California*.

San Bernardino Community Forum, University of California, San Bernardino, October 23, 2002. *Living with mountain lions*.

U.C. Davis, Graduate Group in Ecology, graduate seminar in Conservation Biology, Davis, CA, October 2002, *Mountain lion conservation and management*.

Point Reyes National Seashore Association Field Seminars, Pt. Reyes National Seashore, CA, February 2002. *Mountain lion ecology and conservation*.

Co-existing with Native Predators Forum, Marin Humane Society, Novato, CA, September 30, 2001. *Co-existing with native carnivores: Living with our wild neighbors*

San Ramon-Dublin community forum on coyotes. Dublin Community Center, Dublin, CA, July 10, 2000. *Living with coyotes*

Motherlode Chapter of the Sierra Club, Lodi, CA, February 2, 2000. *Coyote ecology and the nonlethal resolution of conflicts with livestock*.

San Mateo Coyote Management Forum, Junipero Serra County Park, San Bruno, CA, July 20, 1999. *Preventative non-lethal methods to stem potential conflicts between coyotes and humans on the San Francisco Peninsula*

**ORGANIZATION/MODERATING OF SESSIONS AND WORKSHOPS AT PROFESSIONAL CONFERENCES**

Organized and moderated panel discussion, *Mountain lions, People and Policy: Improving our prospects for effective conservation of a keystone predator*, Carnivores 2009 Conference. Defenders of Wildlife, Denver, CO. (November 2009).

Organized and chaired session, *Mountain lions: Attitudes and Management*, Carnivores 2009 Conference. Defenders of Wildlife. Denver, CO. (November 2009).

Organized and chaired sessions, *Mountain Lion Ecology*, *Mountain Lion Conservation*, and *Living with Lions*, Carnivores 2006 Conference, Defenders of Wildlife. St. Petersburg, FL (November 2006).

Chaired session, *Political Influences of Mountain Lion Management*, Eighth Mountain Lion Workshop, Washington Department of Fish & Wildlife, Leavenworth, WA. (May 2005).

Organized three sessions on mountain lion conservation, Carnivores 2004 Conference, Defenders of Wildlife, Santa Fe, NM. (November 2004).

Organized and chaired session, *Mountain Lion Conservation*, The Seventh Mountain Lion Workshop, Wyoming Game & Fish, Jackson, WY. (May 2003).

Organized and chaired sessions, *Mountain Lion Conservation and Management*, *Mountain lion Conservation: Managing Change*, and *Cougars, Cores and Corridors*. Carnivores 2002 Conference, Defenders of Wildlife, Monterrey, CA. (November 2002).