

Paul Beier

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Education

Ph.D. (Wildland Resource Science), 1988, University of California, Berkeley.
 M.S. (Wildland Resource Science), 1985, U.C. Berkeley.
 B.A. (Philosophy) 1973. Catholic University of America, Washington D.C.

Employment History

Professor, Conservation Biology and Wildlife Ecology, Northern Arizona University, School of Forestry. May 1992-present. (Assistant Professor, May 1992-August 1997; Associate Professor, September 1997-August 2002; Professor August 2002 to present).
 Project Leader. August 1988-February 1993, Santa Ana Mountains Cougar Study.

Professional Societies

Society for Conservation Biology (See *Related Activities* for details)
 The Wildlife Society (Certified Wildlife Biologist)
 American Society of Mammalogists

Peer-Refereed Publications (since 1990)

Most papers can be downloaded from <http://oak.ucc.nau.edu/pb1/>

- Pope, TL, WM Block, and P Beier. In review. Prescribed fire effects on wintering, bark-foraging birds in northern Arizona. *Journal of Wildlife Management*.
- Bayless, TA, and P Beier. *In review*. Occurrence and habitat characteristics of burrowing owl nests in Gunnison's prairie dog colonies of northeastern Arizona. *Southwestern Naturalist*.
- Trapp, JR, P Beier, C Mack, DR Parsons, and PC Paquet. *In Review*. Wolf den site selection in the northern Rocky Mountains. *Canadian Field-Naturalist*.
- McRae, BH, and P Beier. 2007. Circuit theory predicts gene flow in plant and animal populations. *Proceedings National Academy of Sciences* 104:19885-19890.
- Beier, P, D Majka, and W Spencer. 2008. Forks in the road: choices in procedures for designing wildlife linkages. *Conservation Biology*: in press.
- Beier, P, EC Rogan, MF Ingraldi, and SS Rosenstock. 2008. Does forest structure affect reproduction of northern goshawks in ponderosa pine forests? *Journal of Applied Ecology*: in press.
- Rosalino, LM, MJ Santos, P. Beier, and M Santos-Reis. 2007. Eurasian badger habitat selection in Mediterranean environments: does scale really matter? *Mammalian Biology*: in press.
- Waskiewicz, JD, PZ Fulé, and P Beier. 2007. Comparing classification systems for ponderosa pine snags in northern Arizona. *Western Journal of Applied Forestry*: 22(4):233-240.
- Wightman, CS, SS Germaine, and P Beier. 2007. Landbird community composition varies among seasons in a heterogeneous ponderosa pine forest. *Journal of Field Ornithology* 78(2):184-194.
- Dickson, BG, and P Beier. 2007. Quantifying the influence of topographic position on cougar movement in southern California USA. *Journal of Zoology (London)* 271:270-277.

- Beier, P, and AI Tungbani. 2006. Nesting with wasps increases nest success of the Red-cheeked Cordon-Bleu. *The Auk* 123:1022-1037.
- Noss, RF, P Beier, WW Covington, RE Grumbine, DB Lindenmayer, JW Prather, F Schmiegelow, TD Sisk, and DJ Vosick. 2006. Recommendations for integrating restoration ecology and conservation biology in ponderosa pine forests of the Southwestern United States. *Ecological Restoration* 14:4-10.
- Beier, P., MR Vaughan, MJ Conroy, and H Quigley. 2006. Evaluating scientific inferences about the Florida Panther. *Journal of Wildlife Management* 70:236-245.
- Conroy, MJ, P Beier, H Quigley, and MR Vaughan. 2006. Improving the use of science in conservation: lessons from the Florida panther. *Journal of Wildlife Management* 70:1-7
- Boyce, DA, Jr, PL Kennedy, P Beier, MF Ingraldi, SR MacVean, MS Siders, JR Squires, and B Woodbridge. 2005. When are goshawks not there? Is a single visit enough to infer absence? *Journal of Raptor Research* 39:285-291.
- McRae, BH, P Beier, LE DeWald, LY Huynh, and P Keim. 2005. Habitat barriers limit gene flow and illuminate historical events in a wide-ranging carnivore. *Molecular Ecology* 14:1965-1977.
- Adjewodah, P, P Beier, MK Sam, and JJ Mason. 2005. Elephant crop damage in the Red Volta Valley, northeastern Ghana. *Pachyderm* 38:39-48.
- Griffis-Kyle, KL, and P Beier. 2005. Migratory strategy and seasonal patterns of bird diversity in relation to forest habitat. *American Midland Naturalist* 153:436-443.
- Dickson, BG, JS Jenness, and P Beier. 2005. Influence of vegetation, topography, and roads on cougar movement in southern California. *Journal of Wildlife Management* 69:264-276.
- Jenness, JS, P Beier, and JL Ganey. 2004. Associations between forest fire and Mexican spotted owls. *Forest Science* 50:765-772.
- Czech, B, E Allen, D Batker, P Beier, H Daly, J Erickson, P Garrettson, V Geist, J Gowdy, L Greenwalt, H Hands, P Krausman, P Magee, C Miller, K Novak, G Pullis, C Robinson, J Santa-Barbara, J Teer, D Trauger, and C Willer. 2003. The iron triangle: why The Wildlife Society needs to take a position on economic growth. *Wildlife Society Bulletin* 31:574-577.
- Grigione, MM, P Beier, RA Hopkins, D Neal, WD Padley, CM Schonewald and M Johnson. 2003. Ecological and allometric determinants of home-range size for mountain lions (*Puma concolor*). *Animal Conservation* 5:317-324.
- Drennan, JE, and P Beier. 2003. Winter foraging habitat of northern goshawks. *Journal of Wildlife Management* 67:177-185.
- Griffis-Kyle, KL, and P Beier. 2003. Small isolated aspen stands enrich bird communities in Southwestern ponderosa pine forests. *Biological Conservation* 110:375-385.
- Dickson, BG, and P Beier. 2002. Home range and habitat selection by adult cougars in southern California. *Journal of Wildlife Management* 66:1235-1245.
- Beier, P, M van Drielen, and BO Kankam. 2002. Avifaunal collapse in West African forest fragments. *Conservation Biology* 16:1097-1111.
- Delaney, DK, TG Grubb, P Beier, LL Pater, and MH Reiser. 1999. Effects of helicopter noise on Mexican spotted owls. *Journal of Wildlife Management* 63:60-76.
- Delaney, DK, TG Grubb, P Beier, LL Pater, and MH Reiser. 1999. Activity patterns of nesting Mexican spotted owls. *Condor* 101:42-49.
- Beier, P, and RF Noss. 1998. Do habitat corridors provide connectivity? *Conservation Biology* 12:1241-1252.
- Drennan, JE, P Beier, and N Dodd. 1998. Use of track stations to index abundance of sciurids. *Journal of Mammalogy* 79:352-359.
- Beier, P, and JE Drennan. 1997. Vegetation structure and prey abundance in foraging areas of northern goshawks. *Ecological Applications* 7:564-571.
- Beier, P, and SC Cunningham. 1996. Power of track surveys to detect changes in cougar populations. *Wildlife Society Bulletin* 24:540-546.

- Beier, P. 1995. Dispersal of juvenile cougars in fragmented habitat. *J. Wildlife Management* 59:228-237.
- Beier, P, D Choate, and RH Barrett. 1995. Activity patterns of cougars during different behaviors. *J. Mammalogy* 76:1056-1070.
- Beier, P. 1993. Determining minimum habitat areas and corridors for cougars. *Conservation Biology* 7:94-108.
- Beier, P. 1993. PUMA: A population simulator. *Wildlife Society Bulletin* 21(1):356-357.
- Beier, P, and S Loe. 1992. A checklist for evaluating impacts to wildlife movement corridors. *Wildlife Society Bulletin* 20:434-440.
- Beier, P. 1991. Cougar attacks on humans in the United States and Canada, 1890-1990. *Wildlife Society Bulletin* 19:403-412.
- Beier, P, and DR McCullough. 1990. Factors influencing activity patterns and habitat use by white-tailed deer. *Wildlife Monograph* 109: 51pp.

Other Publications

- Beier, P. 2008. Learning like a mountain. *The Wildlife Professional*: in press
- Beier, P. 2007. Cougars, connectivity, & missing linkages: two decades of expanding vision & partnerships (keynote address). Proceedings of the Western Section of The Wildlife Society 2007 Annual Meeting, Monterey CA. in press.
- Beier, P, SPD Riley, and RM Sauvajot. 2009. Mountain lions. In S Gerht, S Riley, and B Cypher, editors, *Urban Carnivores*. Johns Hopkins University Press.
- Beier, P. 2009. Cougars and conservation planning. Chapter in M. Hornocker and S. Negri, editors, *The cougar: ecology and conservation*. University of Chicago Press.
- Cougar Management Guidelines Working Group. 2005. *Cougar Management Guidelines*, First Edition. Wild Futures, Bainbridge Island, Washington. 137 pp. (13 authors)
- Beier, P. 2005. Being ethical as conservation biologists and as a society. (Invited Editorial). *Conservation Biology* 19:1-2.
- Beier, P, K Penrod, C Luke, W Spencer, and C Cabañero. 2006. South Coast Missing Linkages: restoring connectivity to wildlands in the largest metropolitan area in the United States. Pages 555-586 In KR. Crooks and MA Sanjayan, editors, *Connectivity conservation*, Cambridge University Press.
- Beier, P. 2006. Effects of artificial night lighting on terrestrial mammals. Pages 19-42 In C. Rich and T. Longcore, editors, *Ecological consequences of artificial night lighting*. Island Press, Covelo, California.
- Adjewodah, P, and P Beier. 2004. Working with traditional authorities to conserve nature in West Africa . *African Conservation Telegraph* 1 (on-line).
- Beier, P, and J Maschinski. 2003. Threatened, endangered, and sensitive species. Pages 306-327 In P Friederici, editor. *Ecological restoration of southwestern ponderosa pine forests*. Island Press.
- Beier, P., M. R. Vaughan, M. J. Conroy, and H. Quigley. 2003. An analysis of scientific literature related to the Florida panther. Report to Florida Fish and Wildlife Conservation Commission and US Fish and Wildlife Service. 211 pages, including an annotated bibliography.
- Noss, RF, and P Beier. 2000. Arguing over little things: response to Haddad et al. *Conservation Biology* 14:1546-1648.
- Beier, P. 1999. Cougar. Pages 226-228 In DE Wilson and S Ruff, *Smithsonian book of North American mammals*. Smithsonian Institution Press, Washington. (Invited contribution). This was one of 40 books that the American Library Association voted as one of their "Best of the Best Books" for 1999-2000.

Beier, P. 1996. Metapopulation modeling, tenacious tracking, and cougar conservation. Pages 293-323 in D. R. McCullough, ed., *Metapopulations and wildlife management*. Island Press. This book won The Wildlife Society's Award for "Best-edited Book of 1996."

Related Activities

Fulbright Scholar, African Regional Research Program, 1999-2000 (12 months).

Fulbright Scholar, African Regional Research Program, 2006-2007 (5 months).

Recovery Team Member for the ocelot, *Felis pardalis*, 2003 thru 2007.

Board of Governors, Society for Conservation Biology, 2002-2008. Board member 2002-2005, Secretary 2005-2008. I chaired the ad-hoc committee to develop SCB's first Code of Ethics, and the ad-hoc committee to oversee the initial SCB efforts to offset its impact on greenhouse gasses. Conservation Chair of Colorado Plateau Chapter (November 2001-September 2005)

Member, Science Committee of the Western Governors Association's *Wildlife Corridors Initiative*, a multi-state effort to improve management for wildlife corridors and crucial habitat, Sept 2007-Sept 2008

Founding Member, Member of the Board of Directors, & Science Advisor for South Coast Wildlands, 2000-present. SCW Goal: to restore connectivity to southern California.

Member, Arizona Wildlife Linkage Workgroup (since 2004). AWLW is a collaboration among Arizona Game and Fish Department, Arizona Department of Transportation, Federal Highways Administration, US Forest Service, Bureau of Land Management, and others to maintain and restore connectivity among wildlands throughout Arizona.

Fellow, Aldo Leopold Leadership Program (2005). This program trains 20 Fellows per year to become effective environmental leaders by developing skills in collaboration, communicating with the media, and developing relationships with members of Congress.

Scientific Review of Habitat Conservation Plan for eastern San Diego County (2005-2007). This panel is conducting an independent review of what is a Habitat Conservation Plan with the largest geographic extent of any HCP.

Member, Science Advisory Board, Nature Conservation Research Centre, Ghana, 1998-present. This NGO specializes in community-based conservation activities in Ghana. I am actively involved in the creation and management of a community-based sanctuary for hippopotamus in northern Ghana.

Science Advisory Council, Grand Canyon Trust, 2000-2002. The GCT is the leading conservation NGO in the southwestern US.

Chair, Scientific Review Team, Florida Panther (May 2002-Dec 2003). Commissioned by the US Fish & Wildlife Service and the Florida Wildlife Conservation Commission to evaluate scientific issues related to the endangered Florida panther.

Scientific Review of Habitat Conservation Plan for northern San Diego County (2001). This panel of 8 conservation scientists conducted an independent review of this major conservation effort.

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