

**John F. Benson, Ph.D.**

Assistant Professor of Vertebrate Ecology  
School of Natural Resources  
University of Nebraska  
Lincoln, NE 68583-0961  
jbenenson22@unl.edu

<https://scholar.google.com/citations?user=lq4fh3UAAAAJ&hl=en>

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**EDUCATION**

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**PhD**, Ecology and Conservation Biology, May 2013

Trent University, Peterborough, ON, Canada      GPA: A+

Dissertation: Hybridization Dynamics between Wolves and Coyotes

**Master of Science**, Wildlife Ecology, May 2005

Louisiana State University, Baton Rouge, LA      GPA: 4.0

Thesis: Ecology and Conservation of Louisiana Black Bears in the Tensas River Basin and Reintroduced Populations

**Bachelor of Science**, Wildlife, May 2001

Humboldt State University, Arcata, CA      GPA: 3.97

Thesis: Use of Cover Types by Sierra Nevada Red Fox in the Southern Cascade Range

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**PROFESSIONAL EXPERIENCE**

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**Assistant Professor of Vertebrate Ecology** – January 2017 – current

School of Natural Resources, Applied Ecology Mission Area  
University of Nebraska, Lincoln, NE

**Adjunct Graduate Professor** -- July 2017 -- current

Trent University, Environmental & Life Sciences Graduate Program  
Peterborough, ON Canada

**Fellow of the Center for Great Plains Studies** – 4/17 -- current

**Postdoctoral Research Fellow** – July 2016 – Dec 2016

Monterey Bay Aquarium, Conservation & Science, Monterey, CA  
Stanford University, Biology Department, Hopkins Marine Center, Pacific Grove, CA

- I am developing models to estimate abundance & population growth of white sharks
- I am developing dynamic movement models for pelagic marine predators
- I identified and tagged white sharks from small boats on the Pacific Ocean

**La Kretz Center for California Conservation Postdoctoral Fellow** -- Sep 2014 – July 2016

La Kretz Center for California Conservation Science  
Institute of the Environment & Sustainability, University of California, Los Angeles, CA

## John F. Benson C.V.

- I developed a PVA for pumas relative to inbreeding and landscape dynamics
- I modeled movement and resource selection of pumas along an urban-wildland gradient
- I studied population and spatial dynamics of bobcats relative to urbanization

### **Principal Investigator, Predator-Prey Research** -- May 2013 – June 2014

Division of Wildlife Conservation, Alaska Department of Fish & Game, Fairbanks, AK

- Project leader for predator-prey dynamics between moose and their predators.
- I estimated moose, bear, and wolf population size, survival, and reproductive parameters
- I designed and led field studies, managed budgets (>\$160K per annum), analyzed data
- I captured moose and bears via helicopter darting or netgunning, conducted browse surveys

### **Graduate Research Assistant** -- September 2007 – April 2013

Trent University, Peterborough, Ontario, Canada

- I supervised all field operations, analyzed data, published results
- I played lead role in study design and contributed to securing funding through grant writing
- I captured wolves, coyotes, hybrids, visited dens, investigated kills, sampled DNA
- I supervised >30 technicians, coordinated w/ agencies, media relations, extensive outreach

### **Biological Scientist, Panther Research** -- July 2005 – April 2007

Florida Fish & Wildlife Conservation Commission,  
Fish & Wildlife Research Institute, Naples, FL

- Panther research: study design, fieldwork, data analysis, manuscript publication
- Collaborated with multiple federal agencies (NPS, USFWS) and universities
- Panther capture, aerial and ground monitoring, den work

### **Graduate Research Assistant** -- June 2002 – April 2005

School of Renewable Natural Resources, Louisiana State University, Baton Rouge, LA

- I was lead graduate student in charge of fieldwork, data analysis, and manuscript publication
- Bear captures (culverts, snares, darting), tree climbing, den work, telemetry
- Media relations, coordinated w/ state, federal, private agencies, supervised >12 technicians

## **PEER REVIEWED PUBLICATIONS (30)**

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**Benson, J.F.**, Jorgensen, S.J., J.B. O'Sullivan, Winkler, C., White, C., Garcia-Rodriguez, E., Sosa-Nishizaki, O Lowe, C.G. 2018. Juvenile survival, competing risks, and spatial variation in mortality risk of a marine apex predator. *Journal of Applied Ecology*. *In press*.

**Benson, J.F.**, Loveless, K.M., Rutledge, L.Y., Patterson, B.R. 2017. Ungulate predation and ecological roles of wolves and coyotes in eastern North America. *Ecological Applications* 27:718-733 (*Cover Article*).

McLaren, A.A., **Benson J.F.**, Patterson B.R. 2017. Multi-scale habitat selection by cow moose (*Alces alces*) at calving sites in central Ontario. *Canadian Journal of Zoology* 95:891-899.

## John F. Benson C.V.

**Benson, J.F.**, Mahoney, P.J., Sikich, J.A., Serieys, L.E.K., Pollinger, J.P., Ernest, H.B., Riley, S.P.D. 2016. Demographic, genetic, and landscape interactions threaten viability of a large carnivore in a major metropolitan area. *Proceedings of the Royal Society B* 283 (Cover Article)

**Benson, J.F.**, Sikich, J.A., Riley, S.P.D. 2016. Population and individual-level resource selection patterns of mountain lions preying on mule deer along an urban-wildland gradient. *PLOS-One* 11.

Little, A.R., **Benson, J.F.**, Chamberlain, M.J. Conner, L.M., Warren, R.J. 2016. Survival and cause-specific mortality of female Eastern wild turkeys in 2 longleaf pine savannas. *Wildlife Biology* 22:238-245.

Patterson, B.R., Mills, K.J., Middel, K.R., **Benson, J.F.**, Obbard, M.E. 2016. Influence of predation on seasonal and diel timing of moose calving in Ontario. *PLOS-One* 11.

**Benson, J.F.**, Mahoney, P.J., Patterson, B.R. 2015. Spatiotemporal variation in selection of roads influences mortality risk for canids in an unprotected landscape. *Oikos* 124:1164-1173.

**Benson, J.F.**, Mills, K.J., Patterson, B.R. 2015. Resource selection by wolves at dens and rendezvous-sites in Algonquin Park, Canada. *Biological Conservation* 182:223-232.

**Benson, J.F.**, and B.R. Patterson. 2015. Spatial overlap, proximity, and habitat-use by individual wolves within the same packs. *Wildlife Society Bulletin* 39:31-40

**Benson, J.F.**, Patterson, B.R., Mahoney, P.J. 2014. A protected area influences genotype-specific survival and the structure of a *Canis* hybrid zone. *Ecology* 95:254-264. (Cover Article).

Gardner, C.L., Pamperin, N.J., **Benson, J.F.** 2014. Movement patterns and space use of maternal grizzly bears influence cub survival in Interior Alaska. *Ursus* 25:121-138.

**Benson, J.F.** 2013. Improving rigor and efficiency of use-availability habitat selection analyses with systematic estimation of availability. *Methods in Ecology and Evolution* 4:244-251.

**Benson, J.F.**, Patterson, B.R. 2013. Inter-specific territoriality in a *Canis* hybrid zone: spatial segregation between wolves, coyotes, and hybrids. *Oecologia* 173:1539-1550.

**Benson, J.F.**, Mills, K.J., Loveless, K.M., Patterson, B.R. 2013. Genetic and environmental influences on pup mortality risk for wolves and coyotes within a *Canis* hybrid zone. *Biological Conservation* 166:133-141.

**Benson, J.F.**, Patterson, B.R. 2013. Moose predation by eastern coyotes and coyote × wolf hybrids. *Canadian Journal of Zoology*. 91:837-841.

Patterson, B.R., **Benson, J.F.**, Middel, K.R., Mills, K.J. Obbard, M.E. 2013. Moose-calf mortality in central Ontario, Canada. *Journal of Wildlife Management* 77: 832-841.

**John F. Benson C.V.**

**Benson, J.F.**, Patterson, B.R., Wheeldon, T.J. 2012. Spatial genetic and morphologic structure of wolves and coyotes in relation to environmental heterogeneity in a *Canis* hybrid zone. *Molecular Ecology* 21:5934-5954.

**Benson, J.F.**, Lotz, M.A., Land, E.D., Onarato, D.P. 2012. Evolutionary and practical implications of pseudo-estrus behavior in Florida panthers (*Puma concolor coryi*). *Southeastern Naturalist* 11:149-154.

Murray, D.L, Hussey, K., Finnegan, L., Lowe, S., Price, G., **Benson, J.F.** et al. 2012. Assessment of status and viability of a moose population at the southern range limit in Ontario. *Canadian Journal of Zoology* 90:422-434.

**Benson, J.F.**, Hostetler, J.H., Onorato, D., Johnson, W.E., Roelke, M., O'Brien, S.J., Jansen, D., Oli, M.K. 2011. Intentional genetic introgression influences survival of adults and sub-adults in a small, inbred felid population. *Journal of Animal Ecology* 80:958-966. (Cover Article)

**Benson, J.F.**, Lotz, M.A., Jansen, D. 2008. Natal den selection by Florida panthers. *Journal of Wildlife Management* 72:405-410.

Land E.D., Shindle, D.B., Kawula, R., **Benson, J.F.**, Lotz, M.A., Onorato, D.P. 2008. Florida panther habitat selection analyses of concurrent GPS and VHF telemetry data. *Journal of Wildlife Management* 72:633-639.

**Benson, J.F.**, Chamberlain, M.J. 2007. Space use, movements, survival, and reproduction of reintroduced female Louisiana black bears. *Journal of Wildlife Management* 71:2393-2403.

**Benson, J.F.**, Chamberlain, M.J. 2007. Space use and habitat selection of female Louisiana black bears in the Tensas River Basin of Louisiana. *Journal of Wildlife Management* 71:117-126.

**Benson, J.F.**, Chamberlain, M.J., Leopold, B.D. 2006. Regulation of space use in a solitary felid: population density or prey availability? *Animal Behaviour* 71:685-693.

**Benson, J.F.**, Chamberlain, M.J. 2006. Cub adoption by a translocated female Louisiana black bear. *Ursus* 17:178-181.

**Benson, J.F.**, Chamberlain, M.J. 2006. Food habits of Louisiana black bears (*Ursus americanus luteolus*) in 2 subpopulations of the Tensas River Basin. *American Midland Naturalist* 156:118-127.

**Benson, J.F.**, Perrine, J.D., Golightly Jr., R.T., Barrett, R.H. 2005. Use of cover and response to cover type edges by female Sierra Nevada red foxes in winter. *Western North American Naturalist* 65:127-130.

**Benson, J.F.**, Chamberlain, M.J., Leopold, B.D. 2004. Land tenure and occupation of vacant home ranges by bobcats (*Lynx rufus*). *Journal of Mammalogy* 85:983-988.

## MANUSCRIPTS IN REVIEW

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**Benson, J.F.**, Mahoney, P.J., Wickers, T. W. et al. Extinction vortex dynamics of top predators isolated by urbanization. *Ecological Applications*. Revised manuscript in review.

## MANUSCRIPTS IN PREPARATION

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Patterson, B.R., **Benson, J.F.**, Mills K.M., Loveless, Murray, D.L. Eastern wolf dispersal from Algonquin Provincial Park, Ontario: implications for population expansion in surrounding areas. (Undergoing final revisions prior to submission, intended for *Biological Conservation*).

Cherry, M.J., Smith, J.A., **Benson, J.F.** (*first 3 authors contributing equally*) et al. Restoration of large carnivores in North America: what have we done well, what can we do better? Intended for *Frontiers in Ecology & the Environment* (drafting ms).

**Benson, J.F.**, Found, R., B.R. Patterson. Diet patterns and niche overlap between wolves and coyotes in 3-species hybrid zone. Intended for *Ecology* (analysis complete, drafting ms)

**Benson, J.F.**, Mahoney, P.J. et al. Evaluation of techniques for reducing extinction risk in small, isolated populations. Intended for *Conservation Letters* (modeling completed, drafting ms)

## POPULAR SCIENCE PUBLICATIONS

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**Benson, J.F.** 2013. A Hybrid's Tale. In *Wild Wolves We Have Known*. D. Thiel and A. Thiel (Editors). International Wolf Center, Ely, MN, USA. (Book Chapter).

## TEACHING EXPERIENCE

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### University Course Instructor/Designer

University of Nebraska

BIOS/NRES 386: *Vertebrate Zoology*

Univ. of California – Los Angeles, Dept. of Ecology and Evolutionary Biology

EEB 297 (graduate seminar): *Analysis and Modeling for Wildlife Ecology*

EEB 297 (graduate seminar): *Predator-Prey Dynamics*

### Workshop Developer & Teacher --- *Known-fate Survival & Competing Risks Modeling in R*

- 1) Technical workshop for 30 students at Wildlife Society Conference (Oct. 2015)
  - 2) Contracted by Colorado Parks & Wildlife to teach technical workshop (Feb. 2016)
- I co-designed & co-taught this workshop with one other person

## John F. Benson C.V.

**Graduate Teaching Assistant** --- Environmental Science Program, Trent University  
ERSC 1010H: Introduction to Environmental Science-Global Issues  
ERSC 1020H: Introduction to Environmental Science-Canadian Issues

- Teaching assistant for 6 semesters (September 2007-April 2011)

### GRADUATE STUDENTS ADVISED

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1. *Kathryn Allen*, 2017- current (M.S., University of Nebraska - Lincoln)
2. *Erin Wood*, 2017- current (M.S., University of Nebraska - Lincoln)
3. *David Keiter*, 2018 – current (Ph.D., University of Nebraska - Lincoln)
4. *Rafael Campos*, 2017 – current (M.S., co-advised at CIBIO-inBIO, Research Center in Biodiversity and Genetic Resources, University of Porto, Porto, Portugal)
5. *Maria Petridou*, 2018 – current (Ph.D., co-advised at Department of Biological Applications and Technology, University of Ioannina, Greece)

### COMPETITIVE GRANTS & RESEARCH FUNDING

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**Benson, J.F.**, Keiter, D.K., Rodgers, A.R., Patterson, B.R. 2018-2020. Evaluating Persistence of an Island Population of Boreal Woodland Caribou in the Presence of Wolves and Alternative Prey. SARRFO Fund Grant (**\$60,000**)

**Benson, J.F.** 2017-2020. Reproductive success, survival, and cause-specific mortality of bighorn sheep in Nebraska. Nebraska Game and Parks Commission (**\$544,000**)

**Benson, J.F.** 2016-2019. Assessment of adult female and neonatal mule deer survival, movements, and habitat use in Nebraska. Nebraska Game and Parks Commission (**\$701,500**)

**Benson, J.F.**, P.J. Mahoney, L.Y. Rutledge, C. Thompson, B.R. Patterson. 2017-2019. A Spatially-Explicit Model of Population Viability and Hybridization Dynamics for Algonquin Wolves Relative to Harvest Management Strategies Outside of Algonquin Park. SARRFO Fund Grant (**\$57,680**)

**Benson, J.F.**, Mahoney, P.J. 2016. Integrated population modeling of mountain lions using age-at-harvest and telemetry data in Nevada. Nevada Department of Wildlife subgrant (**\$10,000**).

**Benson, J.F.** 2014-15. Population viability of mountain lions in the Santa Monica Mountains: demography, genetic variation, and habitat connectivity in a highly fragmented landscape. National Park Service-UCLA La Kretz Center Postdoctoral Research Fellowship (**\$94,000**).

**Benson, J.F.** 2011. Hybridization Dynamics between Wolves and Coyotes in Ontario. Wildlife Conservation Society-Canada/W.Garfield Weston Fellowship (**\$8,170**)

**Benson, J.F.**, D. Murray, B. Patterson. 2010. Survival and Cause-Specific Mortality in and Around Algonquin Provincial Park. OMNR Species at Risk Grant (**\$10,000**)

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**Benson, J.F.**, D. Murray. 2009. Hybridization Dynamics between Eastern Wolves and Coyotes in Central Ontario. World Wildlife Fund SARRFO Fund Grant (**\$40,000**)

D. Onorato, **Benson, J.F (Co-PIs)**. 2006. Habitat Selection of Florida Panthers in Everglades National Park. National Park Service Grant (**\$12,000**)

**Benson J.F.**, M. Chamberlain. 2004. Genetic Relatedness of Louisiana Black Bears in the Tensas River Basin Population. Johnston Science Foundation Grant (**\$5,000**).

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## AWARDS & SCHOLARSHIPS

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**Ph.D. Fellowship in the S.J. & J.E. Quinney College of Natural Resources**, Utah State University, 2007 (**\$80,000**, *declined*)

**Excellence Award for Outstanding M.S. Student**, School of Renewable Natural Resources, Louisiana State University, 2005 (**\$500**)

**Outstanding Undergraduate Wildlife Student of the Year**, Wildlife Department, Humboldt State University, 2001

NSERC Vanier Scholarship Nominee from Trent University 2008, I was nominated as the single Ph.D. student from Trent University to compete in the National Competition.

French-American Scholarship (Merit Based), ENLS, Trent University 2012 (**\$2,500**)

Membership in Phi Kappa Phi Honor Society 1998-2001

Mark P. Bush Scholarship (Merit-based), Wildlife Dept., Humboldt State Univ., 2001 (**\$2000**)

Joan E. Brenson Scholarship (Merit-based), Wildlife Dept, Humboldt State Univ., 2000 (**\$450**)

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## SELECTED CONFERENCE PRESENTATIONS

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**Benson, J.F.**, J.A. Sikich, D. Fraser, R. K. Wayne, H. B. Ernest, S.P.D. Riley. 2017. Too close for comfort? Inbreeding dynamics in a small, isolated mountain lion population. Wildlife Society, Albuquerque, NM (Oral presentation)

**Benson, J.F.**, J.A. Sikich, S.P.D. Riley. 2017. Where do mountain lions kill deer in the greater Los Angeles area? International Urban Wildlife Conference, San Diego, CA (Oral presentation).

**Benson, J.F.**, P.J. Mahoney, J.A. Sikich, L.E.K. Serieys, J. P. Pollinger, H. B. Ernest, S.P.D. Riley. 2017. Interactions between demography, genetics, and landscape connectivity increase extinction probability for a small mountain lion population in a major metropolitan area. 12 Mountain Lion Workshop, Estes Park, CO (Oral presentation)

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**Benson, J.F.**, P.J. Mahoney, J.A. Sikich, L.E.K. Serieys, J. P. Pollinger, H. B. Ernest, S.P.D. Riley. 2016. Interactions between demography, genetics, and landscape connectivity for a small population of large carnivores in a major metropolitan area. Wildlife Society, Raleigh, NC (*Invited* Oral Presentation).

**Benson, J.F.**, K.M., Loveless, L.Y. Rutledge, B.R. Patterson. 2016. Ungulate predation and ecological roles of canid top predators in eastern North America. Wildlife Society, Raleigh, NC (Oral Presentation).

**Benson, J.F.**, P.J. Mahoney, J.A. Sikich, L.E.K. Serieys, J. P. Pollinger, H. B. Ernest, S.P.D. Riley. 2015. Into the vortex: demography and genetics interact to elevate extinction risk for urban top predators. Wildlife Society Colorado Chapter (Oral Presentation).

**Benson, J.F.**, J.A. Sikich, S.P.D. Riley. 2015. Where do mountain lions kill deer along the urban-wildland interface? Predator-Prey Interactions, GRC Conference, Ventura, CA (Poster)

**Benson, J.F.**, P.J. Mahoney, J.A. Sikich, L.E.K. Serieys, J. P. Pollinger, R. K. Wayne H. B. Ernest, S.P.D. Riley. 2015. Synergistic demographic and genetic influences on population viability of mountain lions in a fragmented landscape. Wildlife Society, Winnipeg, MB (Oral Presentation).

**Benson, J.F.**, P.J. Mahoney, J.A. Sikich, L.E.K. Serieys, J. P. Pollinger, R. K. Wayne, H. B. Ernest, S.P.D. Riley. 2015. Modeling population viability and inbreeding dynamics of a small, isolated mountain lion population adjacent to Los Angeles. International Urban Wildlife Conference, Chicago, IL (Oral Presentation).

**Benson, J.F.**, B.R. Patterson. 2014. Hybridization dynamics between wolves and coyotes in Ontario, Canada. International Conference on Hybridization between Wild and Domestic Mammals as Conservation Threat and Opportunity, Grosseto, Italy (*Invited* Oral Presentation, guest of the European Union).

**Benson, J.F.**, B.R. Patterson. 2014. Territoriality and ungulate predation by sympatric eastern coyotes, eastern wolves, and wolf-coyote hybrids. Symposium: Ecology and Management of Coyotes in Eastern North America, Wildlife Society, Pittsburgh, PA (*Invited* Oral Presentation).

**Benson, J.F.**, B.R. Patterson. 2014. Hybridization dynamics between wolves and coyotes in Ontario: implications for recovery of wolves in the Northeastern United States. Northeast Wolf Coalition Conference, Lincoln, MA (*Invited* Oral Presentation).

**Benson, J.F.**, P.J. Mahoney, B.R. Patterson. 2014. Are functional responses to human disturbance adaptive? Spatiotemporal variation in selection of roads influences mortality risk of canids in a 3-species hybrid zone. The Wildlife Society, Pittsburgh, PA (Poster).

**Benson, J.F.**, K.J. Mills, P.J. Mahoney, B.R. Patterson. 2014. Resource selection of canids in central Ontario: behavioral responses to roads and selection of den and rendezvous sites. Mid-West Wolf Stewards Annual Meeting, Sault Ste. Marie, Ontario (via Skype, *Invited*).



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Prugh, L.R., R.D. Boertje, D.D. Young, M.E. McNay, G.L. Gardner, K.A. Kellie, M.A. Keech, P. Valkenburg, C.T. Seaton, **J.F. Benson**. 2014. Escape from the predator pit: 30 years of high wolf and moose densities following wolf control in interior Alaska. Ecological Society of America, Annual Meeting, Sacramento, CA (*Invited* Oral Presentation).

**Benson, J.F.** 2014. Predator-prey dynamics between moose, wolves, and bears in Interior Alaska. Predator-Prey Interactions, GRC Conference, Ventura, CA (Poster).

**Benson, J.F.**, B.R. Patterson. 2013. Interspecific territoriality and spatial segregation in a *Canis* hybrid zone. International Wolf Symposium, Duluth, MN (Oral).

**Benson, J.F.**, B.R. Patterson, T.J. Wheeldon. 2012. Spatial genetic structure, morphology and landscape associations in a *Canis* hybrid zone. The Wildlife Society, Portland, OR, (Oral).

**Benson, J.F.** and B.R. Patterson. 2012. Genotype-specific survival of wolves and coyotes in a 3-species hybrid zone. 2012. American Society of Mammalogists, Reno, Nevada (Oral)

**Benson, J.F.**, T.J. Wheeldon, B.R. Patterson. 2012. Spatial genetic structure, morphology and landscape associations in a *Canis* hybrid zone. Wolf and Carnivore Conference, Thompson, Manitoba, (via Skype, *Invited*).

**Benson, J.F.**, J. H. Hostetler, D P. Onorato, E.D. Land, W. E. Johnson, M. K. Oli. 2009. Influence of genetic introgression on survival and cause-specific mortality of adult and sub-adult Florida panthers. The Wildlife Society, Monterey, California (Oral).

**Benson, J.F.** 2006. Den site selection by female Florida Panthers. American Society of Mammalogists, Amherst, MA. (Oral).

**Benson, J.F.**, M.J. Chamberlain. 2005. Influence of landscape and reproductive status on space use of Louisiana black bears. American Society of Mammalogists, Springfield, MO (Oral).

**Benson, J.F.**, M.J. Chamberlain. 2004. Space-use and movement patterns of reintroduced Louisiana black bears. The Wildlife Society, Calgary, Canada (Oral)

**Benson, J.F.**, M.J. Chamberlain, B.D. Leopold. 2004. Land tenure and home range replacement in bobcats. The Wildlife Society, Calgary, Canada (Poster)

**Benson, J.F.**, M.J. Chamberlain. 2004. Genetic relatedness of Louisiana black bears in the Tensas River basin population. ESOS Conference IX, New Orleans, LA, October, 2004 (Poster).

## SELECTED INVITED UNIVERSITY SEMINARS

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**Benson, J.F.** 2017. Dynamics and Conservation of Small Populations of Large Carnivores. CIBIO-InBIO (Research Institute and Graduate Studies), University of Porto, Portugal.

## John F. Benson C.V.

**Benson, J.F.** 2016. *Wildlife Ecology in a Changing World: Linking Demography, Behavior, Genetics, and Landscapes*. University of Missouri.

**Benson, J.F.** 2016. *Wildlife Ecology for a Changing World: Linking Demography, Behavior, Genetics, and Landscapes*. University of Nebraska-Lincoln.

**Benson, J.F.** 2015. *Wildlife Ecology for a Changing World: Linking Habitat Relationships, Individual Fitness, and Population Dynamics*. Quantitative Wildlife Ecology Seminar, University of California, Davis.

**Benson, J.F.** 2015. *Conservation of Small Populations of Large Mammals*. Education for Sustainable Living Lecture Series, Institute of the Environment and Sustainability, University of California, Los Angeles.

**Benson, J.F.** 2015. *Integrative Wildlife Ecology: Linking Habitat Relationships, Individual Fitness, and Population Dynamics*. Wildlife Ecology Seminar, University of Maine, Orono.

**Benson, J.F., B.R. Patterson.** 2013. *Hybridization Dynamics between Wolves and Coyotes*. Life Sciences Seminar, Institute of Arctic Biology, University of Alaska, Fairbanks.  
*Watch presentation here:* [http://media.iab.uaf.edu/2013-10-18\\_LSSS\\_Benson/2013-10-18\\_LSSS\\_Benson\\_files/play\\_echo360.html](http://media.iab.uaf.edu/2013-10-18_LSSS_Benson/2013-10-18_LSSS_Benson_files/play_echo360.html)

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### SELECTED GUEST LECTURES FOR UNIVERSITY COURSES

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“Hybridization Dynamics between Wolves and Coyotes”, in *Philosophy and Wildlife*, Program for Animal-Human Interactions, University of Redlands, Fall 2017.

“Using Molecular Approaches to Address Questions in Ecology and Conservation” in *Ecology*, Department of Biology, Pepperdine University. Fall 2015.

“Conservation of Large Carnivores in Human-Altered Landscapes” in *Conservation of Biodiversity*, Department of Ecology and Evolutionary Biology, UCLA. Spring 2015.

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### GOVERNMENT REPORTS

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**Benson, J.F.,** and K.M. Loveless. 2010. A Management plan for the Eastern Wolf (*Canis lupus lycaon*) in Canada. *Species at Risk Act* management plan series, contracted by federal government of Canada. SARA responsible agency, Ottawa, Canada.

**Benson, J.F.,** M. Cunningham, D. Land, M. Lotz, and D. Onorato. 2006. Annual Report on the Research and Management of Florida Panthers: 2005-2006. Florida Fish and Wildlife Conservation Commission, Naples, Florida, USA.

**Benson, J.F.,** and D. Onorato. 2006. Effects of Habitat Type and Collar Position on Performance of GPS Radiocollars. Florida Fish and Wildlife Commission, Naples, Florida, USA.

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## SCIENTIFIC SERVICE

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**Regular technical reviewer:** Ecology, Journal of Animal Ecology, Molecular Ecology, Animal Behaviour, Journal of Wildlife Management, Scientific Reports, Journal of Mammalogy, Ecosphere, Biological Conservation, Bioscience, Journal of Heredity, PLOS-ONE, Ethology, Canadian Journal of Zoology, Ecology and Evolution, Wildlife Biology, Environmental Research Letters, Mammalia, Mammalian Biology, Journal of Natural History, Current Zoology, Arctic, Wildlife Research and Management, Human-Wildlife Conflicts, Southwestern Naturalist, Canadian Field Naturalist, Mammal Study, Environmental Conservation, Science & Technology (Biodiversity Management & Forestry), Animals

**Peer reviewer for Species Status Assessment (ESA).** 2017. US Fish and Wildlife Service.

**Scientific advisor for Ontario Provincial Recovery Strategy for Algonquin wolf** (threatened). 2016-2017.

**Contributed papers session moderator.** 2015. Wildlife Society International Conference.

**Contributed papers abstract reviewer.** 2015. Wildlife Society International Conference.

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## EARLIER PROFESSIONAL EXPERIENCE

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**Scientific Technician ---** January 2002-April 2002  
University of Maine Lynx Project, Orono, ME

- Radio-telemetry, lynx snow tracking, vegetation sampling, data entry

**Wildlife Biologist ---** October 2001- December 2001  
Polar Bear Project, United States Geological Survey, Anchorage, AK

- Polar bear capture, aerial telemetry, processing of biological samples, data entry

**Wildlife Biologist ---** May 2001-August 2001  
Sea Duck Project, United States Geological Survey, Anchorage, AK

- Duck capture, nest searching, telemetry, lived in tent in remote roadless areas in Alaska

**Field Technician ---** April 2001-May 2001  
Redwood National Park Mountain Lion Project, Humboldt State University, Arcata, CA

- Located mountain lions with ground-based radio telemetry

**Field Technician ---** December 2000-January 2001  
UC Berkeley-Lassen Carnivore Research Project, Mineral, CA

- Ground-based radio telemetry, scat and prey remains collection, and snow tracking

**Field Technician ---** May 2000-August 2000  
Sea Bird Project, University of California, Berkeley, Berkeley, CA

- Bird surveys on Pacific Ocean by boat, collecting sonar data, data entry

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**Wildlife Biologist** --- May 1999-August 1999

Marbled Murrelet Project, Natural Resources Management Corporation, Eureka, CA

- Bird surveys, worked alone and lived in tent for 10 days at a time

### SELECTED MEDIA COVERAGE

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*What's Killing the West Coast's Young Great White Sharks?* 2018. National Geographic web article about our Pacific white shark research.

*White Shark Researchers Tap Data from Electronic Tags to Gain Insights into Survival Rates.* 2018. Science Daily article about our white Shark research in California and Mexico.

*Southern California Public Radio (KPCC).* 2016 news interview and podcast about our population viability modeling with mountain lions in the Santa Monica Mountains  
<http://www.scpr.org/news/2016/08/30/64132/will-the-mountain-lions-of-the-santa-monica-mounta/>

*CBS News Radio Los Angeles (KNX).* 2016 news interview about our population viability model for mountain lions in the Santa Monica Mountains.

*LA Times, LA Daily News, LA Weekly, the Atlantic* and other outlets. 2016. All ran stories on our population viability modeling of mountain lions in the Santa Monica Mountains

*Take-Two, Southern California Public Radio (KPCC).* 2016. Live NPR radio interview about my research with mountain lions in the Los Angeles Area.  
[http://media.scpr.org/audio/upload/2016/07/18/SHOW\\_0718-26b05f0c.mp3?uuid=e6c7eda7-035e-47db-b003-62f01e54f2fb](http://media.scpr.org/audio/upload/2016/07/18/SHOW_0718-26b05f0c.mp3?uuid=e6c7eda7-035e-47db-b003-62f01e54f2fb) (mountain lion segment at 68:08:30)

*To avoid conflict, LA mountain lions choose separate hunting grounds.* 2016. LA Times article on our paper about mountain lion predation on deer, print (Sunday edition) and online.

*Meet the Coywolf* (Documentary). 2013-14. PBS-Nature & Canadian Broadcasting Company  
View online: <http://video.pbs.org/video/2365159966/> (see 11:45, 14:25, 15:15)

*Canadian Broadcasting Company (CBC) Radio One.* 2013. Radio interview on prime-time national news about my eastern coyote-moose predation study.

*Wolf-Coyote Hybrid.* 2011. Discovery Channel prime-time TV feature on my PhD research.

*Wolves in Coyote Clothing.* 2011. N. Osbourne. Canadian Wildlife Magazine. Feature Article.

*Bears on the Move.* 2005. Turner South Broadcasting. TV documentary about bears in Louisiana featuring footage of my fieldwork and interviews about my research