

ERIC S. LONG

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EDUCATION

- **Ph.D., Ecology**, The Pennsylvania State University, Dec. 2005
- **M.S., Biology**, The University of North Dakota. Dec. 2001.
- **B.S., Biology**, Wheaton College (IL). Dec. 1998. *Summa cum laude*

TEACHING EXPERIENCE

- **Professor**. Department of Biology, Seattle Pacific University, Seattle, WA. 2006 – current.
- **Adjunct Professor**. Department of Biology, Bucknell University, Lewisburg, PA. 2005.

RESEARCH EXPERIENCE

- **Population Ecology of Black-tailed Deer in the San Juan Islands, Washington**. 2007 – current.
 - Evaluating distance sampling and capture-sight-resight models for estimating population size of deer.
 - Examining activity and movement patterns of this high density population, with particular emphasis on changes in behavior during breeding season and long-distance, inter-island dispersal.
- **Independent Contract, Statistical Analyst for the USGS Northern Appalachian Research Lab**. Oct 2005 - May 2006. Principal Investigator: Robert Ross, Ecologist, USGS NARL.
 - Used multivariate statistical techniques and GIS data to identify influence of acid mine drainage on macro-invertebrate community composition in six watershed areas of northern Pennsylvania.
- **Ph.D. program, The Pennsylvania State University**. January 2002 to December 2005.
 - Evaluated survival and dispersal of white-tailed deer under new, statewide management strategies.
 - Captured more than 2000 white-tailed deer, using Clover traps, drop nets, rocket nets, and dart guns.
- **M.S. program, University of North Dakota**. August 1999 to December 2001. Advisor:
 - Assessed efficacy of automatic cameras for estimating mountain lion populations in Black Hills, SD.
 - Used stable isotopes to evaluate historic diets of mountain lions from California

UNDERGRADUATE RESEARCH

- As of summer 2019, supervised 63 undergraduate research students, resulting in 55 undergraduate lead-authored or co-authored presentations.

PEER-REVIEWED PUBLICATIONS (* = UNDERGRADUATE CO-AUTHOR)

- Diefenbach, D.R., G.L. Alt, B.D. Wallingford, C.S. Rosenberry, and **E.S. Long**. 2019. Effect of male age structure on reproduction in white-tailed deer. *Journal of Wildlife Management* 83:1368-1376.
- **Long, E.S.**, K.L. Courtney*, J.C. Lippert*, C.M. Wall-Scheffler. 2019. Reduced body size of insular black-tailed deer is caused by slowed development. *Oecologia* 189:675-685.
- Wallingford, B.D., D.R. Diefenbach, **E.S. Long**, C.S. Rosenberry, G.L. Alt. 2017. Biological and social outcomes of antler point restriction harvest regulations for white-tailed deer. *Wildlife Monographs* 196:1-26.

- ❑ Buderman, F.E., D.R. Diefenbach, C.R. Rosenberry, B.D. Wallingford, and **E.S. Long**. 2014. Effect of hunter selectivity on harvest rates of radio collared white-tailed deer in Pennsylvania. *Journal of Wildlife Management* 78:1456-1465.
- ❑ Jongejans, E., O. Skarpaas, M.J. Ferrari, **E.S. Long**, J.T. Dauer, C.M. Schwarz, E.S.J. Rauschert, R. Jabbour, D.A. Mortensen, S.A. Isard, D.A. Lieb, Z. Sezen, A.G. Hulting, K. Shea. 2014. A unifying gravity framework for dispersal. *Theoretical Ecology* 8:207-223.
- ❑ **Long, E. S.**, Jacobsen, T.C.*, Nelson, B.J.*, and Steensma, K.M.M.* 2013. Conditional daily and seasonal movement strategies of male Columbia black-tailed deer (*Odocoileus hemionus columbianus*). *Canadian Journal of Zoology*, 91(10), 679-688.
- ❑ **Long, E.S.**, D.R. Diefenbach, C.S. Rosenberry, and B.D. Wallingford. 2010. Influence of roads, rivers, and mountains on dispersal of white-tailed deer. *Journal of Wildlife Management* 74:1242-1249.
- ❑ Rosenberry, C.S., Long, **E.S.**, **Hassel**, H.M.*, Buonaccorsi, V.P., Diefenbach, D.R., and Wallingford, B.D. 2009. Relatedness of white-tailed deer capture groups. *Journal of Wildlife Management* 73:357-361.
- ❑ **Long, E.S.**, D.R. Diefenbach, C.S. Rosenberry, and B.D. Wallingford. 2008. Multiple proximate and ultimate causes of natal dispersal in white-tailed deer. *Behavioral Ecology* 19:1235-1242.
- ❑ Ross, R. **E. Long**, D. Dropkin. 2008. Response of macroinvertebrate communities to remediation-simulating conditions in Pennsylvania streams influenced by acid mine drainage. *Environmental Monitoring and Assessment* 145:323-338.
- ❑ Diefenbach, D.R. **E.S. Long**, C.S. Rosenberry, B.D. Wallingford, D.R. Smith. 2008. Modeling distribution of dispersal distances in male white-tailed deer. *Journal of Wildlife Management* 72:1296-1303.
- ❑ **Long, E.S.**, R.A. Sweitzer, D.R. Diefenbach, and M. Ben-David. 2005. Controlling for anthropogenically induced atmospheric variation in stable carbon isotope studies. *Oecologia* 146:148-156.
- ❑ **Long, E.S.**, D.R. Diefenbach, C.S. Rosenberry, B.D. Wallingford, and M.D. Grund. 2005. Landscape structure influences dispersal distance of white-tailed deer. *Journal of Mammalogy* 86:623-629.
- ❑ **Long, E.S.**, D.A. Fecske, R.A. Sweitzer, J.A. Jenks, B.M. Pierce, and V.C. Bleich. 2003. Efficacy of photographic scent stations to detect mountain lions. *Western North American Naturalist* 63:529-532.
- ❑ **Long, E.S.** and R.A. Sweitzer. 2001. Museum collection records of mountain lions in California. *California Fish and Game* 87:153-167.

ACADEMIC PEER-REVIEWED PRESENTATIONS (SELECTED)

(* = UNDERGRADUATE CO-AUTHOR)

- ❑ Sevigny, J.P.*, J.R. Palaganas*, K.M. Peterson*, A.C. Wilken*, B.B. Craft, and **E.S. Long**. A taxonomy-based meta-analysis of risk-sensitive foraging models from 1950 to present. 56th Annual Conference of the Animal Behavior Society. Chicago, IL. Jul 2019.
- ❑ **Long, E.S.**, L.A. Arnold*, R.L. Pedersen*, Z.M. Wilson*, and C.M. Wall-Scheffler. Age and sex structure of a high density, island population of black-tailed deer. 22nd Annual Conference of The Wildlife Society. Alberta, CA. Oct 2015.
- ❑ **Long, E.S.**, T.C. Jacobsen*, B.J. Nelson*, K.M. Steensma*. Using generalized additive mixed models to evaluate seasonal and daily movement strategies of black-tailed deer. 20th Annual Conference of The Wildlife Society. Milwaukee, WI. Oct. 2013.
- ❑ Wallingford, B.D., D.R. Diefenbach, C.S. Rosenberry, and **E.S. Long**. Pennsylvania antler point restrictions: more and bigger bucks, but hunter opinions remain unchanged. 19th Annual Conference of The Wildlife Society. Portland, OR. Oct. 2012.

- ❑ **Long, E.S.**, S.K. Irvin*, S.M. Robinson*, and L.D. Davies*. Comparison of line-transect distance sampling and mark-resight with automatic cameras for estimating density of an island population of black-tailed deer. 19th Annual Conference of The Wildlife Society. Portland, OR. Oct. 2012.
- ❑ **Long, E.S.**, T.C. Jacobsen*, B.J. Nelson*, K.M. Steensma*, and D.A. Congdon*. Seasonal movement patterns of male black-tailed deer. 18th Annual Conference of The Wildlife Society. Waikoloa, HI. Nov. 2011.
- ❑ Taylor, K.* and **E.S. Long**. Home range estimates for a high density population of Columbian black-tailed deer on Blakely Island, WA. 16th Annual Conference of The Wildlife Society. Monterey, CA. Sept. 2009.
- ❑ **Long, E.S.**, L. Davies,* K. Taylor,* S. Irvin,* and M. Friesen.* Estimating population size and movement patterns of black-tailed deer on Blakely Island, WA. Western States and Provinces Deer and Elk Workshop, Spokane, WA. April 27 – 30, 2009. (Published abstract.)

FUNDING, ACADEMIC AWARDS, AND SCHOLARSHIPS

- ❑ Seattle Pacific University Innovation Grant, 2017-18 (\$2300)
- ❑ Seattle Pacific University Academic Renewal Grant, 2018 (\$3398)
- ❑ Seattle Pacific University Faculty Research Grant, 2015-16 (\$3333)
- ❑ Seattle Pacific University Faculty Research Grant, 2014-15 (\$4,607)
- ❑ Seattle Pacific University Faculty Research Grant, 2011 (\$4,611)
- ❑ Seattle Pacific University Professor of the Year Award, 2008-2009
- ❑ Seattle Pacific University Faculty Research Grant, 2008. (\$4,612)
- ❑ Murdock Charitable Trust Research Startup Grant for New Science Faculty, 2006. (\$50,000)