Curriculum Vitae (August 2025)

Lisa A. Shipley

Professor and Associate Director

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EDUCATION:

Degrees

1993 Ph.D. Wildlife and Fisheries Sciences, Texas A&M University
1989 M.S. Wildlife Management, University of Maine
1986 B.S. Wildlife Biology, Minor Fisheries, Colorado State University

Academic Awards & Honors

- David W. Killam Lectureship in White-tailed Deer Research and Management, Caesar Kleberg Wildlife Institute (2016)
- Honors College Thesis Advisor Award, Honors College, WSU (2014)
- Outstanding Teaching Award, Department of Natural Resource Sciences, WSU (2011)
- Naval ROTC Faculty Excellence Award, University of Idaho and Washington State University (2008)
- Recognition for Distinguished Service Learning, Washington State University (2002)
- National Science Foundation Postdoctoral Fellowship (1994)
- Tom Slick Fellowship, Texas A&M University (1992)
- Regent's Fellowship, Texas A&M University (1990)
- Dow-Griffee Graduate Fellowship, University of Maine (1988)
- Graduated with Highest Distinction and University Honors, Colorado State University (1986)
- Philip A. Connolly Scholarship, Colorado State University (1984)

Academic Appointments

2014-now Professor of Mammalian Ecology), School of the Environment, Washington State University, Pullman, WA.
Associate Director of Undergraduate Studies (2014-2016)
Associate Director of Graduate Studies (2022-2025)

2016-17 Visiting Scientist, National Institute of Agricultural Technology and National University of Comahue, Instituto de Investigaciones en Biodiversidad y Medioambiente, San Carlos de Bariloche, Rio Negro, Argentina.

2010-14 Professor, Mammalian Ecology, Department of Natural Resource Sciences, Washington State University (WSU), Pullman, WA.

2003-10 Associate Professor, Mammalian Ecology, Department of Natural Resource Sciences, Washington State University (WSU), Pullman, WA.

1998-now Adjunct Faculty Member, Department of Fisheries and Wildlife, University of Idaho, Moscow, ID.

2006 Visiting faculty, School of Tropical Biology, James Cook University, Townsville, QLD and School of Botany and Zoology, Australian National University, Canberra, ACT.

1997-02 Assistant Professor, Mammalian Ecology, Department of Natural Resource Sciences, Washington State University (WSU), Pullman, WA.

1995-96 Assistant Professor, Wildlife Ecology, Department of Biology, Frostburg State University, Frostburg, MD

1994-95 Postdoctoral Research Fellow, Department of Animal Ecology, SwedishUniversity of Agricultural Sciences, Umeå, Sweden

Other Professional Experience

1990-93 Graduate Fellow & GRA, Texas Agriculture Experiment Station, Texas A&M University, College Station, TX

1992 Graduate Teaching Assistant, Department of Wildlife and Fisheries Sciences,Texas A&M University, College Station, TX

1989-90 Biological Technician, Forestry Sciences Laboratory, Pacific Northwest Range and Forest Experiment Station, Juneau, AK

1987-89 Graduate Research Assisatn, Department of Wildlife Management, University of Maine, Orono, ME

1987 Research Technician, Department of Fish & Wildlife Resources, University of Idaho, Moscow, ID

1986 Research Technician, Colorado Division of Wildlife, Ft. Collins, CO

1986 Wildlife Technician, Bureau of Land Management, Casper, WY

1983-86 Forestry Technician, Estes-Poudre Ranger District, United States Forest Service, Ft. Collins, CO (part, full-time)

1985 Wildlife Technician, Colorado Division of Wildlife, Montrose, CO

RESEARCH:

Current areas of emphasis:

- Foraging ecology, nutrition and diet selection of vertebrates
- Morphological and physiological adaptations of plants and animals for herbivory
- Behavior and habitat requirements of free-ranging mammals
- Mapping the functional value of habitats

*PROFESSIONAL JOURNAL ARTICLES, REFEREED (*graduate student, **undergraduate author, 109* total published, 13 in review/revision)

122. Eriksson, C. E., **L. A. Shipley**, D. A. Clark, and T. Levi. In review. Comparing accuracy and biases of DNA metabarcoding, hybridization capature, and metagenomic sequencing for quantifying herbivore diets. Molecular Ecology Resources (July 2025).

121. Stift*, A. M., **L. A. Shipley**, and D. Thornton. In review. Evaluating survey methods to determine presence and species identification of jackrabbits in Washington. Journal of Mammalogy (July 2025).

120. Denny*, K., **L. A. Shipley**, L. E. Perera*, A. J. H. Meddens. G. Hernandes Volpato, and D. H. Thornton. In revision. The effects of fire severity and fire heterogeneity on occupancy of a community of large vertebrates. Forest Ecology and Management. (July 2025).

119. Alegbeleye*, O., **L. A. Shipley**, M. C. Camp, A. Stahl, D. Brown, A. Fremier, A. Hudak, A. Duarte, and A. Meddens. In review. Rocks as refuge: New opportunities for measuring important features of broken-rock land cover for wildlife habitat. Ecological Applications (July 2025).

118. Dean, T., D. L. DeAngelis, J. S. Forbey, S. McLean**, L. A. Shipley**, R. Liu. In revision. Model of regulation of plant secondary metabolite intake by an herbivore through feedback from blood toxin level. Journal of Chemical Ecology (August 2025).

117. Torres Ferreira*, A**., L. A. Shipley**, M. C. Camp, and J. I. Ransom. In revision. American pikas select fine-scale characteristics of talus patches for haypile locations. Journal of Mammalogy (September 2025).

116. Robb*, B.C., S. J. Galla, T. T. Caughlin, J. J. Mitchell, P. J. Olsoy, J. D. Nobler, M. R. Fremgen-Trantino, D. M. Delparte, **L. A. Shipley**, J. L. Rachlow, C. Dadabay, and J. S. Forbey. In review. Near infrared spectroscopy predicts concentrations of phytochemicals and browsing by vertebrate herbivores. PNAS (March 2025).

115. Monzingo*, D. S., J. G. Cook, R. C. Cook, L. Irwin, and **L. A. Shipley**. In revision. Dynamics of Forage Resources for Elk in North-Central Idaho: 1870-2015. Journal of Wildlife Management (January 2025).

114. Burgstahler*, K., **L. A. Shipley**, A. Stift, S. Woodley, and D. Thornton. In revision. Effects of wildfire on the distribution of mammals and birds in a working shrub-steppe landscape. Fire Ecology (July 2025).

113. Huggler*, K. S., R. A. Smiley*, B. L. Wagler, A. B. Courtemanch, Z. Gregory, K. L. Monteith, **L. A. Shipley**, C. Steward, P. Wik, E. F. Cassirer, and R. A. Long. In revision. Should I stay or should I go? Causes and consequences of intraspecific variation in site fidelity. Movement Ecology (September 2025).

112. Huggler*, K. S., R. A. Smiley*, B. L. Wagler, A. B. Courtemanch, Z. Gregory, D. Lutz, K. L. Monteith, **L. A. Shipley,** C. Stewart, P. Wik. E. F. Cassirer, and R. A. Long. In press. Causes and consequences of life-history variation in a long-lived mammal. Wildlife Monographs (September 2025).

111. Anderson*, K., and **L. A. Shipley**. In press. Comparing microbial communities across the gastrointestinal tract of a moose. Alces (August 2025).

110. Balluffi-Fry*, J., **L. A. Shipley**, R. Zijlstra, E. Bork, M. Humphries, and S.Boutin. 2025. Nutrient balancing by a wild browsing herbivore: nutritional geometry of snowshoe hares (*Lepus americanus)*. Ecology and Evolution 15:e72347..

109. Torres Ferreira*, A**., L. A. Shipley**, A. Stahl, M. C. Camp, and A. Meddens. 2025. Handheld photogrammetry advances capabilities to systematically characterize broken-rock habitat. Wildlife Society Bulletin e1613. https://doi.org/10.1002/wsb.1613.

108. Anderson*, K.A**., L. A. Shipley**, S. Galla, M. Calahan, S. Berry, S. Hudon, and J. S. Forbey. 2025. Food or family? How gut microbes respond to diet and phylogeny in two deer species. Ecosphere 16:e70435..

107. Hellesto*, R., **L. A. Shipley**, P. Bennett**, K. Huggler*, and M. Devivo. 2025. Early fawn-rearing habitat of mule deer in an agricultural landscape. Ecosphere 16:e70403
106. Celebrezze, J. V., M. A. Okikiola*, D. A. Glavich, **L. A. Shipley**, and A. J. H. Meddens. 2025. Classifying rocky land cover using random forest modeling: lessons learned and potential applications in Washington, USA. Remote Sensing 17/915.

105. Hellesto*, R., **L. A. Shipley**, and R. A. Long. 2025. Seasonal habitat selection and migration of mule deer in an agricultural landscape. Journal of Wildlife Management . Journal of Wildlife Management https://doilrog/10.1002/jwmg.70014..

104. Robatchek*, S., C. White, R. Long, and **L. A. Shipley**. 2025. Using dynamic foodscape models to assess bottom-up constraints on population performance of herbivores. Ecological Applications doi:10.1002/eap.70015.

103. Bilodeau-Hussey*, N. M., K. S. Huggler*, E. F. Cassirer, H. Miyasaki, M. Hurley, S. Roberts, **L. A. Shipley**, and R. A. Long. 2025. Effects of maternal condition, disease status, and behavior on survival of juvenile bighorn sheep. Journal of Wildlife Management https://doi.org/10.1002/jwmg.22721

102. Lopez*, K., K. Huggler*, D. Jackson, L. A., Shipley and R. A. Long. 2024. Linking summer nutrition to behavior and performance of black-tailed deer. The Journal of Wildlife Management 2024:e22679.

101. Whiles*, L., **L. A. Shipley**, J. R. Akins, R. G. Christophersen, J. I. Ransom, T. Levi, and D. H. Thornton. 2024. Predation risk for hoary marmots in in Washington's North Cascades Mountains. Journal of Mammalogy gyae086, https://doi.org/10.1093/jmammal/gyae086

100. Ganz*, T. R., S. B. Bassing, M. DeVivo, B. Gardner, B. Kertson, L. Satterfield**, L. A. Shipley**, B. Turnock, S. L. Walker, D. Abrahamson, A. Wirsing, and L. Prugh. 2024. White-tailed deer population dynamics in a multi-predator landscape shaped by humans. Ecological Applications DOI: 10.1002/eap.3003

99. Peziol*, M., M. L. Elbroch, **L. A. Shipley**, D. R. Evans, H. Quigley, and D. Thornton. 2023. Large carnivore foraging contributes to heterogeneity in nutrient cycling. Landscape Ecology 38:1497-1509.

98. Monzingo*, D. S., J. G. Cook, R. C. Cook, J. S. Horne and **L. A. Shipley**. 2023. Influences of succession and biogeoclimate on forage Resources for elk in Northern Idaho. Northwest Science 96:94-1116.

97. Cook, R. C., **L. A. Shipley**, J. G. Cook, M. J. Camp, D. S. Monzingo*, S. L. Robatcek, S. L. Berry, I. T. Hull*, W. L. Myers, K. A. Denryter, and R. A. Long. 2022. Sequential detergent fiber assay results used for nutritional ecology research: Evidence of bias since 2012. Wildlife Society Bulletin 46:e1348.

96. Konôpka, B., V. Šebeň, J. Pajtík, and **L. A. Shipley**. 2022. Influence of tree species and size on

bark browsing by large wild herbivores. Plants 11:2925, **https://doi.org/10.3390/plants11212925**.

95. Olsoy*, P. J., C. R. Milling*, J. D. Nobler*, M. J. Camp*, **L. A. Shipley**, J. S. Forbey, J. L. Rachlow, and D.H. Thornton. 2022. Food quality, security, and thermal refuge influence the use of microsites and patches by pygmy rabbits (*Brachylagus idahoensis*) across landscapes and seasons Ecology and Evolution 12:e8892 DOI: 10.1002/ece3.8892.

94. Monzingo*, D. S., **L. A. Shipley**, R. C. Cook, and J. G. Cook. 2022. Factors influencing predictions of understory vegetation biomass from visual cover estimates. Wildlife Society Bulletin 46:e1300, https://doi.org/10.1002/wsb.1300.

93. Gowda, J. H., M. Blackhall, **L. A. Shipley**, T. Kitzberger, and F. Tiribelli. 2022. Are digestibility and flammability related? Two variables shaping landscape dynamics of Northwestern Patagonian forests. Forest Ecology and Management 503:119810.https://doi.org/10.1016/j.foreco.2021.119810

92. Robb*, B., P. J. Olsoy*, J. J. Mitchell, T. T. Caughlin*, D. M. Delparte, M. R. Fremgen-Tarantino, J. D. Nobler*, J. L. Rachlow, **L. A. Shipley**, and J. S. Forbey. 2021. Near-infrared spectroscopy aids ecological restoration by classifying variation of taxonomy and phenology of a native shrub. Restoration Ecology 30(5) e13584:, doi: 10.1111/rec.13584.

91. Staudenmaier*, A. R., **L. A. Shipley**, M. J. Camp, J. S. Forbey, A. E. Hagerman, A. E. Brandt**, and D. H. Thornton. 2021. Mule deer do more with less: comparing their nutritional requirements and tolerances with white-tailed deer. Journal of Mammalogy 103:178-195, https://doi.org/10.1093/jmammal/gyab116

90. Staudenmaier*, A. R., **L. A. Shipley**, A. Bibelnieks*, M.J. Camp, and D. H. Thornton. 2021. Habitat use and spatio-temporal interactions of mule and white-tailed deer in an area of sympatry in NE Washington. Ecosphere 12(11):e03813.

89. Konôpka, B., V. Šebeň, J. Pajtík, and **L. A. Shipley**. 2021. Excluding large wild herbivores reduced Norway spruce dominance and supported tree species richness in a young, naturally regenerated stand. Forests 12, 737, https://doi.org/10.3390/f12060737.

88. Ulappa*, A. C., **L. A. Shipley**, R. C. Cook, J. G. Cook, and M. E. Swanson. 2020. Silvicultural herbicides and forest succession influence understory vegetation and nutritional ecology of black-tailed deer in managed forests. Forest Ecology and Management, https://doi.org/10.1016/j.foreco.2020.118216

87. Merems*, J. L., **L. A. Shipley**, T. Levi, J. Ruprecht, D. A. Clark, M. J. Wisdom, N. J. Jackson, K. M Stewart, and R. A. Long. 2020. Nutritional-landscape models link habitat use to condition of Mule deer (*Odocoileus hemionus*). Frontiers in Ecology and Evolution 8:98. doi: 10.3389/fevo.2020.00098

86. Camp, M. J., **L. A. Shipley**, J. Varner, and B. D. Waterhouse. 2020. Activity patterns and foraging behavior of American pikas (*Ochotona princeps*) differ between Craters of the Moon and alpine talus in Idaho. Western North American Naturalist 80:49-69.

85. Olsoy*, P.J., J. S. Forbey, **L. A. Shipley**, J. L. Rachlow, B. C. Robb**, J. D. Nobler*, and D. H. Thornton. 2020. Mapping foodscapes and sagebrush morphotypes with unmanned aerial Systems for multiple herbivores. Landscape Ecology 35:921-936.

84. Hull, I. T.*, **L. A. Shipley**, S. L. Berry*, C. Loggers, and T. R. Johnson. 2020. Effects of fuel reduction timber harvests on forage resources for deer in northeastern Washington. Forest Ecology and Management 458:117757

83. Konôpka, B.**,** J. Pajtík, M. Bošeľa, Vladimír Šebeň, and **L. A. Shipley**. 2020. Modeling forage potential for red deer (*Cervus elaphus*) – a tree level approach. European Journal of Forest Research 139:419-430.

82. Schrempp, T.*, J. L. Rachlow, T. R. Johnson, **L. A. Shipley**, R. Long, J. Aycrigg, and M. Hurley. 2019. Linking forest management to moose population trends: The role of the nutritional landscape. PLOS ONE https://doi.org/10.1371/journal.pone.0219128

81. Berry, S. L.*, **L. A. Shipley**, R. A. Long and C. Loggers. 2019. Differences in dietary niche and foraging behavior by sympatric mule and white-tailed deer in Washington. Ecosphere 10:e02815.

80. Ebenhoch, K., D*. Thornton, **L. A. Shipley**, J. Manning, and K. White. 2019. Comparing population vital rates of resident and translocated greater sage-grouse in Yakima, WA. Journal of Wildlife Management 83:1314-1325.

79. Hull, I. T*., and **L. A. Shipley**. 2019. Testing the ability of airborne LiDAR to measure forage resources for wild ungulates in conifer forests. Journal of Forestry 117:492-503 https://doi.org/10.1093/jofore/fvz040 .

78. Nobler, J. D.*, M. J. Camp*, M. M. Crowell*, **L. A. Shipley**, C. Dadabay, J.L. Rachlow, L. James**, and J. S. Forbey. 2018. Preferences of specialist and generalist mammalian herbivores for mixtures versus individual plant secondary metabolites. Journal of Chemical Ecology https://doi.org/10.1007/s10886-018-1030-5

77. Konôpka, B., J. Pajtík, and **L. A. Shipley**. 2018. Intensity of red deer browsing on young rowans differs between freshly-felled and standing individuals. Forest Ecology and Management 429:511-519.

76. Milling, C.R.*, J.L. Rachlow, P.J. Olsoy*, M.A. Chappell, T.R. Johnson, J.S. Forbey, **L.A. Shipley**, and D.H.Thornton. 2018. Habitat structure modifies microclimate: an approach for mapping fine-scale thermal heterogeneity. Methods in Ecology and Evolution 9:1648-1657.

75. Crowell, M. M*., **L. A. Shipley**, J. S. Forbey, J. L. Rachlow, and R. G. Kelsey. 2018. Dietary partitioning of toxic leaves and fibrous stems differs between sympatric specialist and generalist mammalian herbivores. Journal of Mammalogy 99:565-577, https://doi.org/10.1093/jmammal/gyy018.

74. Milling*, C. R., J. L. Rachlow, M. A. Chappell, M. J. Camp*, T. R. Johnson, D. R. Paul, **L. A. Shipley,** and J. S. Forbey. 2018. Seasonal temperature acclimatization in a semi-fossorial mammal and the role of burrows as thermal refugia. PeerJ 6:e4511; DOI 10.7717/peerj.4511.

73. Camp*, M. J., **L. A. Shipley**, C. R. Milling*, J. L. Rachlow, and J. S. Forbey. 2018. Interacting effects of ambient temperature and food quality on the foraging ecology of small mammalian herbivores. Journal of Thermal Biology 71:83-90.

72. McMahon, L. A.*, J. L. Rachlow, **L. A. Shipley**, J. S. Forbey, and T. R. Johnson. 2017. Habitat selection differs across hierarchical behaviors: Selection of patches and intensity of patch use. Ecosphere 8(11):0.1993.

71. Olsoy, P, J.*, **L. A. Shipley**, J. L. Rachlow, J. S. Forbey, N. Glenn, M. Burgess, and D. Thornton. 2018. Unmanned aerial systems measure structural habitat features for wildlife across multiple scales. Methods in Ecology and Evolution 9:594-604, DOI:10.1111/2041-210X.12919.

70. Camp*, M. J., **L. A. Shipley**, T. R. Johnson, P. Olsoy*, J. S. Forbey, J. L. Rachlow, and D. Thornton. 2017. The balancing act of foraging: Mammalian herbivores trade-off multiple risks when selecting food patches. Oecologia 185:537-549, DOI 10.1007/500442-017-3957-6.

69. Milling*, C. R., J. L. Rachlow, T. R. Johnson, J. S. Forbey, and **L. A. Shipley**. 2017. Seasonal variation in behavioral thermoregulation and predator avoidance in a small mammal. Behavioral Ecology 28:1236-1247.

68. Forbey, J. S., G. L. Patricelli, D. M. Delparte, A. H. Krakauer, P. J. Olsoy*, M. R. Fremgen*, J. D. Nobler*, L. P. Spaete, **L. A. Shipley**, J. L. Rachlow, A. K. Dirksen, A. Perry, B. A. Richardson, and N. F. Glenn. 2017. Emerging technology to measure habitat quality and behavior of grouse: examples from studies of greater sage-grouse. Wildlife Biology DOI: 10.2981/wlb.00238

67. McMahon*, L. A, J. L. Rachlow, **L. A. Shipley**, J. S. Forbey, T. R. Johnson, and P. J. Olsoy*. 2017. Evaluation of micro-GPS receivers for tracking small-bodied mammals. PloS ONE 12(3): e0173185. doi:10.1371/journal.pone.0173185

66. King*, T. W., R. Salom-Pérez, **L. A. Shipley**, H. B. Quigley, and D. H. Thornton. 2017. Ocelot latrines: communication centers for Neotropical mammals. Journal of Mammalogy 98:106-113.

65. Olsoy*, P. J., T. G. Griggs, A. C. Ulappa*, K. Gehlken*, **L. A. Shipley**, G. E. Shewmaker, and J. S. Forbey. 2016. Nutritional analysis of sagebrush by near-infrared spectroscopy. Journal of Arid Environments 134:125-1131.

64. Utz*, J. L., **L. A. Shipley**, J. L. Rachlow, T. L. Johnstone-Yellin, M. J. Camp*, and J.S. Forbey. 2016. Understanding tradeoffs between predation and food risks in a specialist mammalian herbivore. Wildlife Biology 22:167-173.

63. Crowell*, M. M., **L. A. Shipley**, M. J. Camp*, J. L. Rachlow, J. S. Forbey, and T. R.Johnson. 2016. Selection of food patches by sympatric herbivores in response to concealment and distance from a refuge. Ecology and Evolution DOI: 10.1002/ece3.1940.

62. Camp*, M. J., **L. A. Shipley**, T. R. Johnson, M. M. Crowell*, J. S. Forbey, and J. L. Rachlow. 2015. Modeling tradeoffs between plant fiber and toxins: A framework for quantifying risks perceived by foraging herbivores. Ecology. 96:3292-3302

61. Stonehouse*, K. F., **L. A. Shipley**, J. Lowe, M. T. Atamian, M. E. Swanson, and M. A. Schroeder. 2015. Habitat selection by sympatric greater sage-grouse and Columbian sharp-tailed grouse. Journal of Wildlife Management 79:1308-1326.

60. Olsoy*, P. J., J. S. Forbey, J. L. Rachlow, J. D. Nobler*, N. F. Glenn, and **L. A. Shipley**. 2015. Fearscapes: mapping functional properties of cover for prey with terrestrial LiDAR. Bioscience 65:74-80.

59. Rachlow, J. L., R. M. Peter**, **L. A. Shipley**, and T. R. Johnson. 2014. Sublethal effects of capture and collaring on wildlife: experimental and field evidence. Wildlife Society Bulletin 38:458-465.

58. Ulappa*, A. C., R. G. Kelsey, G. G. Frye*, J. L. Rachlow, **L. A. Shipley**, X. Pu, L. Bond, and J. Forbey. 2014. Plant protein and secondary metabolites influence diet selection in a mammalian specialist herbivore. Journal of Mammalogy 95:834-842.

57. Camp*, M. J., J. L. Rachlow, **L. A. Shipley**, T. R. Johnson, and K. D. Bockting. 2014. Grazing in Sagebrush rangelands in western North American: Implications for habitat quality for a sagebrush specialist, the pygmy rabbit. The Rangeland Journal 36:151-159.

56. Elias*, B. A., **L. A. Shipley**, S. McCusker*, R. D. Sayler, and T. R. Johnson. 2013. Effects of genetic

management on reproduction, growth, and survival in captive endangered pygmy rabbits (*Brachylagus idahoensis*). Journal of Mammalogy 94:1282-1292.

55. Ellsworth*, E., A. J. Wirsing, **L. A. Shipley**, and D. L. Murray. 2013. Do measures of plant intake and digestibility from captive feeding trials align with foraging patterns of free-ranging snowshoe hares? Wildlife Research 40:340-357.

54. Scarlata*, C. D., B. A. Elias*, J. R. Godwin, R. A. Powell, D. Shepherdson, **L. A. Shipley**, and J. L. Brown. 2013. Influence of environmental conditions and facility on faecal glucocorticoid concentrations and in captive pygmy rabbits. Animal Welfare 22:357-368.

53. Cook*, R. C., J. G. Cook, D. J. Vales, B, K. Johnson, S. M. McCorquodale, **L. A. Shipley**, R. A. Riggs, L.L. Irwin, S. L. Murphie, B. L. Murphie, K. A. Schoenecker, F. Geyer, P. B. Hall, R. D. Spencer, D.A. Immell, D. H. Jackson, B. L. Tiller, P. J. Miller, and L. Schmitz. 2013. Regional and seasonal patterns of nutritional condition and reproduction in elk. Wildlife Monographs 184.

52. Wagoner*, S. J., **L. A. Shipley**, R. C. Cook*, and L. Hardesty. 2013 Spring cattle grazing and mule deer nutrition in a bluebunch wheatgrass community. Journal of Wildlife Management 77:897-907.

51. Camp*, M. J., B. A. Woods*, J. L. Rachlow, T. R. Johnson, and **L. A. Shipley**. 2013. Examining the functional components of cover: The relationship between concealment and visibility in shrub-steppe habitat. Ecosphere 4:1-14.

50. Camp*, M. J., J. L. Rachlow, B. A. Woods*, T. R. Johnson, and **L. A. Shipley**. 2012. When to run and when to hide: The influence of concealment, visibility, and proximity to refugia on perception of risk. Ethology 118:1010-1017.

49. Shipley, L. A., E. M. Davis, L. A. Felicetti, S. McClean, and J. S. Forbey. 2012. Mechanisms for eliminating monoterpenes of sagebrush by specialist and generalist rabbits. Journal of Chemical Ecology 38:1178-1189.

48. Scarlata*, C. D., B. A. Elias, J. R. Godwin, R. A. Powell, D. Shepherdson, **L. A. Shipley** and J. L. Brown. 2012. Relationship between fecal hormone concentrations and reproductive success in captive pygmy rabbits (*Brachylagus idahoensis*). Journal of Mammalogy 93:759-770.

47. Scarlata*, C. D., B. A. Elias, J. R. Godwin, R. A. Powell, D. Shepherdson, **L. A. Shipley** and J. L. Brown. 2011. Characterizing gonadal and adrenal activity by fecal steroid analysis in pygmy rabbits (*Brachylagus idahoensis*). General and Comparative Endocrinology 171:373-380.

46. Tollefson*, T. L., **L. A. Shipley,** W. L. Myers, and N. Dasgupta. 2011. Forage quality's influence on Mule deer fawns. Journal of Wildlife Management 75:919-928.

45. McCusker*, S., **L. A. Shipley**, T. N. Tollefson*, M. Griffin, and E. A. Koutsos. 2011. Effects of starch and fibre in pelleted diets on nutritional status of mule deer (*Odocoileus hemionus*) fawns. Journa of Animal Physiology and Animal Nutrition 95: 489 - 498.

44. Dungan*,J. D., **L. A. Shipley**, and R. G. Wright. 2010. Activity patterns, foraging ecology and summer range carrying capacity of moose in Rocky Mountain National Park, Colorado, Alces 46: 71-87.

43. Tollefson*, T. L., **L. A. Shipley**, W. L. Myers, D. H. Keisler, and N. Dasgupta. 2010. The influence of summer and autumn nutrition on body condition and reproduction in lactating mule deer. Journal of Wildlife Management 74:974-986.

42. Lopez-Perez*, E., **L. A. Shipley**, and W. Myers. 2010. Blood selenium levels of mule deer in eastern

Washington. Journal of Dairy Science 93:125-126.

41. Shipley, L. A. 2010. Fifty years of food and foraging in moose: Lessons in ecology from a model herbivore. Alces 46:1-13.

40. McClure, M. F., and **L. A. Shipley**. 2009. Animal response to nested self-similar patches: A test with woolly bears. Oikos 118:653-662.

39. Johnstone-Yellin*, T. L., **L. A. Shipley**, W. L. Myers, and H. S. Robinson*. 2009. To twin or not to twin? Tradeoffs in litter size and fawn survival in mule deer. Journal of Mammalogy 90:453-460.

38. Shipley, L. A., J. S. Forbey, and B. D. Moore. 2009. Revisiting the dietary niche: when is a mammalian herbivore a specialist? Integrative and Comparative Biology 49:274-290.

37. Kendrick*, E., **L. A. Shipley**, A. E. Hagerman, and L. M. Kelly*. 2009. Fruit and fibre: The nutritional value of figs for a small tropical ruminant, the blue duiker (*Cephalophus monticola*). Journal of African Ecology 47:556-566.

36. DeGabriel*, J. L., B. D. Moore, **L. A. Shipley**, A. K. Krockenberger, I. R. Wallis, C. N. Johnson, and W.
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BOOK CHAPTERS, REFEREED

Shipley, L. A. in review. Chapter 2. Digestive anatomy and processes of ruminant and non-ruminant herbivores. Pages XXX-XXX in Nutritional Ecology of Wild Mammalian Herbivores. J. Cook, E. Merrill, and R. Cook, eds. Johns Hopkins University Press, Baltimore. (September 2025).

Cook, R. C., and **L. A. Shipley.** in review. Chapter 8. Limitations to Herbivory: Balancing Interactions Between Herbivores and Their Environmen. Pages XXX-XXX in Nutritional Ecology of Wild Mammalian Herbivores.J. Cook, E. Merrill, and R. Cook, eds. Johns Hopkins University Press, Baltimore. (September 2025).

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Monteith, K. L., T. N. LaSharr, C. J. Bishop, T. R. Stephenson, K. M. Stewart, and **L. A. Shipley**. 2023. Chapter 4. Digestive physiology and nutrition. In Ecology and Management of Black-tailed and Mule Deer in North America. J. Heffelfinger and P. Krausman, eds. CRC Publishing, Boca Raton, FL.

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Rachlow, J.L., P.A. Becker, and **L.A. Shipley.** 2018. *Brachylagus idahoensis*. In: Lagomorphs—Pikas, rabbits, and hares of the World (A.T. Smith, P.C. Alves, C.H. Johnston, and K. Hackländer, eds.). John Hopkins University Press, Baltimore.

Searle, K. R., and **L. A. Shipley**. 2008. The comparative feeding behaviour of browsing and grazing ungulates. Pages 117-148 in Ecology of grazing and browsing herbivores, Ecological Studies Series Vol. 195. I. J. Gordon and H. H. T. Prins, eds. Springer, Berlin.

TECHNICAL BULLETINS AND PROCEEDINGS (*graduate student, **undergraduate author)

Monzingo, D. S.*, J. G. Cook, R. C. Cook, and **L. A. Shipley**. 2023. A field guide to summer-early autumn forage resources for elk in northern Idaho. General Technical Report PNW-GTR-1016, USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon.

Thines*, N. J., J. H. Bassman, **L. A. Shipley**, and J. R Slusser. 2004. Effects of enhanced UV-B radiation on secondary metabolites in forage plants and potential consequences for multiple trophic responses involving mammalian herbivores. Pages 117-129 in Ultraviolet ground- and space-based measurements, models, and effects IV. Proceedings of the International Society for Optical Engineers. Volume 5545.

Shipley, L. A., and C. R. Yanish. 2001. Structural anti-quality: the bones and gristle of the rangeland buffet. Pages 13-17 in K.L.Launchbaugh (ed.) Anti-quality Factors in Rangeland and Pastureland Forages. Idaho Forest, Wildlife & Range Exp. Sta. Bulletin 73.

Shipley, L. A. 1999. Grazers and browsers: How digestive morphology affects diet selection. Pages 20-27 *IN* K. L. Launchbaugh, J. C. Mosley, and K.D. Sanders, eds. Grazing behavior of livestock and wildlife. Idaho Forest, Wildlife, and Range Experiment Station Bulletin 70.

OTHER PUBLISHED WORKS (*graduate student, **undergraduate author)

Forbey, J. S., G. L. Patricelli, D. M. Delparte, A. H. Krakauer, P. J. Olsoy*, M. R. Fremgen*, J. D. Nobler*, N. F. Glenn, L. P. Spaete, B. A. Richardson, **L A. Shipley**, and J. Mitchell. 2016. Overview of a Workshop to Expand the Use of Emerging Technology to Understand the Ecology of Grouse in a Changing Climate. Grouse News 52: 7-18.

Crowell**, M. A., M. J. Camp*, and **L. A. Shipley**. 2013. The role of fiber and toxins in diet preference by A specialist and generalist herbivore. A.S.K. Volume 1:Spring 2013.

EXTRAMURAL FUNDING FOR RESEARCH:

Awarded:

Investigating the status, distributions, and habitat quality of rock-obligate species within national park units of the Cascade Range. National Park Service, $15,000, PIs. A. Meddens, L. Shipley, A. Stahl, M. Camp 5/24 – 9/25

Movements and habitat selection of black-tailed and white-tailed jackrabbits in Washington. $184,726. PI L. Shipley. 11/23 – 6/25.

Mapping and protecting rock habitat in the Cascades Mountains for the conservation of climate sensitive species. $791,435. PIs. A. Meddens, B. Bright, L. Shipley, A. Stahl, M. Camp, and A Hudak. 11/23 – 10/27.

Relating talus characteristics to habitat use by vulnerable alpine mammals in a changing climate. $68,335. Seattle City Light. PIs. L. Shipley, A. Meddens, A. Stahl, M. Camp, J. Ransom. 6/1/23 – 5/31/25.

WSU Coop Jackrabbit Project. $30,486. Washington Department of Fish and Wildlife. PIs: L. Shipley and D. Thornton. 9/22 – 6/30/23

WSU Coop Shrubsteppe Project. $20,162. Washington Department of Fish and Wildlife. PIs: L. Shipley and D. Thornton. 3/22 – 2/23.

Climate adaptability and ecological connectivity of wildlife communities in multi-use sagebrush steppe landscapes. $343,000. Northwest Climate Adaptation Science Center. PIs: D. Thornton, L. Shipley, S. Woodley, 1/1/23 – 12/31/25.

Bighorn sheep diet composition and DNA metabarcoding validation. $48,517. Idaho Fish and Game. P.I.: L. Shipley (2/1/21-1/31/23).

Effects of Conservation Reserve Program on Mule Deer in the Blue Mountains. $63,430. Washington Department of Fish and Wildlife. P.I.: L. Shipley. (5/15/21-5/14/23).

Assessing Wildlife Occupancy in Working Landscapes in East-Central Washington.$154,591. USDA/NRCS/Rocky Mountain Cooperative Ecosystem Studies Unit. P.I.: L. Shipley and D. Thornton. 9/16/20-8/21/24.

Effects of Wildfire and Forest Restoration on Lynx, Deer, and Other Wildlife in Northeast Washington. $70,988. USDA Forest Service. P.I.: D. Thornton and L. Shipley. 5/22/19 – 8/31/21.

Monitoring forest wildlife. $34,574. United States Forest Service. P.I.: D. Thornton and L. Shipley (4/18-8/19)

Characterizing Movement Patterns of Sage-Grouse through High-Resolution Radiotelemetry. $24,206 Department of Interior. P.I.: D Thornton and L. Shipley. 6/26/2015 - 6/25/2020

Northeast Washington CFLRP Deer Monitoring $299,678. United States Forest Service P.I.: L. Shipley (6/14 – 6/19).

Influence of fuel reduction treatments on the nutritional ecology of mule and white-tailed deer in northeastern Washington. $213,620. Washington Department of Fish and Wildlife P.I.: L. Shipley (6/14 – 6/19).

Collaborative Research: Modeling tradeoffs within food-, fear-, and thermal-scapes to explain habitat selection by mammalian herbivores. $360,272 (WSU) $950,000 (Team). NSF. P.I.: L. A. Shipley. (5/12 – 5/16).

The influence of nutrition and toxins in selection of sagebrush plants by sage grouse. S. J. Murdock Charitable Trust – Partners in Science. P.I. :L. A. Shipley and R. Perleberg. $15,000. (2/12 – 2/14).

The Influence of Forest Herbicides on the Nutritional Ecology of Black-tailed Deer in Western Washington. $200,000. Washington Department of Fish and Wildlife. P.I. : L. A. Shipley, M. Swanson, J. Cook, R. Cook. (6/11 – 5/14).

The Influence of Forest Herbicides on the Nutritional Ecology of Black-tailed Deer in Western Washington. $75,000. Muckleshoot Indian Tribe. P.I. L. A. Shipley, M. Swanson, J. Cook, R. Cook. (1/12 – 12/14).

Assessing the Effectiveness of Targeted Cattle Grazing for Improving Wildlife Habitat on Wildlife Management Areas in Asotin County, Washington. Washington Department of Fish and Wildlife. Supplements - $30,814. P.I.: L. A. Shipley, and L. Hardesty. (3/08 – 3/14)

A Comparison of Habitat Selection by Two Sympatric Grouse Species following Translocation. Bureau of Land Management. $79,300. P.I.: L. A. Shipley (1/10 - 8/15)

Assessing the prey base for ferruginous hawks: developing a monitoring protocol for jackrabbits in Washington. Bureau of Land Management. $22,500. P.I. L. A. Shipley. 9/10-9/15.

Captive breeding and restoration of the endangered Columbia Basin pygmy rabbit. $42,841. Washington Department of Fish and Wildlife. P.I.: L. A. Shipley. (3/11 - 9/11)

Sage grouse habitat mapping and analysis. Bureau of Land Management. $25,000. P.I.: L. A. Shipley (1/10 - 12/11)

Captive breeding and restoration of the endangered Columbia Basin pygmy rabbit. $98,164. Washington Department of Fish and Wildlife. P.I.: L. A. Shipley. (3/10 - 3/11)

Landscape restoration and spatial responses of bighorn sheep in Sinlahekin Wildlife Management Area. Washington Department of Fish and Wildlife. $30,000. Co-P.I: M. E. Swanson and L. A. Shipley. (5/10-8/12).

A Comparison of Habitat Selection by Two Sympatric Grouse Species following Translocation. Bureau of Land Management. $20,000. P. I.: L. A. Shipley. (1/09 - 12/09)

Testing effects of host variation on development, survival and fecundity of the tick *Dermacentor andersoni.* WSU Internal Seed Grant. $16,900. P.I. J. Owen, Co-P.I.'s G. Scoles and L. A. Shipley. 5/09-8/10.

Captive breeding and restoration of the endangered Columbia Basin pygmy rabbit. Washington Department of Fish and Wildlife. Co-P.I.: L. A. Shipley and R. Sayler. $90,846. (8/08-8/09).

Assessing the Effectiveness of Targeted Cattle Grazing for Improving Wildlife Habitat on Wildlife Management Areas in Asotin County, Washington. Washington Department of Fish and Wildlife. $428,802. P.I.'s L. A. Shipley, and L. Hardesty. (3/08 – 3/12)

Captive breeding and restoration of the endangered Columbia Basin pygmy rabbit. Washington Department of Fish and Wildlife. $153,626. Co-P.I.: L. A. Shipley and R. Sayler. 6/07 – 5/08.

Movements of pronghorn in Owyhee region of southeastern Oregon. Oregon Department of Fish and Wildlife. $76,678. P.I. L. A. Shipley (8/15/07 – 8/14/09).

Ecology of badgers in eastern Washington. Washington Department of Fish and Wildlife. $3000. P. I. L. A. Shipley (10/06 – 12/07)

Ecology of badgers in eastern Washington. National Fish and Wildlife Foundation. $86,710. P.I.: L. A. Shipley. (5/06-12/07)

Home range and habitat selection of North American badgers. Bureau of Land Management. $25,000. P.I.: L. A. Shipley (4/06 – 5/07)

Home range and habitat selection of North American badgers. Bureau of Land Management. $29,133 P.I.: L. A. Shipley. (5/05–4/06)

North temperate ecosystem level responses to enhanced UV-B radiation. USDA UVB Monitoring and Research Program/CSU. $67,500. P.I: J. H. Bassman and L. A. Shipley. (8/05-7/06)

Captive breeding and restoration of the endangered Columbia Basin pygmy rabbit. Washington Department of Fish and Wildlife. Co-P.I.: L. A. Shipley and R. Sayler. $115,200. (5/05-5/06).

Effects of forage enhancement on Roosevelt elk in the Wynoochee River Valley of Western Washington. Rocky Mountain Elk Foundation. $15,000. P.I.: L. A. Shipley and E. Lopez-Perez. (8/04/7/05).

North temperate ecosystem level responses to enhanced UV-B radiation. USDA UVB Monitoring and Research Program/CSU. $67,500. P.I: J. H. Bassman and L. A. Shipley. (8/04-7/05)

North-temperate ecosystem level responses to enhanced UV-B radiation. USDA UVB Monitoring and Research Program. $76,643. P.I.: J. H. Bassman, L. A. Shipley, and R. Robberecht (8/03-7/04).

Evaluating the benefits of mitigation fields to Roosevelt elk on the Olympic Peninsula. Washington Department of Fish and Wildlife. P.I.: L. A. Shipley. $20,000. (6/03-6/04).

Captive breeding and restoration of the endangered Columbia Basin pygmy rabbit. Washington Department of Fish and Wildlife. Co-P.I.: L. A. Shipley and R. Sayler. $81,500. (6/04-4/05).

Captive breeding and restoration of the endangered Columbia Basin pygmy rabbit. Washington Department of Fish and Wildlife. Co-P.I.: L. A. Shipley and R. Sayler. $94,000. (4/03-6/04).

Captive breeding and restoration of the endangered Columbia Basin pygmy rabbit. Washington Department of Fish and Wildlife. Co-P.I.: L. A. Shipley and R. Sayler. $71,000. (5/02-4/03).

Captive breeding and restoration of the endangered Columbia Basin pygmy rabbit. Washington Department of Fish and Wildlife. Co-P.I.: L. A. Shipley and R. Sayler. $28,000. (8/01-6/02).

Predation and nutrition of mule deer in North-central Washington. Bonneville Power Administration. Co-P.I.: R. Wiegus, L.A. Shipley, W. Myers, and C. T. Robbins. $1,200,000 (8/01-7/06) --

Acquisition of a stable isotope mass spectrophotometer facility for life sciences studies. National Science Foundation. Co-P.I.: R. Lee, G. Edwards, co-leaders: K. A. Johnson, C. T. Robbins, M. L. Kahn, L. A. Shipley, M. K. McGuire. $288,889 (8/01-7/04).

Collaborative Research: Responses of mammalian herbivores to spatial heterogeneity expressed at multiple scales. National Science Foundation, Ecology Program. $450,000. Co P.I: L. A. Shipley, N. T. Hobbs, B. A. Wunder, and Thomas (5/00-5/03).

The ecology and population dynamics of small antelope in the Matopos National Park, Zimbabwe. Disney Conservation Fund. $5000. Co P.I: L. A. Shipley, A. Plowman. (6/00-6/01).

Effect of livestock grazing on pygmy rabbits in Eastern Washington. Washington Department of Fish and Wildlife. $90,000. Co-PI: R. Sayler, L. A. Shipley, and L. Hardesty. (10/99-10/02).

Ecological correlates of reproductive season in Eld's deer (*Cervus eldii*) in Chatthin Wildlife Sanctuary, Myanmar Thailand. Smithsonian Institution, Scholarly Studies Foundation. $70,000. PI: S. Monfort. Co-Investigators: C. Wemmer, W. McShea, L. Shipley. (10/98-10/01)

Evaluating Wolfin as a repellent to wildlife on roads in Washington.Washington State Department of Transportation. $25,000. (9/97-9/99). Co-P.I.: L. A. Shipley, D. Nolte, J. Schafer.

Predicting nutritional value of foods for beavers USDA, Forest Service. $80,000. (4/98 - 5/01) Co-P.I.: L. A. Shipley and T. A. Hanley.

Influence of white-tailed deer on survival and density of rare and endangered spring wildflowers in the Potomac Basin. Washington Biologists' Field Club. $1926. (7/96-7/97).P.I.: L. A. Shipley.

Developing a remote system for marking wildlife: a method for studying rare and secretive mammals in the neotropics Frostburg State University, Faculty Development Grants.$750. (5/96-6/96). P.I.: L. A. Shipley

Influence of white-tailed deer on rare spring wildflowers in the Appalachian mountains. Smithsonian Institution. $4800 (3/95-3/96). P.I.: L. A. Shipley

Foraging decisions of mammalian herbivores: optimal bite size and patch dynamics. National Science Foundation, International Programs. $28,220. (6/94-8/95). P.I.: L. A. Shipley.

RECENT MEDIA COVERAGE OF RESEARCH AND TEACHING

Source: Washington National Park Fund
Pika power: Volunteers power alpine wildlife research at Mount Rainier
https://wnpf.org/2025/10/03/pika-power-volunteers-power-alpine-wildlife-research-at-mount-rainier/

Source: MSN
April 21, 2025
In Wyoming, the Eastern Shoshone tribe decided to classify buffalo as wildlife. Here is why

Hunter Conservationist Podcast
Episode 125 - Whodunit? Deer Populations in a multi-predator landscape with Dr. Taylor Renee Ganz • The Hunter Conservationist Podcast (spotify.com)

Foraging rabbits. Science Nation. National Science Foundation.
https://www.nsf.gov/news/special_reports/science_nation/foragingrabbits.jsp

Chasing pygmy rabbits in the desert. Slate.
http://www.slate.com/articles/video/video/2016/11/sagebrush_steppe_is_under_threat_scientist_study_rabbits_to_help.html

https://cas.wsu.edu/news/2023/07/15/this-american-land-explores-confronting-sea-level-rise-protecting-wyoming-public-lands-revising-forest-plans/

Ocelot message boards. Science Magazine.
http://www.sciencemag.org/news/2016/12/ocelot-bathrooms-are-meeting-place-several-central-american-mammals

Women in wildlife. Spokesman Review newspaper
http://www.spokesman.com/stories/2019/jan/24/women-in-wildlife/

Saving sage grouse by relocation. CAHNRS news.
http://news.cahnrs.wsu.edu/article/saving-sage-grouse-by-relocation/

Watching marmots. Cascadia Magazine
https://www.cascadiamagazine.org/features/watching-marmots/?fbclid=IwAR0pOqFL4TsNtTgGYOVSIeiULNyblCdbkxG2Ku7eCCzj-Xe8pz6IwVDqMjA

Our work mapping the nutritional quality of sagebrush across landscapes was translated into Spanish and disseminated.
Project Scientia spreads science, celebrates Spanish.
https://www.boisestate.edu/news/2020/12/04/project-scientia-spreads-science-celebrates-spanish/
"Mapeo del paisaje alimentario de la artemisa usando drones" https://www.idahogem3.org/spanish-translation-scientia, https://youtu.be/tQYKXXJ7-xE

https://news.wsu.edu/news/2022/08/02/habitat-survey-sheds-light-on-survival-of-iconic-mule-deer/

TEACHING:

Courses designed and taught:

Current:
Wildlife Ecology (SOE 435, 2019-24, online in 2021)
Methods in Wildlife Ecology (NATRS/SOE 310, 2012-21, online in 2020, 2024)
Foraging Ecology of Herbivores (NATRS 556 2000, 03, 09, 11, 14, 17, 20, 23)
Graduate Skills Seminar (SOE 501, 2018, 2024)

Previous:
Wildlife Habitat Ecology (NATRS 446, 2012-14)
Graduate Seminar in Natural Res. Sci. (NATRS 595, 1998, 2002-05,07,10,12,14)
Introductory Wildlife Management (NATRS 280, 1997-11)
Advanced Wildlife Management (NATRS 436/536, 1997-11)
Natural Resources Ecology (with J. Bassman, NATRS 300, 1997)
Wildlife Techniques (BIOL 330, FSU, 1995-96)
Ecology and Mgmt.of Wildlife Populations (BIOL 450/550, FSU,1995-96),
Island Biogeography and Reserve Design (BIOL 641, FSU, 1995)
Scientific Communication and Investigation (BIOL 200, FSU, 1996)
Wildlife Techniques Lab (Texas A&M, 1992)

Guest lectures:
Wildlife Habitat Ecology (SOE 446, 2018)
An Introduction to our environment (SOE 100, 2018, 2023)
Introduction to Animal Science, Anim_Sci 101 (2014-23)
Wildlife Management (WLF 492, University of Idaho, 2015-16)
Wildlife Ecology 1(University of Idaho, WLF314, 2001-05, 07-12, 2020-23)
Introduction to Natural Resource Management (NATRS100,WSU,1997-2000,09-11)
Foraging Behavior of Rangeland Herbivores (University of Idaho, Graduate course, 1998)
Graduate Seminar (NATRS 595, WSU, 2000,11,12,14)
Graduate Skills Seminar (SOE 501, 2019, 2010, 2020-21)
Global Issues in the Sciences (Honors 390, 2018-21)

Workshops:
Nutritional Ecology Workshop (Pullman, WA, Aug 17-19, 2021; Kingsville, TX, Nov 15-18, 2023; Palmer, AK, June 9-13, 2025)

Invited teaching seminars:

Shipley, L. A. 2020. Presentation and activity on community ecology and food webs for Coeur D'alene Tribe's Environmental Education Internship Program.

Shipley, L. A. 2007. Wacky and wonderful wildlife Down Under. WSU student chapter of The Wildlife Society. Pullman, Washington. April.

Shipley, L. A. 2006. Maximizing the impact of service learning: A top down and bottom up approach. Opening remarks and panelist for Service Learning Forum. Pullman, WA. May.

Shipley, L. A. 2005. Does just wanna have fawns. Whitman Country Sportsman's Association, Pullman, WA

Shipley, L. A. 2003. Linking nutrition to reproduction in declining mule deer populations. Asotin County Sportsman's Association, Clarkston, Wash. March.

Shipley, L. A. 2003. Ecology and Restoration of Endangered Columbia Basin Pygmy Rabbits Palouse Audubon Society, Moscow, ID. October.

Shipley, L. A. 2003. Landscape disturbance and wildlife management. Ecosystem Management and Landscape Ecology Course, Washington State University, Pullman, WA. April.

Shipley, L. A. 2002. Declining mule deer in Washington: Links between nutrition and reproduction. Whitman County Sportsman's Association. November.

Shipley, L. A. 2001. Ecology and restoration of endangered pygmy rabbits in Washington. Kiwanis, Pullman, WA. July 2001.

Shipley, L. A., D. Swanson, and T. Rane. 2000. Directed experience: The good, the bad, and the ugly. Western Region Teaching Conference, October, WSU.

Shipley, L. A. 1999. Enhancing reflection activities in relation to service learning in Introductory Wildlife Management. Community Service Learning Center Faculty Forum, April 1999, WSU.

Shipley, L. A. 1998. Radiotelemetry as a tool in wildlife science. 8th Annual Agriscience Leadership Experience "Agriculture: Real Science, Real Solutions", College of Agriculture and Home Economics, WSU.

Shipley, L. A., and L. A. Felicetti. 1997, 1998 Beep… beep…beep. Where in the world is that animal? Natural Resources for Girls Workshop, Moscow, ID.

Shipley, L. A. 1996. Women in science and academics in the U.S. Invited seminar for Swedish University of Agricultural Sciences, Umeå, Sweden.

GRADUATE STUDENT SUPERVISION

Master's theses

Kurlychek, C. (in progress, target 12/25). Movements and habitat selection of black-tailed and white-tailed jackrabbits in Washington. Washington State University, Pullman, WA.

Hill, T. (co-advisor) 2025. Using accelerometers to monitor progression of elk hoof disease. School of the Environment, Washington State University, Pullman, WA.

Ferreira, A. 2025. Relating talus characteristics to habitat use by vulnerable alpine mammals in a changing climate. School of the Environment, Washington State University, Pullman, WA.

Denny, K. (co-advisor) 2024. Where there's smoke there's fire: how mixed severity wildfire affect a community of wildlife species. School of the Environment, Washington State University, Pullman, WA

Stift, A. (co-advisor) 2024. Sagebrush steppe wildlife in a working landscape: Habitat use, abundance, and detection. School of the Environment, Washington State University, Pullman, WA.

Hellesto, R. 2023. Effects of Conservation Reserve Program on Mule Deer Habitat Selection, Movement, and Vital Rates in Southeastern Washington. School of the Environment, Washington State University, Pullman, WA.

Anderson, C. (co-advisor) 2022. Assessing efficacy of random encounter models for low density populations using unmarked mule deer and coyotes. School of the Environment, Washington State University, Pullman, WA.

Kahler, A. (co-advisor), 2021. Smooth-coated otters and North American beaver detection with environmental DNA: Informing sampling design for conservation and management. School of the Environment, Washington State University, Pullman, WA.

Whiles, L. (co-advisor, 2021) Effects of montane carnivores on marmot declines in North Cascades National Park. School of the Environment, Washington State University, Pullman, WA.

Staudenmeier, A. 2020. Habitat and dietary niches of mule and white-tailed deer in northeastern Washington. School of the Environment, Washington State University, Pullman, WA.

Monzingo, D. 2020. Developing models for nutritional carrying capacity for elk in the Clearwater Basin of Idaho. School of the Environment, Washington State University, Pullman, WA.

Heale, J. 2018. Movement patterns of resident and translocated Columbian white-tailed deer. School of the Environment, Washington State University, Pullman, WA.

Hull, I. 2018. Predicting the effects of thinning and prescribed burning on mule and white-tailed deer in Northeastern Washington. School of the Environment, Washington State University, Pullman, WA.

Ebenoch, K. (co-advisor) 2018. Comparing population vital rates of resident and translocated greater sage-grouse on the Yakima Training Center, Yakima, WA. School of the Environment, Washington State University, Pullman, WA.

Berry, S. 2017. Comparison of nutritional and foraging ecology of mule and white-taileded deer in northeastern Washington. School of the Environment, Washington State University, Pullman, WA.

Crowell, M. 2015. Food and fearscapes: Responses of specialist and generalist rabbits to diet and predation risk School of the Environment, Washington State University, Pullman, WA.

Baker, T. 2015. (co-advisor). Responses of bighorn sheep to forest restoration activities. M. S. Thesis, Dept. Natural Resource Sciences, Washington State Univ., Pullman, WA.

Stonehouse, K. 2013. A comparison of survival, productivity, and habitat selection by sympatric, translocated sage and sharp-tailed grouse. M. S. Thesis, Dept. Natural Resource Sciences, Washington State Univ., Pullman, WA.

Wagoner, S. 2011. Assessing the Effectiveness of Targeted Cattle Grazing for Improving Wildlife Habitat on Wildlife Management Areas in Asotin County, Washington. M. S. Thesis, Dept. Natural Resource Sciences, Washington State Univ., Pullman, WA.

McCusker, S. 2009. An evaluation of commercial diets for wild browsing herbivores. M. S. Thesis, Dept. Natural Resource Sciences, Washington State Univ., Pullman, WA.

Dalton, K. 2009. Movements of pronghorn in southeastern Oregon. M. S. Thesis, Dept. Natural Resource Sciences, Washington State Univ., Pullman, WA.

Paulson, N. 2007. Spatial and habitat ecology of North American badgers 9Taxidea taxus) in a native shrubsteppe ecosystem of eastern Washington. M. S. Thesis, Dept. Natural Resource Sciences, Washington State Univ., Pullman, WA.

Kuhn, E. 2006. Nutritional ecology of blue duikers. M. S. Thesis, Dept. Dept. Natural Resource Sciences, Washington State Univ., Pullman, WA.

Johnstone-Yellin, T. 2004. Body condition and survival of mule deer fawns in Eastern Washington. M.S. Thesis, Dept. Natural Resource Sciences, Washington State Univ., Pullman, WA.

Davila, T. 2004. Nutritional ecology of the Columbia Basin pygmy rabbit. M.S. Thesis, Dept. Natural Resource Sciences, Washington State Univ., Pullman, WA.

Huenefeld, R. E. 2002. Trade-offs between vigilance and foraging made by woodland caribou in response to group size and forest structure. Department of Natural Resource Sciences, Washington State Univ., Pullman, WA.

Siegel, N. J. 2002. Effect of livestock grazing on pygmy rabbits in Eastern Washington. Dept. of Natural Resource Sciences, Washington State Univ., Pullman, WA.

Vandervelde, T. 2001. Responses of mammalian herbivores to spatial heterogeneity at multiple scales. Dept. of Natural Resource Sciences, Washington State Univ., Pullman, WA

Fletcher, J. D. 1999. The effects of herbivory by white-tailed deer (*Odocoileus virginianus*) on the survival and distribution of native wildflowers. Dept. of Biology, Frostburg State Univ., Frostburg, MD.

Wenninger, P. S. 1999. A comparison of digestion, rumination, harvesting, and passage on fruit and leaf diets by blue duikers. Dept. of Biology, Frostburg State Univ., Frostburg, MD.

Felicetti, L. A. 1998. Dry matter, fiber, and nitrogen digestibility of natural forages eaten by North American porcupines (*Erethizon dorsatum*). Dept. of Natural Resource Sciences, Washington State Univ., Pullman, WA.

Ph.D. Dissertations

Stift, A. (in progress, target 2028). Mapping and protecting rock habitat in the Cascades Mountains for the conservation of climate sensitive species. School of the Environment, Washington State University, Pullman, WA.

Anderson, K. 2025.. The effect of plant diversity on microbiome and performance in herbivores, Washington State University, Pullman, WA.

Olsoy, P. (co-advisor, 2019). Habitat mapping and multi-scale resource selection of pygmy rabbits with unmanned aerial systems, Washington State University, Pullman, WA.

Camp, M. 2017. The balancing act of foraging: Mammalian herbivores tradeoff multiple risks when selecting food patches, Washington State University, Pullman, WA.

Ulappa, A. 2015. Influence of forest herbicides on nutritional ecology of black-tailed deer, Washington State University, Pullman, WA.

Cook, R. 2011. Links between forage quality and heterogeneity of forage use at multiple scales by elk. Ph.D. Dissertation, Department of Natural Resource Sciences, Washington State Univ., Pullman, WA.

Johnstone-Yellin, T. 2010. Effects of resource availability on life history traits of herbivores. Ph.D. Dissertation, Department of Natural Resource Sciences, Washington State University, Pullman, WA.

Tollefson, T. 2007. Effects of summer-autumn forage quality on reproduction in mule deer. Ph.D. Dissertation, Department of Natural Resource Sciences, Washington State Univ., Pullman, WA.

Thines, N. J. Siegel. 2006. Effects of Enhanced Solar UV-B Radiation On Secondary Metabolites In Forage Plants And Consequences For Mammalian Herbivores, Ph.D. Dissertation, Department of Natural Resource Sciences, Washington State Univ., Pullman, WA.

Lopez-Perez, E. 2006. Effects of forage enhancement on Roosevelt elk in the Wynoochee River Valley of Western Washington. Ph.D. dissertation, Department of Natural Resource Sciences, Washington State Univ., Pullman, WA.

Postdoctoral researchers

Woodley, S. 2021-2024. Assessing wildlife occupancy in working sagebrush-steppe landscapes in East-Central Washington (with D. Thornton).

Hernandez Volpato, G. 2019-20. Effects of fire severity on vertebrate communities in Douglas-fir/Ponderosa pine forests in northeastern Washington (with D. Thornton).

Camp, M. 2017-19. Comparing physiology, habitat occupancy and population densities of mule and white-tailed deer in northeastern Washington.

Wiggins, N. 2012-13. Fulbright fellow. Selection for sagebrush species by pygmy rabbits. (together with J. Forbey at Boise State University)

McClure, M. 2002-06. Movement patterns and intake rates of woolly bears in scale-invariant environments.

UNDERGRADUATE RESEARCH & PROJECT SUPERVISION

P. Mendoza-Zamora	McNair research	2025	WSU	Jackrabbit occupancy
I. Ellard	Honors thesis	2024	WSU	Chemical preference of deer
J. Vander Haegen	Honors thesis	2024	WSU	Science communication
H. Holman	Honors thesis	2022	WSU	Reintroduction of caribou (Gray award)
K. Hesler	Honors thesis	2022	WSU	Camera trap damage
P. Bennett	Honors thesis	2022	WSU	Fawn habitat
C. Lambeth	Honors thesis	2021	WSU	Raptor flushing distance
B. Tovar	Honors thesis	2020	WSU	Social behavior of otters
B. Battersby	Internship	2020	WSU	Wildebeest behavior & genetics
L. Crisotomo	Internship	2020	WSU	Teaching assistant
M. Soiseth	Internship	2019	WSU	Deer digestion

J. Chapman	Honors thesis	2019	WSU	Space use & social behavior in pikas
K. Dahlin	Honors thesis	2018	WSU	Digestion & detoxification of deer
C. Cheney	Special project	2017	WSU	Salivary gland size in deer
L. Rose	Honors thesis	2017	WSU	Odor cues used by deer
B. Tegt	Honors thesis	2017	WSU	Pika diet composition
C. Ellinsgen	Honors thesis	2016	WSU	Nutrition of cheetahs
Q. Zenino	IGNITE scholar	2016	WSU	Nutrition of deer diets
M. Durham	Special project	2016	WSU	Rabbit response to thermal refuge
C. Kightinger	IGNITE scholar	2016	WSU	Measuring animal personality
D. Navarro	McNair research	2015-16	WSU	Calibrating accelerometers
E. Koch	Special project	2015	WSU	Fawn growth
K. Wat	Special project	2014	WSU	Elk habitat selection
A. Rus	Special project	2014	WSU	Grouse nest success
L. Weyand	Special project	2014	WSU	Distance vs. food
M. Wagner	Internship	2013	WSU	Pygmy rabbit husbandry
M. Crowell	Special project	2012	WSU	Choice of food qual. in pygmy rabbits
K. Jones	Honor’s thesis	2012	WSU	Use of sea turtles in Madagascar
M. Iredale	Honor’s thesis	2012	WSU	Terpene tolerance in deer
A. Adams	Internship	2012	WSU	Zoo internship
J. Schuster	Special project	2012	WSU	Wildlife rehabilitation
K. Meline	Special project	2012	WSU	Western pond turtles
K. Wollstein	Honor’s thesis	2011	WSU	Australian amphibians
J. Brandvold	Honor’s thesis	2011	WSU	African wildlife abundance
C. Anderson	Internship	2011	WSU	Riparian habitat
R. Byington	Internship	2011	WSU	Fish hatchery management
Z. Oppenheimer	Internship	2011	WSU	Training mule deer fawns
H. Panaro	Internship	2010	WSU	Pygmy rabbit husbandry
F. Paige	Internship	2010	WSU	Grouse movements
M. Watkins	Internship	2010	WSU	Zoo nutrition & telemetry
A. Burleson	Internship	2010	WSU	Pygmy rabbit husbandry
C. Freeman	Internship	2009	WSU	Pygmy rabbit husbandry
K. Jones	Special project	2009	WSU	Pygmy rabbit husbandry
K. Haley	Special project	2009	WSU	Pygmy rabbit husbandry
E. Olk	Internship	2009	WSU	Pygmy rabbit husbandry
K. Stewart	Internship	2009	WSU	Pygmy rabbit husbandry
J. Oetinger	Internship	2009	WSU	Biodiversity in Costa Rica
J. Turner	Internship	2009	WSU	Mule deer husbandry
J. McDonald	Internship	2009	WSU	Mule deer husbandry
A. Thresher	Honor’s thesis	2009	WSU	Endangered livestock breeds
J. Mosely	Special project	2009	WSU	Woolly bear growth
M. Leiper	Internship	2009	WSU	Pygmy rabbit husbandry
D. Machinski	Internship	2009	WSU	State Park management
T. Harvey	Internship	2009	WSU	State Park management
I. Gilbert	Internship	2009	WSU	Avian flu monitoring
C. Schudel	Internship	2008	WSU	Mule deer nutrition
J. Harper	Internship	2008	WSU	Invasive plants
P. Fujihara	Internship	2008	WSU	Raptor rehab in Dubai
E. Moon	Internship	2008	WSU	Pygmy rabbit husbandry
H. Starr	Internship	2008	WSU	Pygmy rabbit husbandry
C. Read	Internship	2007	WSU	Training fawns for diet studies
G. Rasmussen	Internship	2007	WSU	Grizzly foraging in YNP
J. Erlenbach	Internship	2007	WSU	Grizzly foraging in YNP
A. Jones	Internship	2007-08	WSU	Pygmy rabbit husbandry
L. Dailey	Internship	2007-08	WSU	Pygmy rabbit husbandry
A. Williams	Special Project	2007	WSU	Detecting sagebrush with NIRS
G. Watson	Senior thesis	2006	WSU	Half-A WHIP project

A. Nielson	Senior thesis	2006	WSU	Gestation in pygmy rabbits
J. Pope	Senior thesis	2006	WSU	Digestibility in deer
S. McCusker	Internship	2005	WSU	Internship in Australia
K. Clayton	Internship	2005	WSU	PNNL internship on raptors
E. Kuhn	Senior thesis	2004	WSU	C13 to measure food passage
G. Wilson	Senior thesis	2004	WSU	Nonsoil breeding of pygmy rabbits
J. Jackson	Senior thesis	2004	WSU	Handrearing pygmy rabbits
R. Gerlinger	Senior thesis	2004	WSU	HSI for Northern leopard frogs
J. Jackson	Internship	2004	WSU	Managing wild cats in captivity
R. Gerlinger	Internship	2003	WSU	Habitat Suitability Index Modelling
Z. Holderby	Honor's thesis	2003	WSU	Perceptions of ecosystems
D. Ravenol	Internship	2002	WSU	Health and life history of prairie dogs
M. Monahan	Senior thesis	2002	WSU	Growth of hand-raised mule deer
J. Herin	Senior thesis	2002	WSU	Dispersal of pygmy rabbits
J. Capelli	Senior thesis	2002	WSU	Social dominance in mule deer
L. Hughs	Senior thesis	2002	WSU	Fecal progesterone in pygmy rabbits
C.Lindstrand	Special project	2002	WSU	Behavior and enrichment of duikers
T. Waters	Special project	2002	WSU	Diet composition of owls
H. Dudley	Honor's thesis	2002	WSU	Riparian restoration
B. Elias	Special project	2001-2002	WSU	Environmental education
A. Conrath	Honor's thesis	2002	WSU	Home range of mule deer
M. Fisher	Special project	2000	WSU	Functional response of caribou
M. Cleland	Special project	2000	WSU	Gain function of caribou
C. Sipe	Special project	1999	WSU	Diet selection by porcupines
A. Winters	Senior thesis	1999	WSU	Rumination and passage of duikers
K. Berg	Special project	1998	WSU	Harvesting by duikers
L. Schwartz	Senior thesis	1998	WSU	Patch departure of caribou
J. Bloomfield	Internship	1998	WSU	Interpretation of captive wolves
S. Jenkins	Senior thesis	1997	WSU	Passage of duikers & porcupines
N. Strand	Special projects	1997-1998	WSU	Harvesting by porcupines
H. Degrow	Howard Hughes Fellow	1997-1998	WSU	Effects of tannins on duikers
K. Cooper	Senior thesis	1997	WSU	Effects of tannins on rabbits
R. Bivens	Senior thesis	1996	FSU	Effects of environmental education

OTHER RESEARCH SUPERVISION

D. Jacobsen	High school student	2012	Food preference by mule and black-tailed deer
R. Perleberg	High school teacher	2012-14	Preference for sagebrush by sage grouse

EXTRAMURAL FUNDING FOR TEACHING

Students helping private landowners improve wildlife habitat in Washington: A pilot project combining Community Service Learning and WSU Extension, Community Service Learning Center Pilot Project, Washington State University, $1500 (8/03-12/03) Co-P.I.'s: L. A. Shipley and J. Creighton.

Evolution and Behavior: An interdisciplinary Seminar Series, Office of Research, WSU $4900 (8/03-8/04) Co-P.I.'s: M. Collard, L. Corley, T. Kohler, W. Lipe, R. Newberry, C. Parks, H.Schwabl, S. Sheppard, L. Shipley, G. Thorgaard, P. Verrell, M. Webster.

Enhancing reflection activities in relation to service learning in Introductory Wildlife Management. Community Service Learning Center Minigrant, Washington State University, P. I.: L. A. Shipley. $750. (7/98)

Field experiences for wildlife students: a hands-on conservation project in the Appalachian ecosystem Frostburg State University, Faculty Development. $1200. (10/95-10/96). P.I.: L. A. Shipley

SERVICE

Professional Service

- Member of the Lagomorph Specialist Group for IUCN (2018 to present)
- Ph.D. Opponent, Mid-Sweden University (2015)
- Associate Editor, Journal of Mammalogy (2011-14)
- External reviewer for 8 tenure and promotion packages
- President-elect, Northwest Section of The Wildlife Society (2011-13)
- Review panel for NSF Integrative Ecological Physiology (16) Ecology of Infectious Disease program (07, 08, 15), Dissertation Enhancement grants DEB (10), East Asia and Pacific Summer Institutes Program (04), Integrative Ecological Physiology (16)
- External reviewer for Ph.D. dissertation, Australian National University (06, 07, 20)
- Review panel for John Pierce Award (2020)
- Review panel for Canon research fellowships (05) and Mazuri nutritioin grants (17)
- Ad hoc reviewer for NSF, Ecology, American Naturalist, Oecologia, Journal of Wildlife Management, Journal of Chemical Ecology, Physiological and Biochemical Zoology, Functional Ecology, Journal of Animal Ecology, Journal of Range Management, Wildlife Monographs, Tropical Ecology, Northeastern Naturalist, Northwest Science, Forest Ecology and Management, Natural Areas Journal, Acta Oecologia (among others)
- Member of The Wildlife Society (86-present), Nutrition Working Group (19-present)
- Member of Comparative Nutrition Society (95-00)
- Member of Ecological Society of America (90-93)
- Member of American Society of Mammalogists (88, 07-08, 11-present)
- Member of American Zoo and Aquarium Association (97)
- Member of Xi Sigma Pi (85-present)
- Serve on Pygmy Rabbit Science Advisory Board (01-present)
- Serve on USFWS Pygmy Rabbit Recovery Team (03-17)
- Served on Faculty Search committee for Department of Wildlife at University of Idaho (00, 15)

Service to Department/School

Washington State University

- Graduate studies committee (11-14, co-chair, 2018-2022, chair 2022-23)
- Visioning committee (2018)
- Undergraduate Studies committee (chair, 14-16)
- Advising Task Force (chair, 15)
- Faculty search committee (chair:12-13, 15-16, 18-19, 22-23, 23-24)
- Mentoring committee for 5 assistant professors (07-12, 14-19, 19+)
- Department Visions Committee (co-chair 08)
- Curriculum Committee (97-98, 03, chair 04-05, 09-12)
- Search Committees (Academic enrichment 98, Vancouver NRS 99-00, AP 08, Tri-Cites 16)
- Steffen Center Planning Committee (98-02), Director (18-present)
- Advisor/co-advisor to the WSU Student chapter of The Wildlife Society (97-present)
- Tour and lecture for Natural Resources Institute (98-99)

Frostburg State University

- Undergraduate Biology Curriculum Committee (95-96)
- Assessment and Newsletter Committee (95-96)
- Computer Committee (95-96)
- Greenhouse Committee (95-96)

- Library Committee (95-96)
- Orientation for new wildlife students (96)
- Served on search committee for wildlife faculty position (96)

Service to College

Washington State University

- Faculty Research Advisory Committee (15-20)
- Hatch chairs committee and Director of McIntire-Stennis Wildlife Umbrella Project(19-21)
- College of Arts and Sciences Undergraduate Advisory committee (15-16)
- CAHNRS Articulation committee (15-16)
- Forestry Program Task Force (13-14)
- CAHNRS T & P Revision Task Force (10-11)
- CAHNRS Promotion and Tenure Committee (05, 07-08)
- Women's history month committee (03-05)
- Hands-on radiotelemetry workshops for Agriscience Leadership Experience (98-00)
- Panel speaker for new faculty orientation (01)

Service to University

Washington State University

- Graduate Studies Committee (2018-21)
- WSU representative to the USGS Washington Cooperative Fish and Wildlife Research Unit (2018-present)
- Bear Center Task Force (14)
- Academic Integrity Board (13-15)
- Faculty Hearing Committee Panel (13)
- Faculty Status Committee (09-12)
- Task force chair for Implementation subcommittee for Goal 1.2 of Strategic Plan (04-05)
- Community Service Learning Advisory Board (98-03) Grants committee (99)
- Community Service Learning Strategic Planning Team (01)
- Tour and lecture for Summer Science Institute (97-98)

Frostburg State University

- Multicultural Education Work Group (1996)