

Elizabeth A. Flaherty

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Education

Ph.D. **Zoology and Physiology**, University of Wyoming, 2008
M.S. **Biology**, Southeast Missouri State University, 2002
B.S. **Wildlife and Fisheries Biology and Management**, University of Wyoming, 2000

Appointments

2013-present Assistant Professor of Wildlife Ecology and Habitat Management, Department of Forestry and Natural Resources, Purdue University, IN.
2014-present Adjunct Assistant Professor, Department of Zoology and Physiology, University of Wyoming, WY.
2011-2013 Assistant Academic Professional Lecturer, Life Sciences Program, Environment and Natural Resources Program, Department of Zoology and Physiology, University of Wyoming, WY.
2011-2013 Science Content Expert, Math and Science Partnership Grant, University of Wyoming and Converse County School District (WY), P.I. Jennifer Forrester.
2009-2010 Postdoctoral Research Associate, Department of Zoology and Physiology, University of Wyoming, WY.
2008-2009 Coordinator for NSF GK-1 Program, UW Science Posse: Enhancing Science Awareness and Understanding in Wyoming.
2006-2009 Instructor, Chemistry and Wildlife Biology Research courses, Upward Bound Summer Research Program, University of Wyoming, WY.

Honors and Awards

2018 North American Colleges and Teachers of Agriculture Teacher Educator Award
2017 Innovative Teaching Award, Association of Public and Land-Grant Universities
2017 Purdue University Advanced Intercultural Pedagogy Fellow
2016 Department of Forestry and Natural Resources, Purdue University William Hoover Service Award
2016 Purdue University College of Agriculture - Richard L. Kohls Early Career Award
2016 Purdue College of Agriculture Nominee for the USDA early career National Award for Excellence in College and University Teaching in the Food and Agricultural Sciences Program
2016 Purdue University Intercultural Pedagogy Fellow
2016 Purdue University IMPACT Fellow
2015 Teaching for Tomorrow, Purdue University
2015 Bravo Award, College of Agriculture, Purdue University
2013 T.S. Harris Award for Service to the Department of Zoology and Physiology, University of Wyoming
2013 Promoting Intellectual Engagement (PIE) Award, University of Wyoming
2012 University of Wyoming's James C. Hurst, Each Student – A Person Award
2006-2008 University of Wyoming National Science Foundation GK-12 Graduate Fellowship
2005 University of Wyoming Plummer Scholarship in Environment and Natural Resources
2005 University of Wyoming L. Floyd Clarke Graduate Scholar Award
2004 University of Wyoming Dr. George W. Menkins Memorial Scholarship

Publications

*denotes graduate student mentored in some capacity by E. Flaherty

denotes undergraduate student

Wildlife/Ecological Research Publications

- Ruhl, P.* , E.A. Flaherty, and J. Dunning. *In review*. Stable isotopes of plasma, red blood cells, feces, and feathers reflect a largely insectivorous diet for mature forest birds using early successional habitat during the post fledging period. *The Auk*.
- Trapp, S.E.* , **E.A. Flaherty**, P.A. Zollner, C.C. Day, and W.P. Smith. *In review*. Simulating impacts of timber harvest upon dispersal of the endemic Prince of Wales northern flying squirrel (*Glaucomys sabrinus griseifrons*). *Ecological Modeling*.
- Berl, J.L.* , K.M. Verble#, **E.A. Flaherty**, and R.K. Swihart. *In press*. Field discrimination of prairie deer mice (*Peromyscus maniculatus bairdii*) and white-footed mice (*Peromyscus leucopus noveboracensis*) using morphological characteristics. *Prairie Naturalist*.
- Berl, J.L., K.K. Kellner, **E.A. Flaherty**, and R.K. Swihart. 2018. Spatial variation in density of generalist mice along edges in fragmented habitat. *American Midland Naturalist* 179:38-50.
- Berl, J.L.* , A.J. Kunzi, **E.A. Flaherty**, and R.K. Swihart. 2018. Interspecific comparison of hantavirus prevalence in *Peromyscus* populations from a fragmented agro-ecosystem in Indiana. *Journal of Wildlife Diseases* 54:147-150.
- Eckrich, C.A.* , **E.A. Flaherty**, and M. Ben-David. 2018. Functional and numerical responses of shrews to competitive exclusion vary with mice density. *PLoS ONE* 13:e0189471. <https://doi.org/10.1371/journal.pone.0189471>
- Abercrombie, S.A.# , J.L. Berl* , **E.A. Flaherty**, and R.K. Swihart. 2017. Seasonal foraging by mice enhances loss of weed seeds from crop-field edges. *Northeastern Naturalist* 24 (Special Issue 8):5-17.
- Berl, J.* , **E. Flaherty**, B. Danielson, K. Kellner, and R. Swihart. 2017. Winter ecology of prairie deer mice (*Peromyscus maniculatus*) in cultivated habitats: implications for agricultural ecosystem services. *Agriculture, Ecosystems and Environment* 249:130-136.
- Berl, J.L.* , H.A. Johnstone#, J. Wu#, **E.A. Flaherty**, and R.K. Swihart. 2017. Winter preference for weed seed and waste grain by native mice in row-crop agriculture. *Weed Science* 65:406-412.
- Berl, J.L.* , M.M. Voorhees#, J.W. Wu#, **E.A. Flaherty**, and R.K. Swihart. 2017. Collection of blood from wild-caught mice (*Peromyscus* spp.) via submandibular venipuncture. *Wildlife Society Bulletin* 41:38-50
- Trapp, S.E.* , and **E.A. Flaherty**. 2017. Using noninvasive hair collection from a novel single-capture hair snare to address wildlife management questions. *Wildlife Society Bulletin* 41:770-775.
- Trapp, S.E.* , W.P. Smith, and **E.A. Flaherty**. 2017. Diet and food availability of the Virginia northern flying squirrel (*Glaucomys sabrinus fuscus*): implications for dispersal in a fragmented forest. *Journal of Mammalogy* 98:1688-1696.
- Eisinger, J.# , J.S. Scheibe, and **E.A. Flaherty**. 2016. Novel *Glaucomys volans* vocalizations in Indiana and evidence of geographic variation in high frequency communication. *Journal of Mammalogy* 97:1219-1227.
- Quakenbush, H.# , L. D'Acunto, **E.A. Flaherty**, and P.A. Zollner. 2016. Testing the efficacy of an acoustic lure on bat mist-netting success in North American central hardwood forests. *Journal of Mammalogy* 97:1617-1622.
- Flaherty, E.A.**, M. Ben-David, and J.N. Pauli. 2014. A comparison of locomotor performance and cost of transport between the semi-arboreal Pacific marten and semi-aquatic mustelids. *Canadian Journal of Zoology* 92:259-266.
- Flaherty, E.A.**, A.G. Noakes#, and M. Ben-David. 2014. Success of saphenous venipuncture for field collection of blood from small mammals. *Wildlife Society Bulletin* 38:428-432.

- Eckrich, C. *, **E.A. Flaherty**, and M. Ben-David. 2013. Estimating leaf area index in Southeast Alaska: a comparison of two techniques. PLoS ONE 8:e77642. doi:10.1371/journal.pone.0077642.
- Ben-David, M. and **E.A. Flaherty**. 2012. Theoretical and analytical advances in mammalian isotopic ecology: an introduction. Journal of Mammalogy 93:309-311.
- Ben-David, M. and **E.A. Flaherty**. 2012. Stable isotopes in mammalian research – a beginner’s guide. Journal of Mammalogy 93:312-328.
- Flaherty, E.A.**, M. Ben-David, and W.P. Smith. 2010. Quadrupedal locomotion performance in two species of squirrels: predicting energy savings of gliding. Journal of Comparative Physiology B: Biochemical, Systems, and Environmental Physiology 180:1067-1078.
- Flaherty, E.A.** and M. Ben-David. 2010. Overlap and partitioning of the ecological and isotopic niches. Oikos 119:1409-1416.
- Flaherty, E.A.**, M. Ben-David, and W.P. Smith, 2010. Diet and food availability of the endemic Prince of Wales northern flying squirrel (*Glaucomys sabrinus griseifrons*): implications for dispersal across a managed landscape. Journal of Mammalogy 91:79-91.
- Flaherty, E.A.**, W.P. Smith, S.P. Pyare, and M. Ben-David. 2008. Experimental trials of the northern flying squirrel (*Glaucomys sabrinus*) traversing managed rainforest landscapes: perceptual range and fine-scale movements. Canadian Journal of Zoology 86:1050-1058.
- Flaherty, E.A.**, J. Scheibe, and R. Goldingay. 2008. Locomotor performance and cost of transport in the squirrel glider (*Petaurus norfolcensis*) and the sugar glider (*Petaurus breviceps*). Australian Mammalogy 30:25-35.
- Flaherty, E.A.**, S.A. Dubay, J. Bradley, J. Marzluff, and G.D. Hayward. 2000. The northern flying squirrel (*Glaucomys sabrinus*) as a potential predator of marbled murrelet (*Brachyramphus marmoratus*) eggs. Northwest Science 74: 335-339.

Education Publications

- Flaherty, E.A.**, R.E. Urbanek, D.M. Wood*, C.C. Day*, L.E. D’Acunto*, V.S. Quinn, and P.A. Zollner. 2018. A framework for mentoring students attending their first professional conference. Natural Sciences Education 47:1-8.
- Flaherty, E.A.**, S.M. Walker*, J.H. Forrester, and M. Ben-David. 2017. Effects of course-based undergraduate research experiences (CURE) on wildlife students. Wildlife Society Bulletin 41:701-711.
- Gleichsner, A. * and **E.A. Flaherty**. 2016. Mini cases in choosing appropriate statistical tests to analyze ecological datasets based on hypotheses and data. National Center for Case Study Teaching in Science. http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=864&id=864
- Flaherty, E.A.**, C. A. Eckrich*, and M. Ben-David. 2016. Mystery of the missing martens. National Center for Case Study Teaching in Science. http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=862&id=862
- Flaherty, E.A.**, C. A. Eckrich*, and M. Ben-David. 2016. Seeing the forest for the trees: managing for multiple use in National Forests. National Center for Case Study Teaching in Science. http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=841&id=841
- Flaherty, E.A.**, C. A. Eckrich*, and M. Ben-David. 2016. Managers stumped searching for common ground on the Big Thorne Timber Sale: a debate case. National Sciences Education. *Early online access*.
- Jordan, C., **E.A. Flaherty**, and J.F. Prather. 2014. A curious mission: an analysis of Martian molecules. National Center for Case Study Teaching in Science. http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=720&id=720
- Jordan, C., A.M. Seliga, and **E.A. Flaherty**. 2014. GTA boot camp: a training program to prepare first-time graduate student teaching assistants. Tested Studies for Laboratory Teaching: Proceedings of the 35th Annual Conference of the Association for Biology Laboratory Education (ABLE).
- Flaherty, E.A.** 2014. Animal Biology Lab Manual. 2nd Edition. Hayden-McNeil Publishing.
- Flaherty, E.A.** 2013. Animal Biology Lab Manual. Hayden-McNeil Publishing.

Hotchkiss, E., **E. Flaherty**, A. Krist, and C. Martinez del Rio. 2012. Lab Manual for Animal Biology, 5th Edition. Fountainhead Press, Inc.

Book Chapters

Flaherty, E.A., J. Janick, and A.O. Tucker. *In press*. Identification of animal illustrations in the Voynich Codex. In J. Janick (ed.) *Unraveling the Voynich Codex*. Springer: New York, NY.

Reference Publications

Flaherty, E.A. 2017. Mustelidae Locomotion. Encyclopedia of Animal Cognition and Behavior. pp 1-6.

Presentations

** denotes presenter. Date in italics indicates that abstract has been accepted but not yet presented.*

Wildlife/Ecological Presentation Abstracts

- 2018 Quinby*, B., **E.A. Flaherty**, and J.C. Creighton. Evaluation of the prey base and feeding relationship of the American burying beetle (*Nicrophorus americanus*) on Nantucket Island. Biennial Meeting of the International Society of Behavioral Ecologists, Minneapolis, MN.
- 2018 Quinby*, B., **E.A. Flaherty**, J.C. Creighton. Using stable isotopes to evaluate the vertebrate carrion resources used by the American burying beetle. Annual meeting of The Wildlife Society, Cleveland, OH.
- 2017 Berl, J.L.*, **E.A. Flaherty**, B.J. Danielson, K.F. Kellner, and R.K. Swihart. Winter ecology of prairie deer mice (*Peromyscus maniculatus bairdii*) in cultivated habitats and implications for agricultural ecosystem services. Annual Meeting of the American Society of Mammalogists, Moscow, ID.
- 2017 Berl, J.L., A. J. Kuenzi, **E.A. Flaherty**, and R.K. Swihart*. Interspecific comparison of hantavirus prevalence in *Peromyscus* from a fragmented agroecosystem in Indiana. Annual Meeting of the American Society of Mammalogists, Moscow, ID.
- 2017 Berl, J.L., **E.A. Flaherty***, and R.K. Swihart. Interspecific comparison of hantavirus prevalence in *Peromyscus* from a fragmented agro-ecosystem in Indiana. Annual Meeting for the Indiana Academy of Science, Indianapolis, IN.
- 2017 **Flaherty, E.A.** Locomotor performance in the striped skunk (*Mephitis mephitis*). Annual Meeting of the American Society of Mammalogists, Moscow, ID.
- 2017 Quinby, B.*, **E.A. Flaherty**, C.J. Creighton, N. Feldman, A.D.F. Smith, and M. Belk. Evaluation of the prey base and feeding relationships of the American burying beetle (*Nicrophorus americanus*) using stable isotope analysis. 7th Biennial Research Conference of the Nantucket Biodiversity Initiative, Nantucket, MA.
- 2017 Trapp, S.E., C.C. Day*, **E.A. Flaherty**, P.A. Zollner, and W.P. Smith. Modeling the influence of landscape connectivity on dispersal movements of the northern flying squirrel. Annual Meeting of the American Society of Mammalogists, Moscow, ID.
- 2017 Truelock, Z.T.*, C.E. Clyde-Brockway, **E.A. Flaherty**. Ecological responses of Midwestern snakes to prescribed fire. Annual Meeting of the Midwest Partners in Amphibian and Reptile Conservation, Bradford Woods, Indiana.
- 2016 Abercrombie*, S.A., J.L. Berl, **E.A. Flaherty**, and R.K. Swihart. Seasonal foraging by forest mice enhances loss of weed seeds from crop field edges. Annual Meeting of the Indiana Academy of Science, Indianapolis, IN.
- 2016 Abercrombie*, S.A., J.L. Berl, **E.A. Flaherty**, and R.K. Swihart. Seasonal foraging by forest mice enhances loss of weed seeds from crop field edges. Annual meeting of the Wildlife Society, Raleigh, NC.
- 2016 Berl*, J.L., S.A. Abercrombie, **E.A. Flaherty**, and R.K. Swihart. Ecology of native mice in Midwestern row-crop agriculture and implications for ecosystem services. Annual Meeting of the American Society of Mammalogists, Minneapolis, MN.

- 2016 Berl*, J.L., S.A. Abercrombie, H.A. Johnstone, **E.A. Flaherty**, and R.K. Swihart. Ecology of native mice in Midwestern row-crop agriculture and implications for ecosystem services. Annual meeting of the Wildlife Society, Raleigh, NC.
- 2016 Berl*, J.L., **E.A. Flaherty**, and R.K. Swihart. Does intra-population niche partitioning lead to variation in the functional role of individuals within generalist populations? Annual Meeting of the Indiana Academy of Science, Indianapolis, IN.
- 2016 Day*, C.C., P.A. Zollner, **E.A. Flaherty**, and V. Quinn. An undergraduate course to prepare students to optimize their experience at the Wildlife Society national conference. Annual meeting of the Wildlife Society, Raleigh, NC.
- 2016 **Flaherty, E.A.***, A. O Tucker, and J. Janick. Animals of the Voynich Manuscript. Annual meeting of the American Society for Horticultural Science, Atlanta, GA.
- 2016 H. Quackenbush, L. D'Acunto*, **E. Flaherty**, and P. Zollner. Testing the efficacy of an acoustic lure on bat mist netting success in North America. Annual meeting of the Wildlife Society, Raleigh, NC.
- 2016 Meronk*, S.E., C.C. Day, **E.A. Flaherty**, and P.A. Zollner. Investigating the impact of invasive Asian carp on the North American river otter diet. Annual Meeting of the Indiana Academy of Science, Indianapolis, IN.
- 2016 Meronk*, S.E., C.C. Day, **E.A. Flaherty**, and P.A. Zollner. Investigating the impact of invasive Asian carp on the North American river otter diet. Annual meeting of the Wildlife Society, Raleigh, NC.
- 2016 Quackenbush, H., L.E. D'Acunto*, **E. Flaherty**, and P.A. Zollner. Testing the efficacy of an acoustic lure on bat mist netting success in North America. Annual Meeting of the American Society of Mammalogists, Minneapolis, MN.
- 2015 Abercrombie*, S.A., J.L. Berl, **E.A. Flaherty**, R.K. Swihart. Weed seed predation services by white-footed mice (*Peromyscus leucopus*) in row-crop agriculture. Annual meeting of the Wildlife Society, Winnipeg, Manitoba.
- 2015 Berl*, J.L., **E.A. Flaherty**, and R.K. Swihart. Does intra-population niche partitioning lead to variation in the functional role of individuals with generalist populations. Annual meeting of the Wildlife Society, Winnipeg, Manitoba.
- 2015 Creaser*, R.J., **E.A. Flaherty**, and M. Ben-David. Application of 2D and 3D photographic technology to estimate body size and condition of polar bears. Annual meeting of the Wildlife Society, Winnipeg, Manitoba.
- 2015 Eisinger*, J.W., J.S. Scheibe, and **E.A. Flaherty**. An examination of regional variation in southern flying squirrel ultrasonic communication. Annual Meeting of the American Society of Mammalogists, Jacksonville, FL.
- 2015 **Flaherty*, E.**, W. Smith, S. Trapp, and P. Zollner. Predicting persistence of northern flying squirrels (*Glaucomys sabrinus*) in a fragmented landscape using field data, laboratory experiments, and spatially explicit modeling. 7th International Colloquium on Arboreal Squirrels, Helsinki, Finland.
- 2015 Meronk*, S.E., C. Day, **E.A. Flaherty**, P.A. Zollner. Investigating the impact of invasive Asian carp on river otter diet and the native fish communities of Indiana. Annual meeting of the Wildlife Society, Winnipeg, Manitoba.
- 2015 Trapp*, S.E., **E.A. Flaherty**, W.P. Smith, and P.A. Zollner. Modeling dispersal of the endemic northern flying squirrel in the fragmented temperate rainforest of Southeast Alaska. Midwest Fish and Wildlife Conference, Indianapolis, IN.
- 2014 Trapp*, S.E., **E.A. Flaherty**, W.P. Smith, and P.A. Zollner. Modeling dispersal of the endemic northern flying squirrel in the fragmented temperate rainforest of Southeast Alaska. Annual Meeting of the Wildlife Society. Poster.
- 2014 Eisinger*, J.W., **E.A. Flaherty**, and S. E. Trapp. Surveys of southern flying squirrel activity following timber harvest in southern Indiana. Purdue University Summer Undergraduate Research Fellowships (SURF), West Lafayette, IN. Poster. Abstract Published. **Received an award for best poster.

- 2014 Eckrich*, C.A., **E.A. Flaherty**, and M. Ben-David. Anthropogenic disturbance alters the isotopic niche and interspecific interactions of two sympatric small mammals. Ecological Society of America Annual Meeting, Sacramento, CA. Poster.
- 2014 Eckrich*, C., R. Liu, M. Murphy, **E. Flaherty**, and M. Ben-David. Developing a model for 2 predator – 2 prey cycles in a heterogeneous landscape. Gordon Research Conference, Ventura, CA. Poster.
- 2013 Eckrich*, C., **E.A. Flaherty**, and M. Ben-David. High spatial variation in the consumer isoscape: is it individual specialization? Front Range Isotope Day 2013, Fort Collins, CO. Poster.
- 2013 **Flaherty***, **E.A.**, M. Ben-David, and J.N. Pauli. Locomotor performance in the Pacific marten: are semi-arboreal mustelids more efficient runners than semi-aquatic ones? Annual meeting of the American Society of Mammalogists, Philadelphia, PA. Poster.
- 2013 Jordan, C., A.M. Seliga*, and **E.A. Flaherty***. GTA boot camp: a training program to prepare first-time graduate student teaching assistants. Association for Biology Laboratory Educators Annual Conference, Calgary, AB. Major Workshop.
- 2012 Eckrich*, C., **E.A. Flaherty**, and M. Ben-David. Small mammal responses to young-growth thinning on Prince of Wales Island, Alaska. Wildlife Society Annual Conference, Portland, OR. Poster.
- 2011 Eckrich*, C., **E.A. Flaherty**, and M. Ben-David. Small mammal responses to young-growth thinning on Prince of Wales Island, Alaska. Wyoming Chapter of the Wildlife Society Annual Conference, Jackson, WY. Poster.
- 2011 **Flaherty***, **E.A.** and M. Ben-David. Incorporating K-12 and undergraduate education into mammal field research: investigating effects of climate-induced vegetation changes on least chipmunks (*Tamias minimus*) in southeast Wyoming. Annual meeting of the American Society of Mammalogists, Portland, OR. Poster.
- 2011 **Flaherty***, **E.A.**, M. Ben-David, and C. Eckrich. Small mammal responses to young-growth thinning on Prince of Wales Island, Alaska. Alaska Chapter of the Wildlife Society Annual Conference, Juneau, AK.
- 2010 Noakes*, A.G., **E.A. Flaherty**, and M. Ben-David. Climate-induced vegetation changes and their effects on small mammals in southeast Wyoming. Wyoming Chapter of the Wildlife Society Annual Conference, Lander, WY. Poster.
- 2010 Noakes*, A.G., **E.A. Flaherty**, and M. Ben-David. Climate-induced vegetation changes and their effects on small mammals in southeast Wyoming. Wildlife Society Annual Conference, Snowbird, UT. Poster.
- 2009 **Flaherty***, **E.A.**, M. Ben-David, and W.P. Smith. Diet and availability of the endemic Prince of Wales flying squirrel: implications for dispersal. Annual meeting of the American Society of Mammalogists, Fairbanks, AK.
- 2008 **Flaherty***, **E.A.**, M. Ben-David, and W.P. Smith. Comparing energetics and cost of transport of *Glaucomys sabrinus* and *Sciurus niger* to evaluate the likelihood of dispersal of gliders in managed forests. Annual meeting of the American Society of Mammalogists, Brookings, SD. Poster.
- 2007 **Flaherty***, **E.A.**, M. Ben-David, and W.P. Smith. Potential dispersal constraints on northern flying squirrels in the fragmented temperate rainforest of Southeast Alaska. Annual meeting of the American Society of Mammalogists, Albuquerque, NM.
- 2007 **Flaherty***, **E.A.**, M. Ben-David, and W.P. Smith. Potential dispersal constraints on northern flying squirrels in the fragmented temperate rainforest of Southeast Alaska. Alaska State Chapter of the Wildlife Society, Juneau, AK.
- 2005 **Flaherty***, **E.A.**, S. Pyare, W.P. Smith, and M. Ben-David. Preliminary estimates of movement capability of *Glaucomys sabrinus griseifrons* in managed landscapes of Southeast Alaska. Annual meeting of the American Society of Mammalogists, Springfield, MO. Poster.

- 2004 **Flaherty***, E.A., J.S. Scheibe, and R. Goldingay. Locomotor performance and cost of transport in the squirrel glider (*Petaurus norfolcensis*) and the sugar glider (*Petaurus breviceps*). Annual meeting of the American Society of Mammalogists, Arcata, CA. Poster.

Education-Related Presentation Abstracts

- 2018 **Flaherty, E.A.**, R.E. Urbanek, D.M. Wood*, C.C. Day, L.E. D'Acunto, V.S. Quinn, and P.A. Zollner. A framework for mentoring students attending their first professional conference. Ohio Project Kaleidoscope – 4th Annual Conference, Alliance, OH.
- 2018 **Flaherty, E.A.***, C.C. Day, R.E. Urbanek, D.M. Wood, L.E. D'Acunto, V. Quinn, and P.A. Zollner. 2018. Training students to attend a conference: social and career outcomes. Annual meeting of the North American Colleges and Teachers of Agriculture, Ames, IA.
- 2018 Mycroft*, C., and **E.A. Flaherty***. Impact of a summer field practicum on the developemtn of students' professional wildlife identity. Annual meeting of The Wildlife Society, Cleveland, OH.
- 2018 Varner*, J., P.K. Conners, J.S. Brown, L. Dizney, J.M. Duggan, L.P. Erb, **E.A. Flaherty**, J. Hanson, H.C. Lanier, and C.J. Yahnke. 2018. Squirreling around for science: incorporating sciurid behavioral research into undergraduate curriculum. Annual meeting of the American Society of Mammalogists, Manhattan, KS.
- 2017 Day, C.C., **E.A. Flaherty**, P.A. Zollner*, and V.S. Quinn. An undergraduate course to prepare students to optimize their experience at a national conference. Annual Meeting of the American Society of Mammalogists, Moscow, ID.
- 2017 **Flaherty, E.A.***, C.C. Day, L.E. D'Acunto, V. Quinn, and P.A. Zollner. 2017. Preparing undergraduates to attend their first professional conference. Annual meeting of the North American Colleges and Teachers of Agriculture, West Lafayette, IN
- 2016 Day*, C.C., P.A. Zollner, **E.A. Flaherty**, and V. Quinn. 2016. An undergraduate course to prepare students to optimize their experience at the Wildlife Society national conference. Annual meeting of the Wildlife Society, Raleigh, NC.

Invited Seminars

- 2018 *Wildlife ecology and habitat management*. Great Lakes Science Boot Camp, Purdue University, West Lafayette, IN.
- 2016 *Cost of transport studies of wildlife: animal physiology informs wildlife management and conservation*. Department of Biology, Spring Seminar Series, Indiana University Purdue University Fort Wayne (IPFW), Fort Wayne, IN.
- 2015 *Wildlife responses to forest management*. Department of Biology, Fall Seminar Series, Purdue Calumet, Hammond, IN.
- 2015 *Small mammal and small carnivore responses to timber management in Southeast Alaska: ecological studies to inform management*. Department of Biology, EcoLunch Seminar Series, Purdue University, West Lafayette, IN.
- 2014 *Small mammal and small carnivore responses to timber management in Southeast Alaska: ecological studies to inform management*. Department of Natural Resources and Environmental Science, University of Illinois, Urbana-Champaign, IL.
- 2011 *Northern flying squirrels in the Alaskan rainforest*. USDA Forest Service Rainforest Festival, Petersburg, AK.
- 2010 *Northern flying squirrel dispersal in the fragmented Alaskan rainforest*. Department of Forestry and Natural Resources, Purdue University, West Lafayette, IN.
- 2007 *Flight delay 50-100 years: effects of timber harvest on northern flying squirrel movements in Southeast Alaska*. Zimmerman Honorarium Lecture Series, Casper College, Casper, WY.

- 2006 *Are energetics and diet potential constraints for dispersal of flying squirrels across a fragmented landscape?* Wyoming Student Chapter of the Wildlife Society, University of Wyoming, WY.
- 2006 *Northern flying squirrel dispersal in the fragmented Alaskan rainforest.* Keynote speaker for the National Flying Squirrel Association annual meeting. Houston, TX.

Workshops and Symposia

- 2017 *Training students to attend a professional conference? Educational workshop for leading a similar course.* Organizer and presenter. 24th Annual Meeting of the Wildlife Society.
- 2010 *Stable isotopes in mammal research.* Organizer. 90th Annual Meeting of the American Society of Mammalogists, Laramie, WY.

Funded and Pending Research Grants and Contracts

Wildlife Research

- 2018 Purdue Research Foundation Summer Faculty Grants – *Southern flying squirrel responses to forest management.* **Elizabeth Flaherty** (\$8,000).
- 2018 Indiana Department of Natural Resources – *Integrated deer management in Indiana.* Robert Swihart, Michael Jenkins, Zhao Ma, and **Elizabeth Flaherty**. (\$1,269,376).
- 2018 Nantucket Biodiversity Institute. *Determining the prey base of beetle communities on Nantucket Island using stable isotopes.* Brandon Quinby, **Elizabeth Flaherty**, and Curtis Creighton. (\$1000).
- 2017 Sophie Danforth Conservation Biology Fund at the Roger Williams Park Zoo/Rhode Island Zoological Society. *Evaluation of the prey base and feeding relationships of the American burying beetle (*Nicrophorus americanus*).* Brandon Quinby, **Elizabeth Flaherty**, and Curtis Creighton. (\$1000).
- 2017 Nantucket Biodiversity Institute. *Evaluating the Carrion Base of Burring Beetle Communities on Nantucket Island Using Stable Isotopes.* Brandon Quinby, **Elizabeth Flaherty**, and Curtis Creighton. (\$1044).
- 2016 USDA Forest Service Cooperative Agreement Amendment – Northeast Research Station. *Northern flying squirrel population-level responses to forest management and red spruce restoration in the Allegheny Mountains.* Cooperative Agreement. **Elizabeth Flaherty**. (\$10,000).
- 2016 Purdue **AgSEED** - Agricultural Research and Extension leading to Economic Development in Indiana Agriculture and Rural Communities. *Functional role of native mice in Midwestern agroecosystems: unwanted pests or friendly neighbors?* **Elizabeth Flaherty**, Jacob Berl, and Rob Swihart (\$28,379).
- 2015 Indiana Department of Natural Resources. *Wildlife values survey for Indiana mesopredators.* Research Contract. **Elizabeth Flaherty**, Linda Prokopy, and Zoë Glas (\$3500).
- 2015 Polar Bears International. *Analysis of 2D photographs of polar bears.* Research Contract. **Elizabeth Flaherty** and Randy Creaser (\$1400).
- 2015 US Forest Service. *Northern flying squirrel population-level responses to forest management and red spruce restoration in the Allegheny Mountains.* Cooperative Agreement. **Elizabeth Flaherty**. (\$10,000)
- 2015 International Association for Bear Research and Management – Research and Conservation Grant. *Photographic monitoring of the Western Hudson Bay polar bear population.* **Elizabeth Flaherty** and Randy Creaser (\$3150)
- 2012 National Fish and Wildlife Foundation – Alaska Fish and Wildlife Fund. *Thinning of young-growth forest stands may ameliorate competitive interactions between endemic Prince of Wales ermines and introduced American martens.* Merav Ben-David and **Elizabeth Flaherty** (\$20,000)

- 2012 USDA Forest Service Cooperative Agreement (Amendment). *Small mammal responses to pre-commercial thinning research project*. Awarded to Merav Ben-David and **Elizabeth A. Flaherty** (\$71,114)
- 2010 USDA Forest Service Cooperative Agreement. *Small mammal responses to precommercial thinning research project*. Awarded to Merav Ben-David and **Elizabeth A. Flaherty** (\$319,956).
- 2009 Wyoming Governor's Big Game License Coalition, Wildlife Heritage Foundation of Wyoming. *Predicting least chipmunk (Tamias minimus) responses to landscape-level impacts of climate change and bark beetle irruptions in Wyoming*. Awarded to **Elizabeth A. Flaherty** (\$10,400).
- 2006 Grant-in-Aid of Research, American Society of Mammalogists. *Predicting dispersal rates in fragmented rain forests of Southeast Alaska: implications for the viability of northern flying squirrel (Glaucomys sabrinus) metapopulations in managed landscapes*. Awarded to **Elizabeth A. Flaherty** (\$1000)
- 2003 USDA Forest Service Cooperative Agreement. *Northern flying squirrel dispersal across managed landscapes*. Awarded to Winston P. Smith, Merav Ben-David, and **Elizabeth A. Flaherty** (\$82,181)

In-Kind Research Support

- 2015-2016 Polar Bear's International. *Support for M.S. student, Randy Creaser, to conduct fieldwork in Churchill, Manitoba*. Funding included \$993 for travel and \$1000 for housing and food each year in 2015 and 2016, \$3000 for the purchase of equipment (\$6986).
- 2014-2015 Friends of Blackwater. *Support for M.S. student, Stephanie Trapp, to conduct fieldwork in the Monongahela National Forest, WV*. Funding included support for fuel, food, and field supplies (\$2000).

Education

- 2018 USDA, NIFA – *Diversity in Faces, Places, and Spaces of Natural Resource Sciences*. **Elizabeth Flaherty**, Reuben Goforth, Z. Ma, X. Bernal, S. Lawson, and M. Sepulveda. (\$262,064).
- 2017 Association for Public Land-Grant Universities – *Educational workshop for improving student success while attending a professional conference*. **Elizabeth Flaherty**, Vanessa Quinn, and Patrick Zollner (\$3000).
- 2016 Purdue University Study Abroad and International Learning (SAIL) grant – *Cuba: Natural Resources and Environment Winter Break Study Abroad*. **Elizabeth Flaherty** and John Graveel (\$7000).
- 2016 Purdue University Intercultural Pedagogy Grant - *Cuba: Natural Resources and Environment Winter Break Study Abroad*. **Elizabeth Flaherty** (\$3000).
- 2016 Ag Alumni Trust Fund. *FNR 498 – Optimize TWS Meeting Attendance*. Funding for Undergraduate Professional Development Project. **Elizabeth Flaherty** and Patrick Zollner (\$2750).
- 2012 Polar Bear International. *Monitoring polar bear populations using citizen science and informal science education of undergraduate students*. Awarded to Merav Ben-David and **Elizabeth A. Flaherty** (\$2000)
- 2012 Wyoming Space Grant Consortium. *Mission to Mars: Enhancing critical thinking skills in undergraduate science courses through the use of inquiry-based case studies*. Awarded to **Elizabeth Flaherty**, Carly Jordan, and Jonathan Prather (\$7500).
- 2012 Wyoming Governor's Big Game License Coalition, Wildlife Heritage Foundation of Wyoming. *Using the effects of bark beetle-derived forest mortality on least chipmunks as an educational tool: an assessment*. Awarded to **Elizabeth A. Flaherty** and Merav Ben-David (\$4000).

2011 University of Wyoming Academic Affairs. *Using assessment of the Wildlife and Fisheries Biology and Management major capstone course to inform curriculum development.* Awarded to **Elizabeth A. Flaherty**, Merav Ben-David, and Carly Jordan (\$1500).

Teaching Experience

Purdue University (teaching evaluations scores and student numbers in CV addendum)

2013-pres **Instructor** – FNR 34100: Wildlife Habitat Management, 3 credits, fall semester
 2014-pres **Instructor** – FNR 34800: Wildlife Investigational Techniques, 3 credits, spring semester
 2014-pres **Co-Instructor** – FNR 37050: Forest Habitats and Community Practicum, 2 credits, summer field course (part of 5 week summer field practicum held in the Upper Peninsula of MI)
 2014- pres **Co-Instructor** – FNR 49800: Optimizing TWS Meeting Attendance, 1 credit, fall semesters
 2015 **Instructor** – FNR 59800: Wildlife Physiology Seminar, 1 credit, spring semester
 2015-pres **Instructor** – FNR 49800: Introduction to College/University Teaching/Scientific Teaching, 1-2 crests, spring/fall semester
 2016-2017 **Co-Instructor** – SA 21255: Cuba: Natural Resources, Farming, and Social Systems (study abroad), spring semester

Student	Project	Years
Lexi Eiler	Seasonal differences in diet of captive striped skunks	2016-2018
Zach Truelock	Prairie snake responses to prescribed fire	2016-2018
Lucas Voorhees	Physiological stress response to environmental enrichment of captive striped skunks	2016-2018
Mackensie Carter	Physiological stress response to environmental enrichment of captive striped skunks	2016-2017
Hunter Johnstone*	Foraging behavior of prairie deer mice in row-crop agriculture	2016-2017
Courtney Loudon	Evaluating use of Anabat detectors to survey for southern flying squirrels in managed forests	2016
Matthew Voorhees*	Use of mandibular venipuncture for field blood collection in <i>Peromyscus</i> spp.	2016
Sarah Abercrombie*	Weed seed predation by small mammals and invertebrates in agricultural fields	2015-2016
Sarah Meronk	Comparison of river otter diets between watersheds with and without invasive Asian carp – Received award for best oral presentation at the Purdue Summer Undergraduate Research Fellowship (SURF) Research Symposium	2015-2016
Beth Palm	Diet preferences in captive striped skunks.	2015-2016
Rachel Steiger	Evaluating use of Whistle activity monitors for dogs on captive wildlife	2015-2016
Kelton Verble*	Measuring body size and condition of captive wolves using 2D and 3D photography methods AND Use of morphometric and genetic methods to differentiate between <i>Peromyscus leucopus</i> and <i>P. maniculatus</i>	2015-2016
Jonathan Wu*	Weed seed consumption by <i>Peromyscus</i> spp. in agricultural fields	2015-2016
Joseph Eisinger*	Evaluating regional differences in southern flying squirrel calls – Received 1 of 14 travel awards to attend the 2015 American Society of Mammalogists meeting in Jacksonville, FL	2014-2015
Jessica Grady	Applications of stable isotope analysis to forensic science	2014-2015
University of Wyoming Undergraduate Students		

Andi Noakes	Least chipmunk responses to climate change. NASA Fellowship Award and EPSCoR Scholarship.	2010
Jeremiah Attebury	Giving-up density and perceived predation risks of least chipmunks	2009
Carisa Stansbury	Locomotor performance and gait of <i>Martes caurina</i>	2007
Emily Averil	Differences in stable isotope signatures of AK soil invertebrates	2006

University of Wyoming

2012	Co-Instructor – LIFE 2022: Animal Biology, 4 credits, spring semester (~300 students)
2011-2012	Coordinator – LIFE 2022: Animal Biology Lab, spring semester
2011-2012	Coordinator – LIFE 1002: Discovering Science Lab (non-majors biology course), spring semester
2011-2012	Instructor – LIFE 1010: General Biology, 4 credits, fall semester (~200 students)
2010-2011	Co-Instructor – ENR 1200: Environment, 4 credits, fall semester. In 2011, developed and led the week-long field/lab component in Grand Teton National Park.
2009	Co-Instructor – ZOO 4300: Wildlife Ecology and Management, 5 credits, fall semester
2009	Co-Instructor – ZOO 4190: Comparative Environmental Physiology Lab, 1 credit, spring semester
2007-08, 2012	Instructor – ZOO 2450: Principles of Fish and Wildlife Management, 3 credits, spring semester
2006-2009	Instructor – Upward Bound/TRiO. Wildlife Research and Introduction to Chemistry

Students Formally Mentored

Undergraduate students mentored by E. Flaherty and her graduate students

Graduate students

Current Graduate Committee Chairmanships:

2018-pres.	Ashley Archer (M.S.). Project: Southern flying squirrel responses for forest management in Indiana. Purdue University.
2017-pres.	Camille Griffith (Ph.D.), Co-advised with Patrick Zollner. Project: Northern flying squirrel dispersal and population structure in West Virginia. Purdue University.
2016-pres.	Brandon Quinby (Ph.D.), Co-advised with Curtis Creighton at Purdue Northwest, Project: Physiology and ecology of burying beetles. Purdue University.
2015-pres.	Chelsea Clyde-Brockway (Ph.D.), Co-advised with Frank Palladino at IPFW, Project: Sea turtle nutrition and habitat use (project still in development). Purdue University.
2014-2017.	Jacob Berl (Ph.D.). Co-advised with Robert Swihart. Dissertation title: Ecology of native mice in row-crop agriculture and implications for ecosystem services. Purdue University.
2014-2016.	Randy Creaser (M.S. Non-Thesis). Thesis title: Application of 2D and 3D photographic technology to estimate body measurements of polar bears. Purdue University.
2014-2016.	Stephanie Trapp (M.S.). Thesis title: Influence of landscape configuration and resource availability on northern flying squirrel dispersal. Purdue University.

Graduate Committee Memberships (excluding those chaired):

Student	Degree	Department	Years
Mariah Mobley	M.S.	Botany and Plant Pathology	2018 - present
Abby-Gayle Prieur	M.S.	Forestry and Natural Resources	2018 - present
Amy Weber	Ph.D.	Forestry and Natural Resources	2018 - present
Daniel Bird	M.S.	Forestry and Natural Resources	2017 - present
Javier Lenzi	Ph.D	Forestry and Natural Resources	2016 - present
Casey Day	Ph.D	Forestry and Natural Resources	2014-2018
Sarah Stein	Ph.D	Forestry and Natural Resources	2014-2018
Erin Kenison	Ph.D	Forestry and Natural Resources	2017-2018
Patrick Ruhl	Ph.D	Forestry and Natural Resources	2016-2018
Laura D'Acunto	Ph.D	Forestry and Natural Resources	2014-2018
Marjie MacGreggor (UW)	Ph.D	Zoology and Physiology	2012-2015
Carolyn Eckrich (UW)	M.S., Ph.D	Ecology/Zoology and Physiology	2010-2017
Kristin Schulte	Plan B Thesis	Science and Mathematics Teaching	2013
S. Walker	Plan B Thesis	Science and Mathematics Teaching	2012-2013
R. Keith Mayes	M.S.	Zoology and Physiology	2011-2013
Jarod Waite	Plan B Thesis	Science and Mathematics Teaching	2011

Professional Service and Activities

American Society of Mammalogists:

- Elected member of the ASM Board of Directors (2014-2017)
- Chair of the Travel and Honoraria Committee (2016-present)
- Member of the Education and Graduate Students Committee (2014-present)
- Member of the Human Diversity Committee (2017-present)
- Co-chair of the Local Committee for the 2010 annual meetings of the ASM, Laramie, WY
- Member of the American Society of Mammalogists Program Committee (2008-2012)

University of Wyoming Science Math Teaching Center Affiliate Faculty (2012-2013)

Member of the Wildlife and Fisheries Biology and Management Major Assessment Team, Zoology and Physiology Department, University of Wyoming (2011-2013)

Chair of the Wildlife and Fisheries Biology and Management Major Assessment Team, Zoology and Physiology Department, University of Wyoming (2011-2012)

Visiting Scientist for the 5th-6th Grade Field Research class at the University of Wyoming Lab School, Laramie, WY and Dean Morgan Middle School, Casper, WY (2009)

Presenter for Women in Science, University of Wyoming (2008-2009, 2011-2012)

Graduate Student Representative, Berry Biodiversity and Conservation Center Planning Committee (2007-2009)

Purdue University Service and Activities

COMMITTEE INVOLVEMENT

Department (7)

Faculty Advisor for the Student Chapter of The Wildlife Society

2018-present

Responsibilities: Advise student members on club issues, assist with group activities, attend meetings, and help coordinate club activities.

Wildlife Curriculum Committee 2013-present

Responsibilities: Review existing Wildlife curriculum and work with other Wildlife faculty to evaluate and revise the existing curriculum.

Graduate Committee 2014-present

Responsibilities: Review graduate student applications collectively determine student admission into the FNR graduate program.

Search Committee for the Extension Wildlife Specialist Position 2016

Responsibilities: Participate in a search and review of candidates for the Extension Wildlife Specialist vacated by Rob Chapman in spring 2016.

Woodlands Committee 2015-2016

Responsibilities: Chair of the Wildlife subcommittee. Provide wildlife perspective and guidance to the Woodlands Committee and FNR regarding management of the FNR properties.

Safety Committee 2014-2016

Responsibilities: Develop departmental safety procedures and regulations relating to teaching, research, and extension activities. Evaluate potential safety equipment purchases and training for department members.

Equipment Committee 2013-2016

Responsibilities: Review grants submitted by FNR faculty to purchase equipment for teaching and research using departmental funds.

College (2)

Grade Appeals Committee 2017-present

Responsibilities: Review students' formal, written appeals regarding an inappropriate final grade in a course.

Faculty advisor for the Quality Deer Management Association Student Club 2014-2018

Responsibilities: Advise student members on club issues, assist with group activities, attend meetings, and help coordinate club activities.

University (2)

Member of the Boiler Success Team 2018-present

Responsibilities: Investigated and summarized challenges for undergraduate students regarding success graduating within 4 years.

Boiler Gold Rush Faculty Mentor 2014-present

Responsibilities: Met with a group of incoming Freshman students during the Boiler Gold Rush to provide students with an informal and relaxed opportunity to ask questions about anything related to university life and expectations including classroom behavior, how to address your instructors, the amount of homework they should expect, etc.

State (4)

Judge for the Indiana Wildlife Habitat Evaluation Career Development Event Program (WHEP CDE)
2015-present

Indiana Department of Natural Resources Nongame Mammal Technical Advisory Committee (TAC)
for the Wildlife Diversity Program (WDP) 2014-present

Chair for the Ecology Section of the Indiana Academy of Science 2016-2017

Professional Membership

American Society of Mammalogists (2004-present; Life Member)

- Member of the Board of Directors (2015-2017)
- Chair of the Honoraria and Travel Awards Committee (2016-present)
- Member of the Education and Graduate Students Committee (2014-present)
- Member of the Human Diversity Committee (2017-present)

The Wildlife Society (2004-present)

- Member of the College and University Wildlife Education Working Group
- Member of the Native Peoples' Wildlife Management Working Group
- Certified Wildlife Biologist®

Indiana Academy of Science (2015-present)

- Chair of the Ecology Section (2016-2017)
- Vice chair of the Ecology Section (2015-2016)

Indiana Chapter of the Wildlife Society (2014-present)

North American Colleges and Teachers of Agriculture (2013-present)

International Association for Bear Research and Management (2015)

Association of Biology Laboratory Educators (2011-2013)

Ad Hoc Reviewer for Scientific Journals

American Midland Naturalist, Biotropica, Ecography, Ecology, European Journal of Wildlife Research, Human –Wildlife Interactions, Ibis, Integrative and Comparative Biology, Journal of Ethology, Journal of Mammalogy, Landscape Ecology, Mammalian Biology, Natural Sciences Education, Naturwissenschaften, Oikos, PLoS ONE, Rapid Communications in Mass Spectrometry, Ursus, Wildlife Interactions