

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

2023–Present Associate Department Head, Department of Forestry and Natural Resources, Purdue University, IN.
2023–Present Professor of Wildlife Ecology and Habitat Management, Department of Forestry and Natural Resources, Purdue University, IN.
2019–2023 Associate Professor of Wildlife Ecology and Habitat Management, Department of Forestry and Natural Resources, Purdue University, IN.
2013–2019 Assistant Professor of Wildlife Ecology and Habitat Management, Department of Forestry and Natural Resources, Purdue University, IN.
2011–2013 Assistant Academic Professional Lecturer, Life Sciences Program, Environment and Natural Resources Program, Department of Zoology and Physiology, University of Wyoming, WY.
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.

Honors and Awards

2024 Purdue University, College of Agriculture, Team Award for the Hardwood Ecosystem Experiment Team
2023 Purdue University, Book of Great Teachers
2023 Purdue University, Horizon's Program Faculty Mentor Impact Award
2022–2023 Purdue University College of Agriculture John T. Taylor Excellence in Teaching Innovation Award
2022 Purdue University College of Agriculture Student Choice Award for Outstanding Club/Organization Advisor
2022 Department of Forestry and Natural Resources Outstanding Counselor Award
2021 The Wildlife Society's Excellence in Wildlife Education Award
2020 USDA National Award for Excellence in College and University Teaching in the Food and Agricultural Sciences
2020 The Wildlife Society's Student Chapter Advisor of the Year
2020 Purdue University Charles B. Murphy Outstanding Undergraduate Teaching Award
2020 Purdue University Teaching Academy Fellow
2019 Purdue University College of Agriculture Nominee for the USDA National Award for Excellence in College and University Teaching in the Food and Agricultural Sciences Program
2019 Purdue University College of Agriculture – Richard L. Kohls Outstanding Undergraduate Teacher Award

2019	Teaching Leadership Award, Purdue University Teaching Academy and the Center for Instructional Excellence
2018	Department of Forestry and Natural Resources Outstanding Undergraduate Teaching Award
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
2017	Department of Forestry and Natural Resources Outstanding Undergraduate Teaching Award
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 University 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
2000	Wyoming Student Chapter of the Wildlife Society's Jack Sinn Memorial Award

Publications

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

denotes undergraduate student

Wildlife/Ecological Research Publications

- Burton, A.C., C. Beirne, K.M. Gaynor, C. Sun, A. Granados, M.L. Allen, J.M. Alston, et al. 2024. Mammal responses to global changes in human activity vary by trophic group and landscape. *Nature Ecology and Evolution* 8:924–935.
- Kays, R. M.H. Snider, G. Hess, M.V. Cove, A. Jensen, H. Shamon, W.J. McShea, et al. 2024. Climate, food and humans predict communities of mammals in the United States. *Diversity and Distributions*. *Published early online*.
- Proudman, A.S.[#], L.R. Jones, M.O. Watkins[#], **E.A. Flaherty**. 2024. Activity responses of a mammal community to a 17-year cicada emergence event. *Journal of Mammalogy*. *Published early online*.
- Hila, S. R. Maor, M. Cove, R. Kays, J. Adley, P. Alexander, D. Allen, M. Allen, et al. 2024. SNAPSHOT USA 2021: A third coordinated national camera trap survey of the United States. *Ecology* 105:e4318.
- Clyde-Brockway, C., M. Heidemeyer, M. Giry, F.V. Paladino, R. Mora, M. Mora, R. Mora, and **E.A. Flaherty**. 2023. A male East-Pacific green turtle that associated with small fishing boats and eats fish. *Marine Turtle Newsletter* 166:10–13.
- Smith, W.P., and **E.A. Flaherty**. 2023. Wildlife studies on the Tongass National Forest challenge essential assumptions of its wildlife conservation strategy. *Journal of Wildlife Management* 87:e22450.
- Clyde-Brockway^{*}, C.E., M. Heidemeyer, F.V. Paladino, and **E.A. Flaherty**. 2022. Diet and foraging

- niche flexibility in green and hawksbill turtles. *Marine Biology* 168:1–8.
- Delisle, Z.J. *, R.K. Swihart, B.M. Quinby *, R.D. Sample, K.J. Kinser-McBee#, E.K. Tauber#, and **E.A. Flaherty**. 2022. Density from pellet groups: comparing methods for estimating dung persistence time. *Wildlife Society Bulletin* 46:e1325.
- Kays, R., M.V. Cove, J. Diaz, K. Todd, C. Bresnan, M. Snider, T.E. Lee Jr., et al. 2022. SNAPSHOT USA 2020: A second coordinated national camera trap survey of the United States during the COVID-19 pandemic. *Ecology* 103:e3775.
- Sample, R.D., C. Orpurt#, P. Habeck#, J.M. Pierce*, M. Ghaste, J.R. Widhalm, **E.A. Flaherty**, and M.A. Jenkins. 2022. Changes in white-tailed deer browsing selection of hardwood tree species with increasing stem height. *Natural Areas Journal* 42:268–277.
- Clyde-Brockway, C.E. *, C.R. Ferreira, **E.A. Flaherty**, and F.V. Paladino. 2021. Lipid profiling suggests species specificity and minimal seasonal variation in Pacific green and hawksbill sea turtle plasma. *PLoS ONE* 16:e0253916.
- Delisle, Z.J. *, **E.A. Flaherty**, M.R. Nobbe#, C.M. Wzientek#, R.K. Swihart. 2021. Next-generation camera trapping: systematic review of historic trends suggests keys to expand research applications in ecology and conservation. *Frontiers in Ecology and Evolution* 9:1–18.
- Lenzi, J. *, I. González-Bergonzoni, **E. Flaherty**, D. Hernandez, E. Machín, and B. Pijanowski. 2021. The relationship between urban refuse with fecundity and nestlings' success of a generalist seabird in the Río de la Plata Estuary-Uruguay. *Marine Pollution Bulletin* 173:11000.
- Neumann, L.K. *, A.E. Higdon#, **E.A. Flaherty**, B.J. Bumgardner, A.B. Wilms, K.D. Gavenda, C.D. Delancey, and J.B. Dunning. 2021. Delineating the origin of migratory Northern Saw-whet Owls (*Aegolius acadicus*) in Indiana using stable isotope analysis. *Wilson Journal of Ornithology* published early online.
- Quinby, B.M. *, J.C. Creighton, **E.A. Flaherty**. 2020. Estimating population abundance of burying beetles using photo-identification and mark-recapture methods. *Environmental Entomology* 50:238–246.
- Eckrich, E. *, S.E. Albeke, **E.A. Flaherty**, R.T. Bowyer, and M. Ben-David. 2020. rKIN: Kernal-based method for estimating isotopic niche size and overlap. *Journal of Animal Ecology* 89:757–771.
- McAllister, C.T., D. Motriuk-Smith, H. McCurdy, R.S. Seville, and **E.A. Flaherty**. 2020. Coccidian parasites of flying squirrels, *Glaucomys* spp. (Rodentia: Sciuridae), from Alaska and Arkansas, with a description of a new species of Eimeria (Apicomplexa:Eimeriidae). *Journal of Parasitology* 106:406–410.
- Quinby, B.M. *, J.C. Creighton, **E.A. Flaherty**. 2020. Stable isotope ecology in insects: a review. *Ecological Entomology* 45:1231–1246.
- Quinby, B.M. *, N.S. Feldman#, **E.A. Flaherty**, M.C. Belk, A.D.F. Smith, and J.C. Creighton. 2020. Isotopic discrimination between carrion and elytra clippings of lab-reared American burying beetles (*Nicrophorus americanus*): implications for conservation and evaluation of feeding relationships in the wild. *Rapid Communications in Mass Spectrometry* 34:e8785.
- Ruhl, P.J. *, **E.A. Flaherty**, and J.B. Dunning Jr. 2020. Using stable isotopes of plasma, red blood cells, feces, and feathers to assess mature-forest bird diet during the postfledgling period. *Canadian Journal of Zoology* 98:39–46.
- Cove, M., R. Kays, H. Bontrager, C. Bresnan, M. Lasky, T. Frerichs, R. Klann, et al. (total of 143 co-authors). 2021. Snapshot USA 2019: the first coordinated national camera trap survey of the United States. *Ecology* 102:e03353.
- Lenzi, J. *, I. González-Bergonzoni, E. Machín, B. Pijanowski, **E. Flaherty**. 2019. The impact of anthropogenic food subsidies on a generalist seabird during nestling growth. *Science of the Total Environment* 687:546–553.
- Trapp, S.E. *, **E.A. Flaherty**, P.A. Zollner, C.C. Day*, and W.P. Smith. 2019. Simulating impacts of timber harvest upon dispersal of the endemic Prince of Wales northern flying squirrel (*Glaucomys sabrinus griseifrons*). *Ecological Modeling* 394:44–52.
- 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. *, K.M. Verble#, **E.A. Flaherty**, and R.K. Swihart. 2017. Field discrimination of prairie deer mice (*Peromyscus maniculatus bardii*) and white-footed mice (*Peromyscus leucopus noveboracensis*) using morphological characteristics. *Prairie Naturalist* 49:66–71.
- 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

- Dizney, L., J.M. Duggan, P.K. Connors, H.C. Lanier, J. Varner, **E.A. Flaherty**, L.P. Erb, and C.J. Yahnke. 2023. Response to Messenger et al. (2022). *Frontiers in Ecology and the Environment* 21:218–219.
- Flaherty, E.A.,** H.C. Lanier, J. Varner, J.M. Duggan, S. Beckmann, C.J. Yahnke, L.P. Erb, L.E. Patrick, L. Dizney, K.E. Munroe, and P.K. Connors. 20223. Teaching Mammalogy in the 21st century: advances in undergraduate education. *Journal of Mammalogy* 104:655–666.
- Yahnke, C.J., H. Lanier, **E.A. Flaherty**, J. Varner, K. Munroe, J.M. Duggan, L. Erb, L. Dizney, and P.K. Connors. 2023. What should students be able to do? Helping students recognize professional skills in our courses. *Journal of Mammalogy* 104:696–706.
- Connors, P.K. H.C. Lanier, L.P. Erb, J. Varner, L. Dizney, **E.A. Flaherty**, J.M. Duggan, C.J. Yahnke, and J.D. Hanson. 2021. Connect while distant: Networking CUREs across classrooms to create community and empower students. *Integrative and Comparative Biology* 61:934–943.
- Dizney, L., J. Varner, J.M. Duggan, H.C. Lanier, P.K. Connors, L.P. Erb, **E.A. Flaherty**, C.J. Yahnke, and J.D. Hanson. 2021. Squirreling from afar: adapting squirrel-net modules for remote teaching and learning. *CourseSource* 8:1–5.
- Wickenhauser, J., P. Ebner, **E.A. Flaherty** and E.L. Karcher. 2021. Essential skill questionnaire: a pilot study of a self-report measure to identify undergraduate level of essential job skills. *NACTA Journal* 65:414–418.
- Wickenauser, J., A. Rosenkrans, P. Ebner, **E.A. Flaherty**, and E.L. Karcher. 2021. Intercultural competence: Fostering student skill development during emergency remote learning. *NACTA Journal* 65:288–296
- Connors, P.K., J. Varner, L.P. Erb, L. Dizney, H.C. Lanier, J. Hansen, C.J. Yahnke, J.M. Duggan, and **E.A. Flaherty**. 2020. Squirreling around for science: observing sciurid rodent to investigate animal behavior. *CourseSource* 7:1–10.
- Dizney, L., P.K. Commors, J. Varner, J.M. Duggan, H.C. Lanier, L.P. Erb, **E.A. Flaherty**, C. Yahnke, J.D. Hansen. 2020. An introduction to the squirrel-net teaching modules. *CourseSource* 6:1–7.
- Duggan, J.M., J. Varner, J., H.C. Lanier, **E.A. Flaherty**, L. Dizney, C.J. Yahnke, P.K. Connors, L. Erb, and J.D. Hansen. 2020. Squirrels in space: using radio telemetry to explore the space use and movement of sciurid rodents. *CourseSource* 7:1–11.
- Varner, J., H.C. Lanier, J.M. Duggan, L. Dizney, **E. Flaherty**, P.K. Connors, L.P. Erb, C. Yahnke, and J.D. Hanson. 2020. How many squirrels are in the shrubs? A lesson for comparing methods for population estimation. *CourseSource* 7:1–8.
- Yahnke, C.J., L. Dizney, J. Varner, J. Duggan, L. Erb, H. Lanier, **E.A. Flaherty**, and P. Connors. 2020. Sorry to eat and run: a lesson plan for testing trade-offs in squirrel behavior using giving up densities (GUDS). *CourseSource* 7:1–10.
- Senegal, T.J., and **E.A. Flaherty**. 2020. Fishing for information: quantitative analytical methods for population and community assessments. *Case Studies in the Environment* 2020:1–12.
- Flaherty, E.A.,** C.C. Day, R.E. Urbanek, D.M. Wood, L.E. D’Acunto, V.S. Quinn, and P.A. Zollner. 2019. Mentored conference experiences support students’ career exploration and professional development. *Wildlife Society Bulletin* 43:565–575.
- Flaherty, E.A.,** J. Varner, J.M. Duggan, P.K. Connors, and Squirrel-Net. 2019. A CURE for the common course: Course-based undergraduate research experiences could benefit wildlife undergraduates. *The Wildlife Professional* 13(6):32–35.

- 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*. doi:10.4195/nse2015.0020
- 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.** 2022. Designer for learner-centered activities for all chapters. *Women in Wildlife Science: Building equity, diversity, and inclusion*. Eds. C.L. Chambers and K.L. Nicholson. Johns Hopkins University Press, Baltimore, MA.
- Flaherty, E.A.,** J. Janick, and A.O. Tucker. 2018. Zoomorph Identification. In J. Janick (ed.) *Unraveling the Voynich Codex*. Pp.159-176. Springer: New York, NY.

Reference Publications

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

Invited Seminars

- School of Forestry, Northern Arizona University, Flagstaff, AZ. 2023
- Biology Department, Purdue University, West Lafayette, IN. 2023
- Joint meeting of the Council for Agricultural Research, Education, and Teaching and the Administrative Heads Section of the Association of Public and Land-grant Universities. 2021.
- Kansas State University, Manhattan, KS. 2021
- University of Valparaiso, Valparaiso, IN. 2021
- Keynote speaker. Annual meeting of the Central Plains Society of Mammalogists, Cape Girardeau, MO. 2019.
- University of Valparaiso, Valparaiso, IN. 2019
- Cross-cultural Competence and Increasing Diversity Symposium. Annual meeting of The Wildlife Society, Cleveland, OH. 2018.

Great Lakes Science Boot Camp, Purdue University, West Lafayette, IN. 2018.
 Indiana University Purdue University Fort Wayne (IPFW), Fort Wayne, IN. 2016.
 Purdue Calumet, Hammond, IN. 2015.
 EcoLunch Seminar Series, Purdue University, West Lafayette, IN. 2015.
 University of Illinois, Urbana-Champaign, IL. 2014.
 USDA Forest Service Rainforest Festival, Petersburg, AK. 2011.
 Purdue University, West Lafayette, IN. 2010.
 Casper College, Casper, WY. 2007.
 National Flying Squirrel Association annual meeting. Houston, TX. 2006.

Workshops and Symposia

- E. Flaherty**, Dizney, L., J. Duggan, H. Lanier, K. Munroe, J. Varner, and P. Zollner. *Conferencing 101: Optimize the ASM/IMC Conference Experience*. Workshop. Joint meeting of the American Society of Mammalogists and International Mammal Congress 2023. Anchorage, AK.
- E. Flaherty**, C. Bronson, P. Connors, L. Dizney, J. Duggan, L. Erb, C. Jordan, J. Krumm, H. Lanier, J. Varner, and C. Yahnke. Using networked course-based undergraduate research experiences (CUREs) and open-access digitized collections data to engage your students in mammalogy. Workshop. Joint meeting of the American Society of Mammalogists and International Mammal Congress 2023. Anchorage, AK.
- Blood, B., **E.A. Flaherty**, S. Loeb, and M. Merrick. 2022. *Developing effective curriculum vitae*. Workshop, American Society of Mammalogists 2022. Tucson, AZ.
- Dunlap, K.A., **E.A. Flaherty**, J.L. Loizzo, and G. Ozbay. 2022. National Teaching Workshop Series: *Communicating teaching impact and effectiveness*. APLU Virtual Workshop Series.
- Squirrel-Net. 2022. *Bringing undergraduate research experiences into your class*. Workshop, American Society of Mammalogists 2022. Facilitated by J.M. Duggan, **E.A. Flaherty** Varner, J, P.K. Connors, H.C. Lanier, L.P. Erb, J. Varner, and L. Dizney. Tucson, AZ.
- Flaherty, E.A.** (symposium organizer and presenter) 2021. *Advances in teaching mammalogy: pedagogy and embedding competency*. Symposium, American Society of Mammalogists. Virtual Conference.
- Squirrel-Net. 2021. *Course-based Undergraduate Research Experiences (CUREs) – Educational Workshop for Implementing Mammalogy CUREs into the Undergraduate Curriculum*. Workshop, American Society of Mammalogists 2021. Virtual conference. Facilitated by Varner, J, P.K. Connors, H.C. Lanier,, L.P. Erb, J. Varner, L. Dizney, **E.A. Flaherty**, J.M. Duggan, C.J. Yahnke, and J.D. Hansen.
- Flaherty, E.A.**, L. Erb, and J. Duggan. 2019. *Course-based undergraduate research experiences (CUREs) – Educational workshop for implementing CUREs in wildlife and fisheries courses*. Organizer and presenter. Joint annual conference of the American Fisheries Society and The Wildlife Society, 2019, Reno, NV.
- Flaherty, E.A.**, P.A. Zollner, V.S. Quinn, D. Wood, and R. Urbanek. 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, 2017, Albuquerque, NM.

Funded and Pending Research Grants and Contracts

Wildlife Research

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| 2022 | State of Indiana – <i>Hardwood Ecosystem Experiment, 2022–2024</i> . Mike Saunders (PI), Catherine Aimes, Elizabeth Beilke (Univ Illinois at Champaign), Barny Dunning, Songlin Fei, Elizabeth Flaherty , Jeffrey D. Holland, Kamal Islam (Ball State), Michael Jenkins, Joy O’Keefe (Univ Illinois at Champaign), Keith Summerville (Drake University), and Patrick Zollner. (\$364,440). |
| 2021 | National Science Foundation – <i>Collaborative research: The ecological basis of hunting and meat sharing in female savanna chimpanzees</i> . Stacy Lindshield, Elizabeth Flaherty , and Amy Reibman (\$390,849). |

- 2020 State of Maine – *Role of anthropogenic foods in the diet of black bears in Maine.* **Elizabeth Flaherty** and Dana Morin (\$60,192).
- 2020 US Fish and Wildlife Service and The Nature Conservancy – *Evaluating the carrion base of the American burying beetle using stable isotope analysis.* **Elizabeth Flaherty** and Curtis Creighton (\$5,821).
- 2019 Purdue University, Department of Forestry and Natural Resources Small Grants Competition – *Using stable isotope analysis to investigate the effects of natural enemies on freshwater food webs.* Jason Hoverman and **Elizabeth Flaherty** (\$14,176).
- 2019 Indiana Department of Natural Resources – *Monitoring mussel health using stable isotope analysis.* **Elizabeth Flaherty** (\$2340).
- 2018 Purdue Research Foundation (PRF) 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).
- 2018 Purdue University Research Foundation (PRF) Research Grant to support a graduate student (B. Quinby). **Elizabeth Flaherty**. (\$30,000).
- 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 Burying 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 Flaherty** (\$71,114)

- 2010 USDA Forest Service Cooperative Agreement. *Small mammal responses to precommercial thinning research project*. Awarded to Merav Ben-David and **Elizabeth 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 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 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)

Education

- 2022 Purdue University Study Abroad and International Learning (SAIL) grant – *Environment and culture in the Galápagos*. **Elizabeth Flaherty** (\$5000).
- 2022 Purdue University College of Agriculture and CILMAR – *Cultivating undergraduate intercultural development in agricultural programming*. Elizabeth Karcher and **Elizabeth Flaherty** (\$88,811).
- 2021 Widener University – RCN-UBE: Broadening undergraduate participation in ecology and evolution research through CUREs using digitized natural history collections data. **Elizabeth Flaherty** (\$6,500).
- 2020 National Science Foundation – *Collaborative research: expanding and evaluating an ecological, networked course-based undergraduate research experience*. Hayley Lanier, Jennifer Duggan, Johanna Varner, and **Elizabeth Flaherty** (\$399,861).
- 2019 Purdue Center for Instructional Excellence: Teaching Leadership Award – *Faculty learning community for SoTL in Natural Resource Sciences*. **Elizabeth Flaherty** (\$2000).
- 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).
- 2018 Purdue University Study Abroad and International Learning (SAIL) grant – *Environment and culture in the Galápagos*. **Elizabeth Flaherty** (\$3000).
- 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)

- 2023-pres **Instructor** – FNR 12500: Intro to Environmental Science and Conservation, summer semester.
- 2023 **Instructor** – SA 21268: Culture and Environment in Ecuador and the Galápagos, summer semester.
- 2019 **Instructor** – SA 21268: Culture and Environment in Ecuador and the Galápagos, summer semester.
- 2016–2017 **Co-Instructor** – SA 21255: Cuba: Natural Resources, Farming, and Social Systems (study abroad), spring semester.
- 2015-pres **Instructor** – FNR 59800: Introduction to Teaching Natural Resources, 1-2 credits, spring/fall semester.
- 2015 **Instructor** – FNR 59800: Wildlife Physiology Seminar, 1 credit, spring semester.
- 2014-pres **Co-Instructor** – FNR 49800: Optimizing TWS Meeting Attendance, 1 credit, fall semesters.
- 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 **Instructor** – FNR 34800: Wildlife Investigational Techniques, 3 credits, spring semester.
- 2013-pres **Instructor** – FNR 34100: Wildlife Habitat Management, 3 credits, fall semester.

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 *denotes peer-review

publication resulted from their research

Alexis Proudman* (2021–2024)

Angie Ayala (2022–2023)

Grace Crim (2022–2023)

Kayla Durden (2022–2023)

Raven Moore (2022–2023)
 Rachel Pate (2022–2023)
 Evan Kinnevan (2021–2023)
 Megan Kiselica (2022)
 Sophia Flores (2021–2022)
 Coby Frame (2021)
 Jackson Keesling (2021)
 Dominic Liongson (2021)
 Morgan Watkins* (2021)
 Alexandra Hicks (2019–2021)
 Kris Menghi (2019–2021)
 Emily Tauber* (2019–2021)
 Courtney Kurashima (2019)
 Kylie Rothschild (2018–2019)
 Ashley Higdon* (2017–2019)
 Landon Neumann* (2019–2019)
 Lexi Eiler (2016–2018)
 Zach Truelock (2016–2018)
 Lucas Voorhees (2016–2018)
 Mackensie Carter (2016–2017)
 Hunter Johnstone* (2016–2017)
 Courtney Loudon (2016)
 Matthew Voorhees* (2016)
 Sarah Abercrombie* (2015–2016)
 Sarah Meronk (2015–2016)
 Beth Palm (2015–2016)
 Rachel Steiger (2015–2016)
 Kelton Verble* (2015–2016)
 Jonathan Wu* (2015–2016)
 Joseph Eisinger (2014–2015)
 Jessica Grady (2014–2015)
 Everett Noakes (2010)
 Jeremiah Attebury (2009)
 Carissa Stansbury (2007)
 Emily Averil (2006)

Graduate students

Graduate Committee Chairmanships:

2023-pres. Erin Christian (M.S.), Project: Assessing learning outcomes from a five-week field intensive undergraduate experience.
 2023-pres. Deron Clark (M.S.), Project: Small mammal responses to forest management treatments in eastern hardwood forests.
 2023-pres. Jacob Martinez (M.S), co-advised with Jacob Hosen. Project: Using stable isotopes to evaluate mussel health and role in ecosystems.
 2023-pres. Fanqi Wu (Ph.D.), co-advised with Frank Palladino. Project: Sea turtle physiology and conservation in north Pacific Costa Rica.
 2022–pres Sarah Baker (Ph.D.), co-advised with Patrick Zollner and Robert Swihart. Project: Tree squirrel responses to forest management.
 2020–2022 Jessica Elliott (M.S.), co-advised with Songlin Fei. Project: Using LIDAR to evaluate wildlife habitat in Indiana.
 2017–2022 Camille Griffith (Ph.D.), Co-advised with Patrick Zollner. Project: Managing wild dog populations on the Pine Ridge Reservation in South Dakota. Purdue University.

- 2018–2020 Jameson Pierce (M.S.), Co-advised with Mike Jenkins. Project: White-tailed deer impacts on forested habitats in Indiana. Purdue University.
- 2018–2020 Ashley Archer (M.S.). Project: Habitat associations between the northern flying squirrel and red spruce. Purdue University.
- 2016–2020 Brandon Quinby (Ph.D.), Co-advised with Curtis Creighton at Purdue Northwest. Project: Ecology and ecophysiology of burying beetles in a fragmented eastern deciduous forest. Purdue University.
- 2015–2019 Chelsea Clyde-Brockway (Ph.D.), Co-advised with Frank Palladino at IPFW, Project: Sea turtle physiology, diet, and habitat use. 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):

(Purdue University unless otherwise noted):

Samantha Lima, Ph.D. Forestry and Natural Resources, 2024–Present
 Ruth Bowers-Sword, Ph.D. Forestry and Natural Resources, 2023–Present
 Lacy Dolan, Ph.D., Wildlife, Fisheries, Aquaculture (Mississippi State University), 2019–Present
 Erangi Heenkenda, Ph.D. Forestry and Natural Resources, 2020–2024
 Zackary Delisle, Ph.D., Forestry and Natural Resources, 2018–2023
 Giselle Narvaez Rivera, Ph.D.. Anthropology, 2019–2022
 Jacey Wickenhauser, M.S., Animal Science, 2019–2021
 Nerisa Taua, M.S., Forestry and Natural Resources, 2018–2021
 Logan Billet, M.S., Forestry and Natural Resources, 2018–2020
 Abby-Gayle Prieur, M.S., Forestry and Natural Resources, 2018–2019
 Mariah Mobley, M.S., Botany and Plant Pathology, 2018–2019
 Daniel Bird, M.S., Forestry and Natural Resources, 2017–2019
 Javier Lenzi, Ph.D., Forestry and Natural Resources, 2016–2018
 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
 Carolyn Eckrich, Ph.D., Zoology and Physiology (University of Wyoming), 2010–2017
 Marjie MacGreggor, Ph.D., Zoology and Physiology (University of Wyoming), 2012–2015
 Kristen Schulte, Plan B Thesis, Science and Mathematics Teaching (UW), 2013
 Sarah Walker, Plan B Thesis, Science and Mathematics Teaching (UW), 2012–2013
 R. Keith Mayes, M.S., Zoology and Physiology (University of Wyoming), 2011–2013
 Jarod Waite, Plan B Thesis, Science and Mathematics Teaching (UW), 2011

Professional Service and Activities

American Society of Mammalogists:

Elected member of the ASM Board of Directors (2014–2017; 2021–2024)
 Associate Editor of the Journal of Mammalogy (2021–present)
 Member of the Human Diversity Committee (2017–present)
 Chair of the Travel and Honoraria Committee (2016–present)
 Member of the Education and Graduate Students Committee (2014–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)

Ecological Society of America
 Subject Matter Editor for Ecosphere (2020–2023)
 National Science Foundation
 Proposal Reviewer (2017)
 North American University Fish and Wildlife Programs (NAUFWP)
 Midwest Region Chair (2023–present)
 US Department of Agriculture
 Proposal Reviewer and Panel Member (2018, 2020)
 The Wildlife Society
 Chair elect for the College and University Education Working Group (2023–present)
 Ad Hoc Reviewer for Scientific Journals
 American Midland Naturalist, Biotropica, Ecography, Ecological Applications, Ecology, Ecology and Evolution, Ecosphere, European Journal of Wildlife Research, Human–Wildlife Interactions, Hydrobiologia, Ibis, Integrative and Comparative Biology, Journal of the American Association for Laboratory Animal Science, Journal of Animal Ecology, Journal of Ethology, Journal of Mammalogy, Landscape Ecology, Mammalian Biology, Natural Sciences Education, Naturwissenschaften, North American Colleges and Teachers of Agriculture (NACTA) Journal, Oecologia, Oikos, PLoS ONE, Proceedings of the Indiana Academy of Science, Rapid Communications in Mass Spectrometry, Ursus, Wildlife Interactions

Purdue University Service and Activities

COMMITTEE INVOLVEMENT

Budget, Steering, and Governance Committee	2023–present
Search Committee for Department Head	2021–2022
Member of the Launch Team for the Innovation College, Provost’s Office	2020–2021
Provost Office, Engagement, Societal Impacts Fellow Mentor	2021–2022
Search Committee for Lab Manager	2021–2022
Committee on Guidelines for Teaching Evaluations and CoA Promotion and Tenure	2020
Search Committee for Associate Dean and OAP Director	2019
Faculty Advisor for the Student Chapter of The Wildlife Society	2018–present
Search Committee for Faculty in Horticulture and Landscape Architecture	2018
Member of the Boiler Success Team	2018
College of Agriculture Grade Appeals Committee	2017–2019
Chair for the Ecology Section of the Indiana Academy of Science	2016–2017
Search Committee for the Extension Wildlife Specialist Position	2016
Judge for the Indiana Wildlife Habitat Evaluation Career Development Event Program (WHEP CDE)	2015–2021
Vice chair for the Ecology Section of the Indiana Academy of Science	2015–2016
Woodlands Committee	2015–2016
Indiana Department of Natural Resources Nongame Mammal Technical Advisory Committee (TAC) for the Wildlife Diversity Program (WDP)	2014–present
Boiler Gold Rush Faculty Mentor	2014–2019
Faculty advisor for the Quality Deer Management Association Student Club	2014–2018
Safety Committee	2014–2016
Equipment Committee	2013–2016
Graduate Committee	2014–present
Wildlife Curriculum Committee	2013–present

Professional Membership and Affiliations

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

- Member of the Board of Directors (2015–2017; 2021–2023)
- Member of the Honoraria and Travel Awards Committee (2016–present)
 - Chair of the Honoraria and Travel Awards Committee (2016–2022)
- 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 (2016–present)
- Member of the Native Peoples' Wildlife Management Working Group (2017–present)
- Certified Wildlife Biologist® (2016–present)

Ecological Society of America (2020–present)

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; Life Member)

Association of Biology Laboratory Educators (2011–2013)