



- Pathways to Scientific Teaching Workshop *Dec 2009*
- Teaching Assistant, Earth and Life Science (SCI 226) *Spring 2009*  
The Science of Life (BIO 100) *Fall 2008*  
Behavior and Evolution (BIO 406) *Spring 2008*

### CURRENT PROFESSIONAL SERVICE

#### UW-Stout:

Advisory Boards: Applied Science, Environmental Science, Conservation Biology,  
Nakatani Teaching and Learning Center  
Institutional Animal Care and Use Committee, Chair  
Faculty Senate (Biology)  
General Education Committee (Analytical Reasoning and Natural Science)  
Natural Resource Conservation Concentration Coordinator  
Campus Exterior Development Committee

#### Peer Reviewer:

Journals: Biological Conservation, Ecological Applications, Ecological Monographs,  
Environmental Impact Assessment Review, Journal of Mammalogy, Journal of  
Wildlife Management, Ursus, Wildlife Society Bulletin

Grants: Wind Wildlife Research Fund

Conference Abstracts: Society for Conservation Biology

Other: Manlik, O. 2019. The importance of reproduction for the conservation of slow-  
growing animal populations. Chapter 2 in Reproductive Science in Animal  
Conservation, 2<sup>nd</sup> ed. Editors P Comizzoli, JL Brown, and WV Holt. Springer.  
Cham, Switzerland.

### PREVIOUS RESEARCH EXPERIENCE

US Geological Survey *Denver, CO* *Fall 2013-Summer 2015*

- Research Ecologist  
Develop prioritization and assessment methodology for wildlife affected by wind energy

University of Delaware *Newark, DE* *Fall 2012-Fall 2013*

- Postdoctoral Researcher  
Population modeling of resident Canada geese in the mid-Atlantic flyway

Truman State University *Kirksville, MO* *May 2012*

- Consultant  
Supervised mammal trapping for an undergraduate research course at Vya Ranch, NV

University of Montana *Missoula, MT* *Fall 2005-Fall 2007*

- Research Assistant  
Worked on projects with invasive plants, poverty and conservation, and grizzly bears

Miami University *Lawrence, KS* *Summer 2005*

- Field Technician  
Captured, took tissue samples, radio tracked, and powder tracked prairie voles

Truman State University

Kirksville, MO

- Research Assistant *Spring 2005*  
Developed population model for a rare annual plant
- Lab Assistant, Mammalogy *Spring 2002-Fall 2004*  
Handled and processed mammal specimens for installation in the collection

Missouri Department of Conservation

Kirksville, MO

*Summer 2004*

- Research Assistant  
Compiled scientific literature and made an autecology table for small Missouri mammals

## **PUBLICATIONS**

Diffendorfer, JE, JC Stanton, JA Beston, WE Thogmartin, SR Loss, TE Katzner, DH Johnson, RA Erickson, MD Merrill, and MD Corum. 2021. Demographic and potential biological removal models identify raptor species sensitive to current and future wind energy. *Ecosphere*, 12:e03531.

Diffendorfer, JE, JA Beston, MD Merrill, JC Stanton, MD Corum, SR Loss, WE Thogmartin, DH Johnson, RA Erickson, and KW Heist. 2019. A methodology to assess the national and regional impacts of U.S. wind energy development on birds and bats: U.S. Geological Survey Scientific Investigations Report 2018–5157, 45 p.

Allison, TD, JE Diffendorfer, EF Baerwald, JA Beston, D Drake, AM Hale, CD Hein, MM Huso, SR Loss, JE Lovich, MD Strickland, KA Williams, and VL Winder. 2019. Impacts to wildlife of wind energy siting and operation in the United States. *Issues in Ecology*, 21:1-24. [Press release](#).

Thompson, M, JA Beston, M Etterson, JE Diffendorfer, and SR Loss. 2017. Factors associated with bat mortality at wind energy facilities in the United States. *Biological Conservation*, 215:241-245.

Diffendorfer, JE, JA Beston, MD Merrill, JC Stanton, MD Corum, SR Loss, WE Thogmartin, DH Johnson, RA Erickson, and KW Heist. 2017. A method to assess the population-level consequences of wind energy facilities on bird and bat species. *Wind Energy and Wildlife Interactions*. J Koppel, ed. Springer, Berlin, Germany.

Beston, JA, JE Diffendorfer, SR Loss, and DH Johnson. 2016. Prioritizing avian species for their risk of population-level consequences from wind energy development. *PLOS One* 11: e0150813.

Beston, JA, CK Williams, TC Nichols, and PM Castelli. 2016. A population model for management of Atlantic Flyway Resident Population Canada geese. *Wildlife Society Bulletin* 40: 106-111.

Beston, JA, JE Diffendorfer, and S Loss. 2015. Insufficient sampling to identify species affected by turbine collisions. *Journal of Wildlife Management* 79:513-517.

Beston, JA, CK Williams, PM Castelli, and TC Nichols. 2015. Survival and harvest of Atlantic Flyway Resident Population Canada geese. *Wildlife Society Bulletin* 39:583-592.

Diffendorfer, JE, JA Beston, MD Merrill, JC Stanton, MD Corum, SR Loss, WE Thogmartin, DH Johnson, RA Erickson, KW Heist. 2015. Preliminary methodology to assess the national and regional impact of U.S. wind energy development on birds and bats. U. S. Geological Survey Scientific Investigations Report 2015-5066.

Erickson, RA, EA Eager, JC Stanton, JA Beston, JE Diffendorfer, and WE Thogmartin. 2015. Assessing local population vulnerability to wind energy development with branching process models. *Ecosphere* 6:1-14.

Beston, JA, TC Nichols, PM Castelli, and CK Williams. 2014. Survival of Atlantic Flyway Resident Population Canada geese in New Jersey. *Journal of Wildlife Management* 78:612-619.

Beston, JA and R Mace. 2012. What can harvest data tell us about black bears? *Ursus* 23:30-41.

Beston, JA. 2011. Variation in life history and demography of the American black bear. *Journal of Wildlife Management* 75:1588-1596.

#### **PRESENTATIONS**

Beston, JA. 2020. Effect of small mammal trapping schedule on trapping outcomes and student experience. North American Congress for Conservation Biology. Denver, CO.

Beston, JA. 2020. More frequent trap checks did not affect trapping outcomes and student experience. Ecological Society of America Annual Meeting. Salt Lake City, UT.

Beston, JA. 2020. Mammals of Dunn County. Invited public presentation for the Dunn County Historical Society.

Maxwell, RL and JA Beston. 2019. Density effects on larval survival and pupation of a migratory butterfly. Ecological Society of America Annual Meeting. Louisville, Kentucky.

Muza, K and JA Beston. 2017. Insect diversity found on common milkweed (*Asclepias syriaca*) during Wisconsin growing season. Riveredge Nature Center's Student Research Symposium. Newburg, Wisconsin.

Mohl, EK, JA Beston, S Brauner, JJ Couture, M Koomen, A Kula, AC McCall, and JN Styrsky. 2017. Recruiting participants for a distributed research and education project investigating local adaptation in common milkweed, *Asclepias syriaca*. Ecological Society of America Annual Meeting. Portland, Oregon.

Beston, JA, JE Diffendorfer, J Stanton, and T Katzner. 2016. Assessing the potential effect of wind energy on raptor populations. North American Congress on Conservation Biology, Madison, WI.

- Beston, JA and JE Diffendorfer. 2015. Factors affecting avian fatality at wind turbines. Conference on Wind Energy and Wildlife Impacts, Berlin, Germany.
- Beston, JA and JE Diffendorfer. 2014. Factors affecting avian fatality at wind turbines. AWWI/NWCC Wind Wildlife Research Meeting, Broomfield, CO.
- Beston, JA and JE Diffendorfer. 2014. Prioritization of avian species impacted by wind energy development. Ecological Society of America Annual Meeting, Sacramento, CA.
- Beston, JA and JE Diffendorfer. 2014. Assessing the impact of wind energy on wildlife. USGS Invited Seminar, Upper Midwest Environmental Science Center, La Crosse, WI.
- Beston, JA, TC Nichols, PM Castelli, and CK Williams. 2013. Management of resident Canada geese in the Atlantic Flyway. 26<sup>th</sup> International Congress on Conservation Biology, Baltimore, MD.
- Beston, JA, TC Nichols, PM Castelli, and CK Williams. 2013. Population Modeling for Atlantic Flyway Resident Population Canada geese. Atlantic Flyway Council Summer Meeting, Mystic, CT.
- Beston, JA, TC Nichols, PM Castelli, and CK Williams. 2013. Factors affecting survival of resident population Canada geese in New Jersey. North American Duck Symposium. Memphis, TN.
- Moody, EN, JA Beston, and CL Cooper. 2012. A study of *Escherichia coli* survival in stream water and sediment. American Society for Microbiology General Meeting. San Francisco, CA.
- Beston, JA. 2010. Variation in life history and demography of the American black bear. Ecological Society of America Annual Conference. Pittsburgh, PA.
- Beston, JA. 2009. Variation in life history of the American black bear. Society for Conservation Biology Montana Chapter Meeting. Missoula, MT.
- Beston, JA. 2007. Modeling brown bears and salmon escapement. Guest lecture. University of Helsinki, Finland.
- Beston, JA and T Boucher. 2007. Defining poverty and conservation. 21<sup>st</sup> International Congress on Conservation Biology, Port Elizabeth, South Africa.

## SKILLS

Software: R, WinBUGS/OpenBUGS, ArcGIS, MARK, Mathematica  
 Proficient at capture and handling of small mammals  
 Large mammal capture and handling course, including immobilization methods  
 Other capture experience: black bear, Columbia spotted frog, terrestrial and common garter snakes, western painted turtle, and bats

## GRANTS AND AWARDS

- Consultant: Mohl, E, S Brauner, MJ Koomen, and A McCall. 2020. Complementary approaches investigating local adaptation in common milkweed, *Asclepias syriaca*, using research and education networks. NSF. Awarded \$1,036,758. 2020–2023.
- Mentored UW-Stout Student Dissemination Grant  
Maxwell, R. Density effects on larval development of a migratory butterfly. 2019.
- Mentored UW-Stout Student Research Grants  
Barron, J. Effects of restoration on pollinator abundance and diversity. 2021.  
Muza, K. Insect diversity on common milkweed. 2018.  
Wiley, C. Movement and space use of urban raccoons. 2017.
- UW-Stout Professional Development Grant. 2016.
- Montana Fish, Wildlife and Parks Black Bear Research Grant. 2005–2009.
- The Nature Conservancy Poverty & Conservation and Brown Bear Research Grant. 2007–2008.
- NSF EPSCoR Fellowship. 2005–2007.
- George & Mildred Cirica Scholarship. 2005.
- NSF GRFP Honorable Mention. 2005.
- President’s Recognition Award for Outstanding Academic Achievement. 2005.
- Truman Leadership Award. 2000–2004.
- National Merit Scholar. 2000.

## PROFESSIONAL REFERENCES

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|----------------------|--|
| Dr. Amanda Little    | Professor, Biology<br>University of Wisconsin-Stout<br>Menomonie, WI 54751<br>715.232.1148<br>litlea@uwstout.edu                 |
| Dr. Stephen Nold     | Professor, Biology<br>University of Wisconsin-Stout<br>Menomonie, WI 54751<br>715.232.2630<br>nolds@uwstout.edu                  |
| Dr. Jay Diffendorfer | Research Ecologist<br>USGS GECSC<br>Denver Federal Center, MS 980<br>Denver, CO 80225<br>303.236.5369<br>jediffendorfer@usgs.gov |