

Julie Ann Beston

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EDUCATION

University of Montana	Missoula, MT	<i>Dec 2010</i>
Doctorate of Philosophy in Wildlife Biology		
Truman State University	Kirksville, MO	<i>May 2005</i>
Bachelors of Science in Mathematics and Bachelors of Science in Biology		
Honors: <i>Summa cum laude</i>		

TEACHING EXPERIENCE

University of Wisconsin-Stout	Menomonie, WI	<i>2015-present</i>
Associate Professor of Biology		
Science, the Environment, and Sustainability (BIO 111)		
Zoology Lab (BIO 252)		
Wisconsin Wildlife (BIO 253)		
Ecology (BIO 350)		
Introduction to Biostatistical Analysis (BIO 386)		
Advanced Biology Experience (BIO 489)		
Biological Research Foundations (BIO 710)		
Wildlife Conservation and Management (BIO 725)		
Conservation Biology (BIO 730)		
Field Problems in Conservation Biology (BIO 735)		
Thesis-Conservation Biology (BIO 770)		
Biostatistics I (STAT 730)		
Truman State University	Kirksville, MO	<i>2011-2012</i>
Visiting Assistant Professor		
Mammalogy (BIO 517)		
Introductory Biology I (BIO 107)		
Introductory Biology II (BIO 108)		
Southern Utah University	Cedar City, UT	<i>2010-2011</i>
Adjunct Professor		
Evolution (BIO 3110; co-taught)		
General Biology I and Lab (BIO 1610 and 1615)		
General Biology II Lab (BIO 1625)		
University of Montana	Missoula, MT	<i>2008-2010</i>
Lab Coordinator, Teaching Assistant		
The Science of Life (BIO 100)		
Earth and Life Science (SCI 226)		
Behavior and Evolution (BIO 406)		

CURRENT PROFESSIONAL SERVICE

UW-Stout

Institutional Animal Care and Use Committee (Chair)
Stout Core Committee (Natural Science Representative)
Campus Exterior Development Committee
Natural Resource Conservation Concentration Coordinator
Biology Department Bylaws Committee
Biology Department Ad Hoc Safety Committee
Advisory Committees: Biology, Environmental Science, Conservation Biology, Nakatani
Teaching and Learning Center

Wisconsin Department of Natural Resources

Beaver Management Plan Committee (At large member)

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 and Abstracts: Wind Wildlife Research Fund, Society for Conservation Biology

PREVIOUS RESEARCH EXPERIENCE

US Geological Survey Research Ecologist Development of a prioritization framework for wildlife affected by wind energy	Denver, CO	2013-2015
University of Delaware Postdoctoral Researcher Population modeling of resident Canada geese in the mid-Atlantic flyway	Newark, DE	2012-2013
Truman State University Consultant Supervision of mammal trapping for an undergraduate research course	Vya Ranch, NV	2012
University of Montana Research Assistant Projects with invasive plants, grizzly bears, and poverty and conservation	Missoula, MT	2005-2007
Miami University Field Technician Capture, tissue sampling, and radio and powder tracking of prairie voles	Lawrence, KS	2005
Truman State University Research Assistant Development of a population model for a rare annual plant	Kirkville, MO	2005
Mammalogy Lab Assistant Preparation of mammal species for installation in the natural history collection		2002-2004
Missouri Department of Conservation Research Assistant Creation of an autecology table for the small mammals of Missouri	Kirkville, MO	2004

PUBLICATIONS

- ¹Harrison, BC and JA Beston. 2026. Relationship between endemic and invasive frogs on Grenada. *Ecology and Evolution*, 16:e72889.
- ²Barron, J and JA Beston. 2022. Pollinator abundance and diversity under differing wet prairie management. *Natural Areas Journal*, 42:313-318.
- ³Diffendorfer, 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.
- 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, JE Diffendorfer, and S Loss. 2015. Insufficient sampling to identify species affected by turbine collisions. *Journal of Wildlife Management* 79:513-517.

¹ Underlines indicate UW-Stout student authors or presenters.

² Selected for an open access grant

³ Recognized by Wiley as one of the most downloaded papers during its first 12 months of publication in *Ecosphere* among work published in 2021.

- 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.
- 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

- Dean, C and JA Beston. 2025. Value of beaver-modified streams to bat conservation: Bioacoustic evidence of increased foraging activity. UW-Stout Research Day collaborative presentation. Menomonie, WI.
- Beston, JA. 2025. Where the Wild Things Are. Invited public presentation for the Philosophers' Café. Menomonie, WI.
- ⁴Dean, C and JA Beston. 2025. Value of beaver-modified streams to bat conservation: Bioacoustic evidence of increased foraging activity. Wisconsin Wetlands Association Annual Wetland Science Conference. La Crosse, WI.
- Hayes, NM, JA Beston, E Kalin, and G Parrott. 2024. Spatial patterns of a cyanobacteria toxin in a hypereutrophic lake. Association of the Sciences of Limnology and Oceanography Annual Meeting. Madison, WI.
- Dean, C and JA Beston. 2024. Beaver dam impacts on water quality, trout populations, and biodiversity: Challenges and early evidence. Wisconsin Wetlands Association Annual Wetland Science Conference. Green Bay, WI.
- ⁵Menninga, A. 2023. Effective treatment of invasive Oregon grape. North American Invasive Species Management Association Annual Conference. Lincoln, NE.
- 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. Virtual.

⁴ Selected for the Best Student Oral Presentation Award

⁵ Solo-authored presentation of mentored graduate research

- Maxwell, RL and JA Beston. 2019. Density effects on larval survival and pupation of a migratory butterfly. Ecological Society of America Annual Meeting. Louisville, KY.
- 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, WI.
- 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, OR.
- 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. 26th 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. 21st International Congress on Conservation Biology, Port Elizabeth, South Africa.

GRANTS AND AWARDS

Collaborator on: Hayes, N. 2025. Red Cedar River Basin Monitoring Group: Internship Program and Research Opportunities in Watershed Rehabilitation. Freshwater Collaborative of Wisconsin. \$780,451. Awarded.

Dean, C. 2024. Beaver and trout interactions in west central Wisconsin. George L. Disborough Trout Unlimited Research Grant. Not awarded.

Dean, C. 2024. Investigating beaver impacts on water quality and biodiversity. The Waterbird Society Research Award. Not awarded.

Beston, JA. 2024. Effect of Wisconsin's beaver wetlands on bird and bat diversity. Wildlife Acoustics Product Grant. \$3924. Not awarded.

Dean, C. 2023. Investigating beaver impacts on water quality and biodiversity. SITKA Ecosystem Grant. Not awarded.

Dean, C. 2023. Beaver dam impacts on water quality, trout populations, and biodiversity. UW-Stout Student Research Grant. Awarded.

Dean, C. 2023. Beaver and trout interactions in west central Wisconsin. Xcel Energy Environmental Sustainability Focus Area Grant. Not awarded.

Barron, J and JA Beston. 2022. Bureau of Land Management funding of open-access distributed by the Natural Areas Association. \$2500. Awarded.

2022. Staff/Faculty Recognition in TRIO Student Support Services March 1st newsletter.

Barron, J. 2021. Effects of restoration on pollinator abundance and diversity. UW-Stout Student Research Grant. Awarded.

Consultant on: 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. \$1,036,758. Awarded.

Maxwell, R. 2019. Density effects on larval development of a migratory butterfly. UW-Stout Student Dissemination Grant. Awarded.

Muza, K. 2018. Insect diversity on common milkweed. UW-Stout Student Research Grant. Awarded.

Wiley, C. 2017. Movement and space use of urban raccoons. UW-Stout Student Research Grant. Awarded.

Beston, J. 2016. UW-Stout Professional Development Grant. \$832. Awarded.

2015. Secured an equipment donation of small mammal traps from Jay Diffendorfer to UW-Stout upon hire. Valued at \$4862.

PREVIOUS GRANTS AND AWARDS

Black Bear Research Grant. Montana Fish, Wildlife and Parks. 2005-2009.

Brown Bear and Poverty & Conservation Research Grant. Nature Conservancy 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

Dr. James Burritt	Professor, Biology University of Wisconsin-Stout Menomonie, WI 54751 715.232.5048 burritj@uwstout.edu
Dr. Amanda Little	Professor, Biology University of Wisconsin-Stout Menomonie, WI 54751 715.232.1148 littlea@uwstout.edu
Dr. Jay Diffendorfer	Research Ecologist USGS GECSC Denver, CO 80225 303.236.5369 jediffendorfer@usgs.gov