Matthew M. Smith Summer 2026

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EDUCATION

Ph.D.	Wildlife Ecology	University of Wisconsin-Madison	2023
M.S.	Wildlife Ecology	Washington State University	2017
B.S.	Zoology and Conservation Biology	University of Wisconsin-Madison	2009

RESEARCH POSITIONS AND FELLOWSHIPS

Research Assistant Professor, 2024-present, Spatial and Population Ecology of Carnivores Lab, Caesar Kleberg Wildlife Research Institute, University of Texas A&M Kingsville

Postdoctoral Research Associate, 2023-2024, Department of Forest and Wildlife Ecology, University of Wisconsin-Madison

USGS Midwest Climate Adaptation Science Center Fellow, 2022-2023, Department of Forest and Wildlife Ecology, University of Wisconsin-Madison

RESEARCH FUNDING

Petracca, L.S., **Smith, M.M.**, DeYoung, R.W., Cherry, M.J., Hewitt, D.G., Veals Dutt, A.M., Harveson, L.A., and Karelus. D. Spatially explicit data integration to inform mountain lion distribution and demography in Val Verde County. United States Fish and Wildlife Service, Texas Parks and Wildlife (*$1,200,656*)

Smith, M.M., and Petracca, L.S. The legacy of human land-use and the effect on the recovery of ocelots in an imperiled semi-arid ecoregion. National Geographic Society. (*$19,283*)

Smith, M.M. Mechanisms of species recovery for a forest carnivore in a changing landscape. USGS Midwest Climate Adaptation Science Center Fellow. (*$60,000*)

PEER-REVIEWED PUBLICATIONS *Mentored student

Smith, M.M., Reeves, A.M., and L.S. Petracca. Drought restructures movement and promotes nocturnality within a carnivore community. In review.

Keyser, S.R., **Smith, M.M.**, Notaro, M., Zuckerberg, B., and Pauli, J.N. Warming winters threaten the rewilding and recovery of North America's most translocated carnivore. In review.

Oguchi, Y., *Blackdeer, E.P., **Smith, M.M.**, Suen, G., Caviedes-Vidal, E., Brun, A., Gabriel, M., Wengert, G., Karasov, W.H., and Pauli, J.N. Physiology and the co-occurrence of competing carnivores: The diet and digestive enzymes of fishers (Pekania pennanti) and martens (Martes americana and Martes caurina) in the forests of the Great Lakes and the Pacific Northwest. In review.

Barcelo, G., **Smith, M.M.**, MacFarland, D.M., Price Tack, J.L., and Pauli, J.N. Navigating human landscapes with offspring: Female bears consume human subsidies but avoid risk through spatiotemporal landscape selection. In revision.

*Field, I.I., Pauli, J.N., MacFarland, D.M., Price Tack, J.L., and **Smith, M.M.** 2026. Consumption of anthropogenic foods influences the nutritional and reproductive condition of hunter-harvested black bears. *Wildlife Biology*, e01574. https://doi.org/10.1002/wlb3.01574.

Smith, M.M., Veals Dutt, A.M., Lombardi, J.V., Branney, A.B., Sergeyev, M., Wardle, Z., Reeves, A., Scognamillo, D.G., Tewes, M.E., and Petracca, L.S. 2025. Sex-specific responses to landscape characteristics drive home range size of an endangered carnivore. *Scientific Reports*, 15: 34190. https://doi.org/10.1038/s41598-025-15493-9.

Smith, M.M., MacFarland, D.M., Price Tack, J.L., and Pauli, J.N. 2025. The intentional and unintentional human food subsidy landscape for a large carnivore. *Ecology and Evolution*, 15, e71853. https://doi.org/10.1038/s41598-025-15493-9.

Smith, M.M. and Pauli, J.N. 2023. Small but connected islands can maintain populations and genetic diversity under climate change. *Ecography*, e07119. https://doi.org/10.1111/ecog.07119.

Lacin Alas, B., Rodriquez Curras, M., **Smith, M.M.**, Potvin, L.R., Romanski, M.C., and Pauli, J.N. 2023. The repatriation of wolves to Isle Royale alters the foraging of meso-carnivores. *Journal of Mammalogy*, gyae125. https://doi.org/10.1093/jmammal/gyae125.

Kamoroff, C., Meyer, E., Goldberg, C.S., Parker, S., **Smith, M.M.**, and Reece, J.S. 2023. Investigating aquatic species distributions for Sequoia and Kings Canyon National Parks using paired visual and environmental DNA surveys of streams. *Natural Areas Journal*, 43: 225-234. https://doi.org/10.3375/0885-8608-43.4.225.

Smith, M.M., Erb, J.D., and Pauli, J.N. 2023. Reciprocated competition between two forest carnivores drives dietary specialization. *Journal of Animal Ecology*, 92: 1695–1706. https://doi.org/10.1111/1365-2656.13962.

Smith, M.M., *Knife, C.G., Eklund, D., Heeringa, B., and Pauli, J.N. 2023. Predicting and prioritizing genetic diversity outcomes of animal translocations. *Conservation Science and Practice*, 5: e12937. https://doi.org/10.1111/csp2.12937.

Smith, M.M., Erb, J.D., and Pauli, J.N. 2022. Seasonal heterogeneity drives survival of a forest carnivore in a changing world. *Proceedings of the Royal Society B*, 289: 20220833, https://doi.org/10.1098/rspb.2022.0833.

Smith, M.M. and Goldberg C.S. 2022. Facilitative interaction promotes occupancy of a desert amphibian across a climate gradient. *Oecologia*, 198: 815-823. https://doi.org/10.1007/s00442-022-05127-6.

Moss, W.E., Harper, L.R., Davis, M.A., Goldberg, C.S., **Smith, M.M.**, and Johnson P.T.J. 2022. Navigating the tradeoffs between environmental DNA and conventional field surveys for improved amphibian monitoring. *Ecosphere*, 13: e3941. https://doi.org/10.1002/ecs2.3941.

Smith, M.M., Gilbert, J.H., Olson, E.R., Scribner K.T., Van Deelen, T.R., Van Stappen, J.F., Williams, B.W., Woodford, J.E., and Pauli, J.N. 2021. A recovery network leads to the natural recolonization of an archipelago and a potential trailing edge refuge. *Ecological Applications*, 31: e02416. https://doi.org/10.1002/eap.2416.

Farwell, L.S, Gudex-Cross, D., Anise, I.E., Bosch, M.J., Olah, A.M., Radeloff, V.C., Razenkova, E., Rogova, N., Silveira, E.M.O., **Smith, M.M.,** and Pidgeon, A.M. 2020. Satellite image textures capture multiple features of vegetation heterogeneity important for predicting patterns of bird richness. *Remote Sensing of Environment* 253: 112175. https://doi.org/10.1016/j.rse.2020.112175.

Smith, M.M. and Goldberg C.S. 2020. Occupancy in dynamic systems: accounting for multiple scales and false positives using environmental DNA to inform monitoring. *Ecography*, 43: 376-386. https://doi.org/10.1111/ecog.04743.

Pauli, J.N., Manlick, P.J., Dharampal, P.S., Takizawa, Y., Chikaraishi, Y., Niccolai, L.J., Grauer, J.A., Black, K.L., Garces Restrepo, M., Perrig, P.L., Wilson, E.C., Martin, M.E., Rodriguez Curras, M., Bougie, T.A., Thompson, K.L., **Smith, M.M.,** and Steffan, S.A. 2019. Quantifying niche partitioning and multichannel feeding among tree squirrels. *Food Webs*, 21: e00124. https://doi.org/10.1016/j.fooweb.2019.e00124.

Moyer-Horner, L., **Smith, M.M.,** and Belt, J. 2012. Citizen science and observer variability during American pika surveys. *The Journal of Wildlife Management*, 76: 1472-1479. https://doi.org/10.1002/jwmg.373

MANUSCRIPTS IN PREPARATION *Mentored student; [an additional 3 manuscripts not shown]

Smith, M.M., Tewes, M.E., Reeves, A.M., and L.S. Petracca. Selection for resource stability mediates resource limitations during drought.

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BOOK CHAPTERS

Pauli, J.N., Shiratsuru, S., **Smith, M.M.**, Rodriquez Curras, M. 2026. Non-lethal effects impact carnivore population persistence. In: *Apex Predators in the Anthropocene: How Humans Shape Large Carnivore Populations*. Montgomery, R.A, and Moll, R.J. (eds). Oxford University Press. https://doi.org/10.1093/9780191996665.001.0001.

OTHER PUBLICATIONS

Smith, M.M., Reeves, A.M., and L.S. Petracca. 2026. Drought changes carnivore movement and landscape use in South Texas. Caesar Kleberg Wildlife Research Institute Current Research Report 2025-2026.

Smith, M.M. 2026. Drought and the impact of wildlife movement. Wildlife Research, Caesar Kleberg Wildlife Research Institute Quarterly Newsletter.

Smith, M.M., Veals Dutt, A.M., Lombardi, J.V., Branney, A.B., Reeves, A.M., Scognamillo, D.G., Sergeyev, M., Wardle, Z.M., Tewes, M.E., and L.S. Petracca. 2025. Ocelot home range dynamics in South Texas. Caesar Kleberg Wildlife Research Institute Current Research Report 2024-2025.

Smith, M.M., and L.S. Petracca. 2025. Drought changes the movement and behavior of ocelots and habitat use with bobcats. Caesar Kleberg Wildlife Research Institute Current Research Report 2024-2025.

Smith, M.M., and L.S. Petracca. 2024. How does weather affect ocelot movement and habitat use? Caesar Kleberg Wildlife Research Institute Current Research Report 2023-2024.

INVITED PRESENTATIONS

Symposium speaker, Wisconsin Initiative on Climate Change Impacts, January 2023
Invited speaker, Wisconsin Marten and Small Mammal Research Meeting, June 2022
Symposium speaker, Apostle Islands Resource Stewardship Symposium, March 2021
Symposium speaker, Wisconsin Chapter of The Wildlife Society, February 2021

PROFESSIONAL PRESENTATIONS (not shown: 15 coauthored presentations)

Speaker, The Texas Chapter of the Wildlife Society Annual Meeting, February 2026
Speaker, The Wildlife Society Annual Meeting, October 2025
Speaker, International Congress for Conservation Biology, June 2025
Poster, International Congress for Conservation Biology, June 2025
Speaker, The Texas Chapter of the Wildlife Society Annual Meeting, February 2025
Speaker, The Wildlife Society Annual Conference, October 2024
Speaker, American Society of Mammalogists Annual Meeting, July 2023
Poster, USGS Midwest Climate Adaptation Science Center Annual Gathering, August 2022
Speaker, Wisconsin Chapter of the Wildlife Society Annual Meeting, March 2022
Speaker, American Society of Mammalogists Annual Meeting, June 2021
Speaker, American Society of Mammalogists Annual Meeting, June 2019
Speaker, International Martes Symposium, July 2018
Speaker, WI American marten advisory and stakeholder committee meeting, 2017, 2019, 2021
Speaker, The Wildlife Society Annual Conference, October 2016
Speaker, Society of Northwestern Vertebrate Biology, February 2015

MENTORSHIP (^Co-advisor, #Committee member, *Publication)

Tam Ta#	MS Thesis	TAMUK	2025-present	Ocelot genomics
Raymond Turner#	MS Thesis	TAMUK	2025-present	Spatial ecology
Truman Collins^	MS Thesis	TAMUK	2025-present	Community ecology
Chloe Nouzille	PhD Diss.	TAMUK	2025-present	Movement/landscape ecology
Katherine McDaniel#	MS Thesis	TAMUK	2024-2026	Cougar genetics/ecology
Alexandria Hiott	MS Thesis	TAMUK	2024-2025	Movement ecology
Tyler Bostwick	MS Thesis	TAMUK	2024-2025	Ocelot genomics
Isabel Field*	Senior Thesis	UW-Madison	2022-2023	Bear foraging ecology
Emma Blackdeer*	MS Thesis	UW-Madison	2021-2023	Mustelid diet/genetics
Callie Jordan	Ind. Research	UW-Madison	2021	Squirrel behavior
Clare Knife*	Senior Thesis	UW-Madison	2020-2021	Grouse genetics

Clare Knife	Ind. Research	UW-Madison	2018-2020	Genetics/spatial ecology

TEACHING

Instructor, Workshop, Geospatial Analysis in R, International Congress for Conservation Biology, June 2025
TA, Introductory biology, University of Wisconsin, Spring 2022
TA and Lecturer, Wildlife techniques, University of Wisconsin, Fall 2020, 2021
Instructor, Workshop, Conservation Genetics and Applications, UW-Madison, 2020
Instructor, Workshop, Monitoring aquatic biodiversity with molecular tools, Pittsburgh, PA, 2016

AWARDS AND SMALL GRANTS

Best Dissertation, Department Forest and Wildlife Ecology University of Wisconsin-Madison, 2024
American Society of Mammalogists Travel Grant, 2023
Aldo Leopold Memorial Scholarship, Wisconsin Chapter of the Wildlife Society, 2023
Grants-in-aid of Research, American Society of Mammalogists, 2021
Martes Working Group Travel Award, 2018
The Wildlife Society Student Travel Grant, 2016
The Society of Northwestern Vertebrate Biology- 3 Sigma Institute Award, 2015

AD-HOC PEER REVIEW

Ecological Applications, Ecology and Evolution, Environmental DNA, Frontiers in Ecology and the Environment, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Mammalogy, Landscape Ecology, Mammalian Biology, Oecologia, Proceedings of the National Academy of Sciences

PROFESSIONAL AFFILIATIONS

American Society of Mammalogists, Martes Working Group, The Society for Conservation Biology, The Wildlife Society