

Maximillian R. Larreur

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Education

Ph.D. in Agricultural Science

*Spring 2025

Southern Illinois University, Carbondale, Illinois

Dissertation: "Spatial distributions and occupancy dynamics of carnivores in a central hardwood forest"

M.S. in Horticulture and Natural Resources

2018

Kansas State University, Manhattan, Kansas

Thesis: "Quantifying the effects of invasive hybrid cattail expansions on native wildlife communities"

B.S. in Biology – Ecology and Conservation emphasis

2015

Franklin College, Franklin, Indiana

Professional Positions

Graduate Research and Teaching Assistant

2021 - Present

Department of Agriculture Science, Southern Illinois University, Carbondale, Illinois

Regional Predation Management Biologist

2019 - 2021

Florida Fish & Wildlife Conservation Commission, Fort Myers, Florida

Marine Ecology Instructor

2019

Cape Eleuthera Institute, Eleuthera, The Bahamas

Wildlife Research Technician

2018

Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS

Graduate Research and Teaching Assistant

2016 - 2018

Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS

Waterbird Monitoring Intern

2015 - 2016

Prescott College Kino Bay Center, Kino Bay, Sonora, Mexico

Biological Research Assistant

2015

Turtle-Trax, PRETOMA, Costa de Oro, Costa Rica

Wildlife Research Technician

2014

Forbes Biological Station, Havana, Illinois

Marine Mammal Intern

2014

Oceans Mammal Institute, Maui, Hawaii

Publications

Larreur, M. R., J. J. Remmers, E. M. Audia, T. Suriyamongkol, K. M. Buckman, B. S. Pease, G. Bastille-Rousseau, C. K. Nielsen. **In-Preparation.** Co-occurrence patterns of native and non-native den users. **Diversity and Distributions.**

Larreur, M. R., C. K. Nielsen, and G. Bastille-Rousseau. **In-Preparation.** Exurban Influence on Spatial Distributions of Native and Domestic Canids and Felids. **Diversity and Distributions.**

Larreur, M. R., C. K. Nielsen, D. B. Lesmeister, and G. Bastille-Rousseau. **In-Preparation.** Long-term multi-season occupancy dynamics of a widely-distributed mesocarnivore guild. **Ecography.**

Larreur, M. R., C. K. Nielsen, D. B. Lesmeister, and G. Bastille-Rousseau. **In-Review.** Decadal temporal dynamics and potential niche separation amongst carnivores. **Oikos.**

Larreur, M. R., J. J. Remmers, E. M. Audia, T. Suriyamongkol, K. M. Buckman, N. A. Pershyn, B. S. Pease, G. Bastille-Rousseau, C. K. Nielsen. **Accepted.** Drivers of nine-banded armadillo occupancy and expansion near the edge of their northern range. **Journal of Mammalogy.** <https://doi.org/10.1093/jmammal/gyae158>

Larreur, M. R., C. K. Nielsen, D. B. Lesmeister, and G. Bastille-Rousseau. 2025. The Precipitous Decline of a Gray Fox Population. **Global Ecology and Conservation** e03441. <https://doi.org/10.1016/j.gecco.2025.e03441>

Bastille-Rousseau, G., S. A. Crews, E. B. Donovan, M. E. Egan, N. T. Gorman, J. B. Pitman, A. M. Weber, E. M. Audia, **M. R. Larreur,** H. Manninen, and S. Blake. 2024. A multi-property assessment of intensity of use provides a functional understanding of animal movement. **Methods in Ecology and Evolution** 15: 345-357.

Fournier, A. M. V., J. D. Lancaster, A. P. Yetter, C. S. Hine, T. Beckerman, J. Figge, A. Gioe, M. Greider-Wagner, D. Jen, C. Johnson, **M. R. Larreur,** A. Shaw, K. Wolter, M. Wood, D. K. Wu, B. J. O'Neal and H. M. Hagy. 2021. Nest success and nest site selection of wetland birds in a restored wetland system. **Avian Conservation and Ecology** 16: 6.

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. 2020. Cross-scale interactions and non-native cattails influence the distributions of a wetland-obligate species. **Landscape Ecology** 35: 59-68.

Wesche, S. L., B. J. O'Neal, S. K. Windels, B. T. Olson, **M. R. Larreur,** and A. A. Ahlers. 2018. Influence of Invasive Hybrid Cattails on Resource Selection by Common Loons. **Wildlife Society Bulletin** 42: 166-171.

Presentations

Larreur, M. R., C. K. Nielsen, D. B. Lesmeister, and G. Bastille-Rousseau. 2025. Temporal dynamics and potential niche separation amongst carnivores: a decadal analysis. **85th Midwest Fish and Wildlife Conference, St. Louis, Missouri.**

Larreur, M. R., D. B. Lesmeister, C. K. Nielsen, and G. Bastille-Rousseau. 2023. Validating a spatial model for declining gray foxes (*Urocyon cinereoargenteus*). *The Wildlife Society 30th Annual Conference, Louisville, Kentucky.*

Larreur, M. R., D. B. Lesmeister, C. K. Nielsen, and G. Bastille-Rousseau. 2023. Validating a spatial model for declining gray foxes (*Urocyon cinereoargenteus*). *83rd Midwest Fish and Wildlife Conference, Overland Park, Kansas.*

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. 2019. Cross-scale interactions shape the spatial distribution of a wetland-obligate species. *Central Mountains and Plains Section of The Wildlife Society Annual Meeting, Bismarck, North Dakota.*

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. 2019. Cross-scale interactions shape the spatial distribution of a wetland-obligate species. *American Society of Mammalogists Conference, Washington D.C.*

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. 2018. Assessing non-invasive survey techniques for semi-aquatic mammals in lentic wetland habitats. *Central Mountains & Plains Section of The Wildlife Society Annual Meeting, Kearney, Nebraska. (2nd place, best student poster presentation)*

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. 2018. Quantifying the impacts of invasive hybrid cattails on the spatial distribution of semi-aquatic mammals. *Kansas Natural Resources Conference, Manhattan, Kansas.*

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. 2018. Assessing non-invasive survey techniques for semi-aquatic mammals in lentic wetland habitats. *Kansas Natural Resources Conference, Manhattan, Kansas (awarded best student poster presentation).*

Wesche S., B. J. O'Neal, S. K. Windels, **M. R. Larreur**, and A. A. Ahlers. 2018. Influence of invasive hybrid cattails on habitat use by common loons. *Kansas Natural Resources Conference, Manhattan, Kansas.*

Wesche S., B. J. O'Neal, S. K. Windels, **M. R. Larreur**, and A. A. Ahlers. 2018. Influence of invasive hybrid cattails on habitat use by common loons. *Annual Conference of the Indiana Chapter of The Wildlife Society, Lafayette, Indiana.*

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. 2017. Assessing non-invasive survey techniques for semi-aquatic mammals in lentic wetland habitats. *Kansas State University, Manhattan, Kansas.*

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. 2017. Quantifying the impacts of invasive hybrid cattails on the spatial distribution of muskrats. *Midwest Furbearer Workshop, Decorah, Iowa.*

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. 2016. Quantifying the impacts of invasive hybrid cattails on the spatial distribution of muskrats. *Kansas Natural Resources Conference.*

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. 2016. Quantifying the impacts of invasive hybrid cattails on the spatial distribution of muskrats. *Central Plains Society of Mammologist Annual Conference.*

Larreur, M. R., S. K. Windels, B. T. Olson, and A. A. Ahlers. Quantifying the impacts of invasive hybrid cattails on the spatial distribution of muskrats. *The Wildlife Society 23rd Annual Conference, Raleigh, North Carolina*.

O’Neal, B. J., H. Hagy, **M. R. Larreur**, M. D. Wood, K. Wolter, D. Jen, and J. Figgee. Breeding Ecology of Marsh Birds in a Restored Floodplain of the Illinois River. *Illinois Ornithological Society Annual Meeting*.

Jen, D., **M. R. Larreur**, C. Johnson, B. O’Neal, and H. Hagy. 2014. Breeding Ecology of Waterbirds in a Restored Floodplain of the Illinois River. *National Great Rivers Research and Education Center Intern Symposium, East Alton, Illinois*.

Courses Taught

Southern Illinois University

Instructor

- Forest Management for Wildlife, FOR 405

Kansas State University

Graduate Teaching Assistant

- Firearms Cartridges and Ballistics, WOEM 201
- Waterfowl and Wetland Management, WOEM 561
- Big Game Management, WOEM 555

Guest Lectures

Big game hunting and conservation – Southern Illinois University ZOOL 468 - 2023

Semiaquatic mammal occupancy and invasive species – Southern Illinois University FOR 451 - 2023

Mesocarnivore spatiotemporal dynamics – Southern Illinois University 468- 2022

Midwest mesocarnivore guild occupancy dynamics – Southern Illinois University FOR 405 - 2022

Gray fox occupancy decline and spatial modeling – Southern Illinois University FOR 405 - 2022

Semi-aquatic mammal occupancy dynamics – Southern Illinois University FOR 405 - 2022

Semi-aquatic mammal occupancy dynamics – Southern Illinois University FOR 405 - 2021

Predation Management Techniques for Shorebirds – Florida Gulf Coast University - 2019

Awards and Scholarships

2023 Richard Daniel Memorial Scholarship, Illinois Trappers Association (\$1000)

2023 Janice Lee Fenske Memorial Award (*finalist*)

2021 Richard Daniel Memorial Scholarship, Illinois Trappers Association (\$1000)

2018 Central Mountains & Plains Section of The Wildlife Society 2nd Place Poster

2018 Kansas Natural Resources Conference Best Poster Presentation Award (\$100)

2016	Kansas Natural Resources Conference Student Scholarship (\$500)
2016	Kansas State University Student Travel Grant (\$250)

Professional Services

Professional society membership

2021 - Present	The Wildlife Society, North Central Section
2021 - Present	The Wildlife Society, Illinois Chapter
2020 - 2021	The Wildlife Society, Florida Chapter
2020 - 2021	The Wildlife Society, Southeastern Section
2018 - 2020	American Society of Mammalogists
2018 - Present	The Wildlife Society, Kansas Chapter
2018 - Present	The Wildlife Society, Central Mountains and Plains Section
2016 - Present	The Wildlife Society

Working group membership

2020 - 2021	Hunting, Trapping and Conservation Working Group; The Wildlife Society
2020 - Present	Wildlife and Habitat Restoration Working Group; The Wildlife Society
2018 - 2021	Early Career Professional Working Group; The Wildlife Society
2018 - Present	Spatial Ecology & Telemetry Working Group; The Wildlife Society
2018 - 2021	Student Development Working Group; The Wildlife Society
2016 - Present	Wetlands Working Group; The Wildlife Society
2018 - 2019	Backcountry Hunters and Anglers, Kansas State University Chapter

Volunteer Experience

2019	Stingray captures and biometric workups, Eleuthera, The Bahamas
2019	Coral out-planting along Bahamian reefs, Eleuthera, The Bahamas
2019	Benthic organism light trapping, Eleuthera, The Bahamas
2018	Camera trapping carnivores, Manhattan, KS
2016	Environmental education workshops, Sonora, Mexico
2016	Bald eagle banding, International Falls, MN
2015	Whale photo ID, Sonora, Mexico
2015	Marine mammal and sea turtle necropsies, Sonora, Mexico
2015	Waterfowl banding, Houma, LA
2014	Goose banding, Havana, IL

2014	Waterfowl banding, Havana, IL
2013	Mist netting Northern Saw-Whet Owls, Lafayette, IN

Certifications

2021	Professional Certification in Data Analysis for Life Sciences (R)
2020	Dive Master, PADI; <i>in progress</i>
2020	Data Analysis for Life Sciences in program R
2020	Florida Fish and Wildlife Supervisor Online Learning, Florida Fish and Wildlife
2020	Basis of Wildlife Governance in Florida, Florida Fish and Wildlife
2019	Team Building/DISC Workshop, Florida Fish and Wildlife
2019	Meeting Management Certification, Florida Fish and Wildlife
2018	Rescue Scuba Diver Certification, PADI
2017	Advanced Open Water Scuba Certification, PADI
2016	Open Water Scuba Certification, PADI
2016	Motorboat Operator Certification Course, US Department of Interior