

Megan Dudenhoeffer

Personal email: megan.om.dudenhoeffer@gmail.com

Personal Website: <https://megandudenhoeffer.weebly.com/>

Education

Jan 2022-present	Ph.D. Forest and Wildlife Ecology, University of Wisconsin-Madison
2020	M.Sc. Biological Sciences, Department of Biological Sciences, University of Manitoba
2017	B.Sc. Zoology, Department of Zoology & Physiology, University of Wyoming
2017	B.Sc. Russian, Department of Modern Languages, University of Wyoming

Employment

2020-2021	Assistant Research Scientist, Wildlife Genomics & Disease Ecology Laboratory, University of Wyoming.
Summer 2017	Field Technician, Evolutionary Ecology Lab, University of Wyoming.
2016-2017	Lab Technician, Behavioral Ecology Lab, University of Wyoming.
Summer 2016	Field Technician, Wyoming Natural Diversity Database, University of Wyoming.
Summer 2015	Undergraduate Research Fellow, University of Wyoming.
2014-2015	Lab Technician, Huntington's Disease Research Laboratory, University of Wyoming.
2014	Lab Technician, Wyoming State Veterinary Laboratory, University of Wyoming.
2013	Lab Technician, Wildlife Disease Laboratory, Wyoming Game and Fish Department.

Publications

Peer-Reviewed Journal Articles

2022	Mackenzie, A.M.*, Dudenhoeffer, M.* , Bangoura, B., Sehgal, N.M.R., Tell, L.A., Godwin, B.L., & Ernest, H.B. Prevalence and diversity of haemosporidians in a migratory high-elevation hummingbird in North America. <i>Parasitology Research</i> . https://doi.org/10.1007/s00436-021-07407-1 *authors contributed equally
2022	Alston, J., Reed, C., Khasoha, L., Brown, B., Busienei, G., Carlson, N., Coverdale, T., Dudenhoeffer, M. , Dyck, M., Ekeno, J., Hassan, A., Hohbein, R., Jakopak, R., Kimiti, B., Kurukura, S., Lokeny, P., Louthan, A., Musila, S., Musili, P., Tindall, T., Weiner, S., Kartzinel, T., Palmer, T., Pringle, R. & Goheen, J. Ecological consequences of large herbivore exclusion in an African savanna: 12 years of data from the UHURU experiment. <i>Ecology</i> . https://doi.org/10.1002/ecy.3649

- 2021 **Dudenhoeffer, M.**, Roth, J.D., Johnson, L.K., & Petersen, S.D. Arctic fox winter dietary response to damped lemming cycles estimated from fecal DNA. *Journal of Mammalogy*. <https://doi.org/10.1093/jmammal/gyab115> (Editor's choice)
- 2021 Barocas, A., Golden, H.N., **Dudenhoeffer, M.**, & Ben-David, M. Sociality and signaling activity modulate information flow in river otter communication networks. *Behavioral Ecology*, 32(1), 60-68. <https://doi.org/10.1093/beheco/araa102>
- 2018 **Dudenhoeffer, M.**, & Hodge, A.M. Opposing forces of seed dispersal and seed predation by mammals for an invasive cactus in Central Kenya. *African Journal of Ecology*, 56(2), 179-184. <https://doi.org/10.1111/aje.12504>
- 2016 Berggren, K.L., Lu, Z., Fox, J.A., **Dudenhoeffer, M.**, Agrawal, S., & Fox, J.H. Neonatal iron supplementation induces striatal atrophy in female YAC128 Huntington's disease mice. *Journal of Huntington's Disease*, 5(1), 53-63. <https://content.iospress.com/articles/journal-of-huntingtons-disease/jhd150182>

Other Publications

- 2018 **Dudenhoeffer, M.** & Warret Rodrigues, C. Arctic foxes and researchers: Facing the consequences of Arctic warming. Prepared for Arctic Focus. Available [here](#).

Grants, Fellowships, and Honors (>\$80,000 collectively)

- 2019 In-kind-support, Churchill Northern Studies Centre.
- 2019 Research Award, Oakes-Riewe Environmental Studies, University of Manitoba.
- 2019 Bursary Award, Manitoba Big Game Trophy Association.
- 2018 In-kind-support, Churchill Northern Studies Centre.
- 2018 Grant in Aid of Research, American Society of Mammalogists.
- 2018 Fish and Wildlife Enhancement Fund (Project Partner), Manitoba Sustainable Development.
- 2018 Graduate Fellowship, University of Manitoba.
- 2018 International Graduate Student Entrance Scholarship, University of Manitoba.
- 2015 Undergraduate Research Fellowship, Experimental Program to Stimulate Competitive Research (EPSCoR), University of Wyoming.
- 2015 Undergraduate Research Grant, College of Arts and Sciences, University of Wyoming.
- 2015 Research Excellence Award, Center for Global Studies, University of Wyoming.
- 2015 Undergraduate Research Grant, Haub School of Environment and Natural Resources, University of Wyoming.

Presentations

- 2021 **Dudenhoeffer, M.** Hemoparasite prevalence and diversity in Rocky Mountain hummingbirds. *The Wildlife Society Conference*. Poster presentation.

- 2021 **Dudenhoeffer, M.** Winter scat sampling protocols for non-invasive genetic sampling of Arctic foxes: Sample age doesn't matter. *American Society of Mammalogists Conference*. Poster presentation.
- 2019 **Dudenhoeffer, M.** Arctic fox winter diet revealed by next-generation sequencing of fecal DNA. *American Society of Mammalogists Conference*. Oral presentation.
- 2019 **Dudenhoeffer, M.** What poo can tell you about Arctic fox diet. *Lunch and Learn Series, Assiniboine Park Zoo*. Oral presentation.
- 2019 **Dudenhoeffer, M.** Diet diversity of an Arctic predator revealed by next-generation sequencing of fecal DNA. *Prairie University Biological Symposium*. Oral presentation.
- 2019 **Dudenhoeffer, M.** Using non-invasive sampling to reconstruct fox diet in Northern Manitoba. *Darwin Day Symposium, University of Manitoba*. Oral presentation.
- 2018 **Dudenhoeffer, M.** Fox diet and population dynamics in Northern Manitoba. *Wildlife Society Manitoba Chapter Fall Mixer*. Oral presentation. Available [here](#).
- 2018 **Dudenhoeffer, M.** Opposing forces of seed dispersal and seed predation by mammals for an invasive cactus in Central Kenya. *Wildlife Society Manitoba Chapter Winter Getaway*. Oral presentation.
- 2017 **Dudenhoeffer, M.** Pricks and Predators. *University of Manitoba Departmental Seminar Series*. Oral presentation.
- 2016 **Dudenhoeffer, M.** Opposing forces of seed dispersal and seed predation by mammals for an invasive cactus in Central Kenya. *American Society of Mammalogists Conference*. Poster presentation.
- 2016 **Dudenhoeffer, M.** Opposing forces of seed dispersal and seed predation by mammals for an invasive cactus in Central Kenya. *Global Studies seminar series: Wyoming Goes Global Conference*. Oral presentation. Available [here](#).

Teaching Experience

Teaching Assistant

- | | |
|-------------------------|---|
| Fall 2019 | Biology of Mammals, University of Manitoba. |
| Fall 2018 | Methods of Data Collection and Analysis in Ecology, University of Manitoba. |
| Spring 2017, 2018, 2019 | Arctic Field Ecology Course, University of Manitoba. |
| Fall 2014 | Mammalogy (Undergraduate TA), University of Wyoming. |

Guest Lecturer

- | | |
|-----------------|---|
| Spring 2019 | Biological Diversity and Interaction, University of Manitoba. |
| Fall 2018, 2019 | Skills in Biological Sciences, University of Manitoba. |

Professional Service

- | | |
|------|---|
| 2020 | Graduate Student Awards Committee, University of Manitoba Graduate Students' Association. |
| 2020 | Volunteer Judge, Wyoming State Science Fair. |

- 2019-present Peer reviewer: Journal of Mammalogy, Ecology and Evolution, Conservation Science and Practice, Forensic Science International.
- 2019-present Conservation Committee Member, American Society of Mammalogists.
- 2018-2019 Member at Large, Wildlife Society Manitoba Chapter.
- 2018 Public outreach, Identifying rodents in the Churchill area. Parks Canada Day.
- 2018 Workshop, Arctic fox dissections. Churchill High School Grade 12 Class.
- 2018 Workshop, Wolverine dissections. Parks Canada Junior Rangers.
- 2017 Public outreach, Arctic food webs and careers in science. WISE Kid-Netic Energy Girls Club: Meet a Scientist Day.

Professional Affiliations

- 2018-present The Wildlife Society.
- 2017-2019 Manitoba Chapter of the Wildlife Society.
- 2016-present American Society of Mammalogists.