

DEPARTMENT OF BIOLOGY
SEATTLE UNIVERSITY
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Mark J. Jordan

EDUCATION

- PhD University of California, Berkeley** **2007**
Environmental Science, Policy, and Management
Dissertation: Fisher Ecology in the Sierra National Forest, California
Committee: Reginald H. Barrett (chair), Justin S. Brashares, Eileen A. Lacey, Per J. Palsbøll
- BS University of Puget Sound** **1997**
Biology, Minor: Chemistry
Phi Beta Kappa, Coolidge Otis Chapman Honors Scholar
Thesis: A Behavioral Analysis of Differential Wing-Spreading in Cormorants of Washington State
Advisor: Dennis R. Paulson

ACADEMIC APPOINTMENTS

- 2017 - Associate Professor of Biology, Seattle University**
- 2012 - 2017 Assistant Professor of Biology, Seattle University**
- 2011 - 2012 Adjunct Professor of Biology, Vermont Law School**
- 2007 - 2012 Assistant Professor of Biology, Green Mountain College**

TEACHING EXPERIENCE

Seattle University

Biology II: Evolution and Ecology, Ecology, Conservation Biology, Wildlife Ecology,
Biology Research: Development and Practice, Data Science for Ecology and Global Change,
Biology Senior Synthesis, Undergraduate Research, The Environmental Skeptic (core),
Conserving Large Carnivores (core)

Vermont Law School

Ecology / Science for Environmental Law

Green Mountain College

Biology Reading Seminar, The Four Seasons: Plant and Animal Adaptations to Life in a
Changing Environment, Ecology, Conservation Biology, Vertebrate Population Monitoring,
Environmental Science (core), Dimensions of Nature (core), Natural Systems Ecology
(graduate), Conservation Biology (graduate)

PEER REVIEWED PUBLICATIONS

(* indicates student)

- Kays, R., M.V. Cove, J. Diaz [and 150 other authors including **M. J. Jordan**]. 2022. SNAPSHOT USA 2020: A second coordinated national camera trap survey of the United States during the COVID-19 pandemic. *Ecology*. e3775.
- Mims, D. M. *, S. A. Yasuda*, **M. J. Jordan**. 2022. Contrasting activity times from camera traps between urban Virginia opossums (*Didelphis virginiana*) and raccoons (*Procyon lotor*). *Northwestern Naturalist* 103(1): 63-75.
- Magle, S. B., M. Fidino, H. A. Sander, A. T. Rohnke, K. L. Larson, T. Gallo, C. A. M. Kay, E. W. Lehrer, M. H. Murray, S. A. Adalsteinsson, A. A. Ahlers, W. J. B. Anthonyamy, A. R. Gramza, A. M. Green, **M. J. Jordan**, J. S. Lewis, R. A. Long, B. MacDougall, M. E. Pendergast, K. Remine, K. Conrad Simon, C. C. St. Clair, C. J. Shier, T. Stankowich, C. J. Stevenson, A. J. Zellmer, C. J. Schell. 2021. Wealth and urbanization shape medium and large terrestrial mammal communities. *Global Change Biology*. 27(21): 5446-5459.
- Cove, M., R. Kays, H. Bontrager, [and 151 other authors including **M. J. Jordan**]. 2021. SNAPSHOT USA 2019: a coordinated national camera trap survey of the United States. *Ecology*. 102(6): e03353.
- Jordan, M. J.** and M. Lobb-Rabe.* 2015. An evaluation of methods to attract urban mesocarnivores to track plates and camera traps. *Northwest Science*. 89(4): 383-392.
- Miller, H. E. *, and **M. J. Jordan**. 2012. Relationship between exotic invasive shrubs and American Woodcock (*Scolopax minor*) nest success and habitat selection. *Journal of the Pennsylvania Academy of Science*. 86(1): 1-8.
- Jordan, M. J.**, R. H. Barrett, K. L. Purcell. 2011. Camera trapping estimates of density and survival of fishers *Martes pennanti*. *Wildlife Biology*. 17(3): 266-276.
- Edge, J. L. *, D. E. Beyer Jr., J. L. Belant, **M. J. Jordan**, B. J. Roell. 2011. Livestock and domestic dog predations by wolves in Michigan. *Human-Wildlife Interactions*. 5(1): 66-78.
- Edge, J. L. *, D. E. Beyer Jr., J. L. Belant, **M. J. Jordan**, B. J. Roell. 2011. Adapting a predictive spatial model for wolf *Canis* spp. predation on livestock in the Upper Peninsula, Michigan, USA. *Wildlife Biology*. 17(1): 1-10.
- Jordan, M.**, and D. Paulson. 2009. Wing-spreading behavior in Pacific coast cormorants. *Northwestern Naturalist*. 90: 39-40.
- Jordan, M. J.**, J. M. Higley, S. M. Matthews, O. E. Rhodes, M. K. Schwartz, R. H. Barrett, P. J. Palsbøll. 2007. Development of 22 new microsatellite loci for fishers (*Martes pennanti*) with variability results from across their range. *Molecular Ecology Notes*. 7: 797-801.
- Jordan, M. J.**, K. L. Purcell, R. H. Barrett. 2003. Fisher population monitoring in the southern Sierra Nevada. *Martes Working Group Newsletter*. 11: 6-7.
- Jordan, M. J.**, R. H. Barrett, K. L. Purcell. 2002. Fisher population dynamics in the southern Sierra Nevada. *Martes Working Group Newsletter*. 10: 9.

INVITED PUBLICATIONS

Mathews, S. M., K. M. Moriarty, A. N. Facka, **M. J. Jordan**, and T. K. Fuller. 2014. Review of *Biology and Conservation of Martens, Sables, and Fishers: A New Synthesis*. Journal of Mammalogy. 95: 434-436.

EXTERNAL FUNDING

National Science Foundation (S-STEM program). Enhancing STEM Career Outcomes Through Mentoring, Research, and Focused Career Discernment. \$1.5 million. co-PIs Jennifer Coogan, Dr. McLean Slougher, Dr. Jennifer Sorensen. (2022)

Seattle University Global Grant. Biodiversity research in Guatemala. \$6,300. co-PI Dr. Heidi Liere, Seattle University (2020, postponed due to COVID)

Seattle University Global Grant. Research project development in Guatemala. \$2,100 (2019)

James Lea Foundation, Seattle Urban Carnivore Project. \$26,000. co-PIs Dr. Robert Long and Katie Remine, Woodland Park Zoo (2018)

Peach Foundation, Summer Student Research Position. Intertidal invertebrate biodiversity. Seattle University administrated grant. \$4,400. co-PI Dr. Kristin Hultgren, Seattle University (2017)

Seattle University Summer Faculty Fellowship. Seattle Urban Mesocarnivore Project. \$7,100 (2017)

Murdock College Research Program for Natural Sciences. Habitat use and gene flow of Virginia opossum (*Didelphis virginiana*) and raccoon (*Procyon lotor*) in an urban environment. \$72,000 awarded. (2015)

Murdock College Science Research Program, Summer Student Research Position. Wildlife surveys in Seattle parks. Seattle University administered grant. \$4,300 awarded. (2013, 2014)

Fisher population monitoring study plan, U.S. Forest Service. Lead author of study plan. \$50,000 / year in discretionary funds. (2000-2004)

California Department of Fish and Game Tax Check-off Funds. Camera trapping survey of fishers. \$9,500 awarded. (2003)

Sigma Xi, UC Berkeley Chapter Grant-in-Aid of Research. Fisher hair snare survey design. \$375 awarded. (2003)

Sigma Xi Grant-in Aid of Research. Fisher population monitoring pilot study. \$300 awarded. (2001)

PRESENTATIONS

presenter(s) underlined (* indicates student)

Professional research conferences

- Jordan, M. J.**, K. Remine, R. A. Long, C. J. Schell. 2021. Comparison of camera trap arrays to community reporting to monitor urban carnivores. International Urban Wildlife Conference. Virtual.
- Long, R. A., **M. J. Jordan**, and K. Remine. 2019. The Seattle Urban Carnivore Project: Monitoring the impacts of urbanization on mammalian carnivores through camera trapping and citizen science. The American Fisheries Society and The Wildlife Society Joint Conference. Reno, NV.
- Remine, K., R. Long, and **M. Jordan**. 2019. Wild in Seattle: Using citizen science, high-tech reporting tools, and community engagement to increase human-wildlife coexistence in the greater Seattle area. International Urban Wildlife Conference. Portland, OR.
- Long, R. A., **M. J. Jordan**, and K. Remine. 2019. The Seattle Urban Carnivore Project: Monitoring the impacts of urbanization on mammalian carnivores through camera trapping and citizen science. The American Fisheries Society and The Wildlife Society Joint Conference. Reno, NV.
- Remine, K., R. Long, and **M. Jordan**. 2019. Wild in Seattle: Using citizen science, high-tech reporting tools, and community engagement to increase human-wildlife coexistence in the greater Seattle area. International Urban Wildlife Conference. Portland, OR.
- Smith, M*, P. Wimberger, **M. Jordan**, and K. Fox-Dobbs. 2018. The role of anthropogenic food sources in the diets of urban raccoons (*Procyon lotor*) and Virginia opossums (*Didelphis virginiana*) in the Pacific Northwest, USA. 11th International Conference on the Applications of Stable Isotope Techniques to Ecological Studies. Viña del Mar, Chile.
- Jordan, M. J.** and D. Mims*. 2017. Contrasting activity times and habitat use of Virginia opossums (*Didelphis virginiana*) and raccoons (*Procyon lotor*) in urban natural areas. 102nd Annual Conference of the Ecology Society of America. Portland, OR. Archived electronically: [version 1; not peer reviewed]. F1000Research 2017, 6:1553 (slides) (doi: 10.7490/f1000research.1114753.1).
- Jordan, M. J.**, N. D. Iapoce*, and D. Mims*. 2016. Occupancy and interspecific interactions of Raccoon and Virginia Opossum in Seattle. Idaho and Washington Chapters of the Wildlife Society Annual Meeting. Coeur d'Alene, ID.
- Mims, D.*, N. D. Iapoce*, N. Cruz*, and **M. J. Jordan**. 2016. Niche partitioning between mesocarnivores in an urban setting. Poster. Green-Duwamish Watershed Symposium. Tukwila, WA.
- Jordan, M. J.**, R. H. Barrett, and K. L. Purcell. 2009. Study design for camera trapping fishers. 5th International Martes Symposium. Seattle, WA.
- Jordan, M. J.**, P. J. Palsbøll, R. H. Barrett, and K. L. Purcell. 2007. A comparison of noninvasive monitoring methods for fishers. Western Section of the Wildlife Society Annual Meeting. Monterey, CA.
- Jordan, M. J.**, P. J. Palsbøll, and R. H. Barrett. 2006. New microsatellite markers for population genetic studies of fishers. Poster. Fisher and Marten in California

PRESENTATIONS CONTINUED

presenter(s) underlined (* indicates student)

Invited seminars and workshops

M. J. Jordan, R. A. Long, and K. Remine. 2023. Seattle Urban Carnivore Project: Engaging Residents in Research to Promote Human-Carnivore Coexistence. Green Tukwila Partnership and Washington Department of Fish and Wildlife. Tukwila, WA

Jordan, M. J. 2022. Panelist. Call of the City: Sharing Our City With Coyotes. Seattle, WA.

Remine, K. M. J. Jordan, and R. A. Long. 2020. Wild in Seattle: Using digital monitoring, online reporting tools and community engagement to increase human-wildlife coexistence in the Seattle area. Seattle Audubon Society. Seattle, WA

Jordan, M. J. 2018. Ecological Impacts of Land Use on Urban Mesocarnivores. University of Washington Wildlife Science Seminar. Seattle, WA.

Jordan, M. J. 2017. Panelist. Where the Wild Things Live: Urban Wildlife is in Your Backyard. Seattle, WA.

Jordan, M. J. 2017. Panelist. Seattle University Consortium of Interdisciplinary Scholars: What is the Whole Person? Seattle, WA.

Jordan, M. J. 2017. Wildlife in urban areas. Landscapes on the Edge: Urban Natural Areas Seminar. Seattle, WA.

Jordan, M. J. 2016. Ecological impacts of land use on wildlife in Seattle. University of Puget Sound. Tacoma, WA.

Jordan, M. J. 2016. Wildlife Monitoring in Seattle's Natural Areas. Friends of Green Lake. Seattle, WA.

Jordan, M. J. 2015. Monitoring the impacts of land use on urban wildlife in Seattle. University of Washington, Tacoma.

Jordan, M. J. 2015. Panelist. Seattle Department of Parks & Recreation Natural Areas Mini-Summit. Seattle, WA.

Jordan, M. J. 2014. Wildlife monitoring in Seattle's Natural Areas. Seattle Department of Parks and Recreation. Seattle, WA.

Lobb-Rabe, M.* and **M. J. Jordan**. 2013. Restoration in Seattle parks leads to a slight increase in biodiversity. Poster. Green Seattle Partnership Annual Stakeholders Meeting. Seattle, WA.

Jordan, M. J. 2007. Genetic research on Martes in the Pacific states. Mesocarnivore Genetics Workshop. Arcata, CA.

National undergraduate research conferences

Lobb-Rabe, M.*, S. A. Ingle*, and **M. J. Jordan**. 2015. Population genetic structure of fishers (*Pekania pennanti*) in Vermont. Poster. National Conference on Undergraduate Research. Cheney, WA.

PRESENTATIONS CONTINUED

presenter(s) underlined (* indicates student)

Regional undergraduate research conferences

- Levy, S. H.*, P. W. Reinhardt, and **M. J. Jordan**. 2017. Species interactions in an urban carnivore community. Poster. Murdock College Science Research Conference. Spokane, WA.
- Beste, M.*, K. Hendricks*, **M. Jordan**, and K. Hultgren. 2017. Impacts of urbanization on the intertidal communities of Puget Sound. Poster. Murdock College Science Research Conference. Spokane, WA.
- Davis, L. N.*, S. H. Levy*, and **M. J. Jordan**. 2016. Noninvasive species identification protocol for urban mesocarnivores. Poster. Murdock College Science Research Conference. Spokane, WA.
- Mims, D.*, N. D. Iapoce*, N. Cruz*, and **M. J. Jordan**. 2015. Niche partitioning between mesocarnivores in an urban setting. Poster. Murdock College Science Research Conference. Vancouver, WA.
- Lobb-Rabe, M.*, S. A. Ingle*, and **M. J. Jordan**. 2014. Population genetics of fisher (*Pekania pennanti*) populations in Vermont. Poster. Murdock College Science Research Conference. Vancouver, WA.
- Rich, D.* and **M. J. Jordan**. 2014. Connectivity and detectability of raccoon (*Procyon lotor*) in the Seattle urban matrix. Poster. Murdock College Science Research Conference. Vancouver, WA.
- Lobb-Rabe, M.* and **M. J. Jordan**. 2013. Camera traps document vertebrate biodiversity of Seattle parks in various stages of restoration. Poster. Murdock College Science Research Conference. Vancouver, WA.
- Loffredo, J.* and **M. J. Jordan**. 2012. Deer browse severity in beech bark disease aftermath forests. Poster. Lake Champlain Research Consortium Student Research Conference. Johnson, VT.
- Seguin, B.* and **M. J. Jordan**. 2012. Mercury concentrations found in river otters across the state of Vermont. Poster. Lake Champlain Research Consortium Student Research Conference. Johnson, VT.
- Carvajal, K.* and **M. J. Jordan**. 2011. Exploring the possibilities of canine parvovirus introduction to the fisher (*Martes pennanti*) population in Vermont. Poster. Lake Champlain Research Consortium Student Research Conference. Colchester, VT.
- Ramos, R.* and **M. J. Jordan**. 2011. Survey of mammalian species and occurrences within habitat types in Pond Woods Wildlife Management Area. Poster. Lake Champlain Research Consortium Student Research Conference. Colchester, VT.
- Borrelli, A.*, E. B. Buckley*, R. Ramos*, and **M. J. Jordan**. 2009. Green Mountain College carnivore research projects. Poster. Lake Champlain Research Consortium Student Research Conference. Poultney, VT.
- Buckley, E. B.* and **M. J. Jordan**. 2009. Vermont bats: White Nose Syndrome research. Poster. Lake Champlain Research Consortium Student Research Conference. Poultney, VT.

PRESENTATIONS CONTINUED

presenter(s) underlined (* indicates student)

Seattle University research presentations

- Cruz, Nicolás and **M. J. Jordan**. 2018. Co-Colonizing: The Ecological Impacts of Settler Colonialism in the American Supercontinent. SUURA Undergraduate Research Symposium. Seattle, WA.
- Davis, L., P. Reinhardt and **M. J. Jordan**. 2018. Non-invasive species identification of urban mesocarnivores. SUURA Undergraduate Research Symposium. Seattle, WA.
- Levy, S. and **M. J. Jordan**. 2018. Population genetics of fishers in Vermont. SUURA Undergraduate Research Symposium. Seattle, WA.
- Jordan, M. J.** 2017. Ecological impacts of land use on wildlife in Seattle. Seattle University Biology Departmental Seminar. Seattle, WA.
- Mims, D.* and **M. J. Jordan**. 2016. Temporal niche partitioning occurs between the Virginia opossum (*Didelphis virginiana*) and Raccoon (*Procyon lotor*) in Seattle's green spaces. SUURA Undergraduate Research Symposium. Seattle, WA.
- Ingle, S.* and **M. J. Jordan**. 2015. Hair snare optimization and SNP library discovery of *Procyon lotor* and *Didelphis virginiana*. SUURA Undergraduate Research Symposium. Seattle, WA.
- Lobb-Rabe, M.*, Ingle, S.* and **M. J. Jordan**. 2015. Population genetic structure of fisher (*Pekania pennanti*) in Vermont. SUURA Undergraduate Research Symposium. Seattle, WA.
- McDowell, T.* and **M. J. Jordan**. 2014. Evaluation of a predictive model for gray wolf rendezvous sites in western Montana. SUURA Undergraduate Research Symposium. Seattle, WA.
- Lobb-Rabe, M.*, Ingle, S.* and **M. J. Jordan**. 2015. Population genetic structure of fisher (*Pekania pennanti*) in Vermont. SUURA Undergraduate Research Symposium. Seattle, WA.
- McDowell, T.* and **M. J. Jordan**. 2014. Evaluation of a predictive model for gray wolf rendezvous sites in western Montana. SUURA Undergraduate Research Symposium. Seattle, WA.

MEDIA

Instagram: @suwildlife

Crosscut. January 18, 2022. Unconfirmed Seattle cougar sighting is no reason for alarm, experts say.

Crosscut. January 29, 2021. Podcast: Tracking the wildlife in Washington cities and suburbs.

Wild Hope. 2020 (vol. 9). Urban Dwellers.

Crosscut. May 18, 2020. You could be the citizen scientist the world needs right now.

Stateline. March 9, 2020. Deer, Bear and Everywhere: Animals Move Into the City.

KING 5. April 4, 2019. Wildlife cameras help track urban carnivores in the Pacific Northwest.

KCTS / Earthfix. Dec. 6, 2017. Seattle is Crawling with Carnivores. Also published by Oregon Public Broadcasting, Crosscut and the Seattle Post-Intelligencer. Re-broadcast on the PBS NewsHour on Jan. 10, 2018.

Green Seattle Partnership Blog. Sept. 7, 2017. Seattle U Lab Studies Wildlife Responses to Urban Land Use.

HONORS AND AWARDS

ESPM Schwabacher Memorial Fellowship. U.C. Berkeley. (2006)

Departmental Fellowship - U.C. Berkeley ESPM. (1999, 2005)

Outstanding Graduate Student Instructor for 2006-2007 school year, U.C. Berkeley (2008)

2nd place, Student Paper Competition, Western Section of the Wildlife Society Annual Conference (2007)

1st place, Student Paper Competition, Western Section of the Wildlife Society Annual Conference (2006)

EXTERNAL PROFESSIONAL SERVICE

Reviewer: *Ecosphere*; *PLOS One*; *Southeastern Naturalist*; *Biotechnology, Agronomy, Society and Environment*; *Wildlife Research*; *Scientific Reports*; *Northwestern Naturalist*

Urban Wildlife Information Network, Environmental Justice Committee	2020-
Wildlife Camera Network Northwest	2015-
Franklin High School Career Day	2015, 2016
Eco League Faculty Steering Committee, Chair	2009-2012
Vermont Institute of Natural Sciences, Trustee	2009-2012
Student Affairs Committee, Society for Conservation Biology	2005-2010
Forest Carnivore Conservation Assessment Working Group, Davis, CA	2002-2007
Student Affairs Committee, The Wildlife Society	2001-2004

SEATTLE UNIVERSITY SERVICE

University

Provost Fellow	2022-
Phi Beta Kappa application committee	2021-2023
Sullivan Scholarship Committee	2020-2022
Central America Advisory Team	2019-
Faculty Search Committee	2018
Faculty Program Assessment Review Team	2016
University Core Writing Assessment Team	2015
Center for Environmental Justice and Sustainability, web interview	2015
GIS Planning Committee	2015

College of Science and Engineering

HHMI Inclusive Excellence Grant Team	2016
Fellowship Review Committee (Goldwater Scholarship)	2015
Curriculum Committee	2013-2016

Department of Biology

Department Personnel Committee	2017-
Director, Marine and Conservation Biology Program	2017
Faculty Search Committees	2012, 2014
Marine and Conservation Biology major curriculum revisions	2013
Academic advisor (15-20 students / year)	2013-

PRIOR INSTITUTIONAL SERVICE

Green Mountain College

Coordinator, Dimensions of Nature (History of science core course)	2011-2012
Enrollment Management Committee	2011-2012
Thesis Coordinator, Masters of Science in Environmental Studies Program	2009-2012
Animal Use Committee	2009-2012
IT Users' Group	2008-2012
Academic Affairs/Student Life Committee of the Board of Trustees	2010-2012
Speakers Bureau, Chair	2008-2010
Academic advisor (20 students / year)	2008-2012

U.C. Berkeley

U.C. Berkeley Chapter of the Society for Conservation Biology, Chair	2000-2001
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PROFESSIONAL MEMBERSHIP

Society for Conservation Biology (Urban Ecology and Conservation Genetics working groups)
The Wildlife Society (Washington Chapter and Urban Wildlife working group)
Ecological Society of America