

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, Fundamentals of Ecology, Conservation Biology, Biology Research: Development and Practice, 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)

### University of California, Berkeley

Introduction to Biology, Introduction to Biology - Field Section, American Wildlife

## PEER REVIEWED PUBLICATIONS

(\* indicates student)

- Mims, D. M.\* and **M. J. Jordan**. *in review*. Contrasting activity times from camera traps between urban Virginia opossums (*Didelphis virginiana*) and raccoons (*Procyon lotor*).
- Jordan, M. J.** and Lobb-Rabe, M.\* 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.

## RESEARCH FUNDING

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

## RESEARCH FUNDING CONTINUED

### **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.** 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.

**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

### **Invited seminars and workshops**

**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.

**PRESENTATIONS CONTINUED**

presenter(s) underlined (\* indicates student)

**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.

**Regional undergraduate research conferences**

Mims, D.\*, N. D. Iapoc\*, 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.

## PRESENTATIONS CONTINUED

presenter(s) underlined (\* indicates student)

- 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.

## Seattle University research presentations

- 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.

## MEDIA

Instagram: @suwildlife

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

## HONORS AND AWARDS

- Summer Faculty Fellowship.** Seattle University. (2015)  
**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 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

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
<b>College of Science and Engineering</b>	
HHMI Inclusive Excellence Grant Team	2016
Fellowship Review Committee (Goldwater Scholarship)	2015
Curriculum Committee	2013-2016

## SEATTLE UNIVERSITY SERVICE CONTINUED

### 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  
Ecological Society of America  
Sigma Xi  
Martes Working Group