

STEVEN J. DUNDAS

CURRICULUM VITAE

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APPOINTMENT

Assistant Professor – Oregon State University (OSU), 2015 – present
Department of Applied Economics (AEC)
Coastal Oregon Marine Experiment Station (COMES)

EDUCATION

Ph.D. Economics – North Carolina State University, 2015
Dissertation: *Quantifying the Welfare Effects of Adaptation to Climate Change & Biodiversity Loss in Coastal Environments*
Committee: Roger H. von Haefen (chair), Laura O. Taylor, Martin D. Smith, & Walter N. Thurman

M.S. Agricultural and Resource Economics – University of Delaware, 2011
Thesis: *Public Goods and Spatial Location: Stated Preference Prioritization with Spatial Interdependencies*
Committee: Joshua M. Duke (chair), Kent D. Messer, Robert J. Johnston, & Titus O. Awokuse

B.S. Natural Resource Management *cum laude* – University of Delaware, 2003
Minors: *Resource Economics, Biology, Art*

AWARDS & FELLOWSHIPS

Distinguished New Professor of the Year, College of Agricultural Sciences (CAS), OSU, 2016
Gerald A. Carlson Outstanding Ph.D. Dissertation Award, North Carolina State University (NCSU), 2016
Pre-Doctoral Fellowship in Environmental & Resource Economics, Arizona State University (ASU), 2014
Jenkins Fellowship, NCSU, 2014-2015
Outstanding Master's Thesis Award, Northeastern Agric. & Resource Economics Assoc. (NAREA), 2012
University Fellowship, NCSU, 2011-2012
Graduate Student Travel Grant, NAREA, 2010 & 2011
Outstanding Senior Award in Natural Resource Management, University of Delaware, 2003

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

Dundas, S. J., R. H. von Haefen, and C. Mansfield. 2018. Recreation Costs of Endangered Species Protection: Evidence from Cape Hatteras National Seashore, *Marine Resource Economics* 33(1): 1-25.

Dundas, S. J. 2017. Benefits and Ancillary Costs of Natural Infrastructure: Evidence from the New Jersey Coast. *Journal of Environmental Economics and Management* 85: 62-80.

Duke, J. M., S. J. Dundas, R. J. Johnston, and K. D. Messer. 2015. The Effect of Spatial Interdependencies on Prioritization and Payments for Environmental Services. *Land Use Policy*, 48: 341-350.

Duke, J. M., S. J. Dundas, R. J. Johnston, and K. D. Messer. 2014. Prioritizing Payment for Environmental Services: A Land Preservation Application Using Nonmarket Benefits and Costs for Optimal Selection. *Ecological Economics*, 105: 319-329.

Duke, J. M., S. J. Dundas, and K. D. Messer. 2013. Cost-effective Conservation Planning: Lessons from Economics. *Journal of Environmental Management*, 125: 126-133.

Fooks, J. R., S. J. Dundas, and T. O. Awokuse. 2013. Are there Efficiency Gains from the Removal of Natural Resource Export Restrictions? Evidence from British Columbia. *The World Economy* 36: 1098-1114.

EXTENSION PUBLICATIONS

Dundas, S.J. and R.H. von Haefen. 2018. Conflict on Public Lands: The Case of ORV Restrictions in Cape Hatteras National Seashore. *NC State Economist*, Summer 2018. PDF available [here](#).

OTHER PUBLICATIONS

Dundas, S. J. 2012. Public Goods and Spatial Location: Stated Preference Prioritization with Spatial Interdependencies. *Agricultural and Resource Economics Review*, 41(3): 391. (abstract)

Dundas, S. J., J. R. Fooks, and T. O. Awokuse. 2010. Welfare Gains from the Removal of Natural Resource Export Restrictions: The Case of British Columbia. *Agricultural and Resource Economics Review*, 39(3): 586. (abstract)

Dundas, S. J. November 2008. Alternative Thinking: The Explosive Development of Renewable Energy Technologies. Photo Essay in *Going Green*. NJBIZ, New Brunswick, NJ: pp. 28-33.

WORKING PAPERS (*indicates graduate student co-author)

Dundas, S.J. and R.H von Haefen. The Effects of Weather on Recreational Fishing Demand and Adaptation: Implications for a Changing Climate. Revisions requested at *Journal of the Association of Environmental and Resource Economists*.

Dundas, S.J. and D.J. Lewis. Estimating Option Values and Spillover Damages for Coastal Protection Revisions requested at *Journal of the Association of Environmental and Resource Economists*.

Lewis, D.J., S.J. Dundas, D. Kling, D. Lew, and S. Hacker. Public preferences for natural capital investments that help threatened species: The case of Oregon Coast Coho salmon. *Under review*

Parton, L. and S.J. Dundas. Climate Adaptation Policy Uncertainty and Temporal Leakage of Coastal Development Decisions

Beasley, W. J.* and S.J. Dundas. Hold the Line: Modeling private coastal adaptation through shoreline armoring decisions

Wu, J., Dundas, S.J., and C. Wu. Interaction Effects of Environmental Regulation and Agglomeration Economies

WORK IN PROGRESS

Life Safety and Natural Infrastructure: An Economic Perspective
(with W.J. Beasley*, D. Kling, D. Cox, H. Wang, and A. Mostafizi*)

GRANTS (\$2.47 million total)

Assessing the Benefits of Natural Infrastructure for Shoreline Stabilization: Ecosystem Service Valuation for Decision-making in Coastal Communities. NOAA National Centers for Coastal Ocean Science (NCCOS), 2015-2019. \$1,399,960.

Lead PI with S.D. Hacker, D.J. Lewis, D.M. Kling, P. Ruggiero, C.E. Parrish, & D.T. Cox.

Envisioning a Resilient Oregon Coast: Co-developing Alternative Futures for Adaptation Planning and Decision-Making. Oregon Sea Grant LEAF, 2018-2022. \$873,628

co-PI with P. Ruggiero (lead PI), J. Bolte, D.T. Cox, & J. Tilt.

Engineering Research Center for Adaptive and Resilient Coastal Infrastructure (CARCI). National Science Foundation, Engineering Research Center Planning Grant. 2018-2019. \$100,000.

co-I with D.T. Cox (lead PI), (PIs) S.D. Brody, R.R. Lopez, J.E. Padgett, P. Ruggiero, (co-Is) A. Barbosa, P. Bedient, E. Cotilla-Sanchez, L. Duenas-Osorio, P. Lynett, I. Pagan-Trinidad, and C. Parrish.

The Value of Oregon's Deep Sea Habitat to Oregonians. Oregon Sea Grant SEED, 2017. \$47,323.

co-PI with A. Thurber (lead PI).

Envisioning a Resilient Oregon Coast: Co-developing Alternative Futures for Adaptation Planning and Decision-Making. Oregon Sea Grant SEED, 2017. \$49,822.

co-PI with P. Ruggiero (lead PI), J. Bolte, D.T. Cox, & J. Tilt.

INVITED SEMINARS & CONFERENCE PRESENTATIONS

2018: W-4133 Annual Meeting (*Austin, TX*)

Western Economic Association International (*Vancouver, BC*)

World Congress of Environmental and Resource Economists (*Gothenburg, Sweden*)

OSU (*Applied Economics Working Group, Corvallis, OR*)

Boise State University (*Boise, ID*)

2017: W-3133 Annual Meeting (*Carlsbad, CA*)

Assoc. of Environmental & Resource Economists (AERE) Summer Conference (*Pittsburgh, PA*)

Ecological Society of America Annual Meeting (*Portland, OR*)

Oregon Resource and Environmental Economics Workshop (*Salem, OR*)

OSU (*Applied Economics Working Group, Corvallis, OR*)

2016: W-3133 Annual Meeting (*Portland, OR*)

5th National Forum on Socioeconomic Research in Coastal Systems (*New Orleans, LA*)

AERE Summer Conference (*Breckenridge, CO*)

Agricultural & Applied Economics Assoc. (AAEA) Annual Meeting (*AERE Sessions, Boston, MA*)

National Oceanic & Atmospheric Administration (*OneNOAA Science Seminar, Silver Spring, MD*)

OSU (*Applied Economics Working Group, Corvallis, OR*)

2015: American Economic Assoc. (AEA) Annual Meeting (*AERE Sessions, Boston, MA*)

Louisiana State University (*Dept. of Economics, Baton Rouge, LA*)

East Carolina University (*Economics/ICSP, Greenville, NC*)

OSU (*Dept. of Applied Economics, Corvallis, OR*)

Coastal Oregon Marine Experiment Station (*Newport, OR*)

The College of New Jersey (*Dept. of Economics, Ewing, NJ*)

University of Delaware (*School of Marine Science and Policy, Newark, DE*)

2010 - 2014: NBER Summer Institute (*Environmental and Energy Economics, Boston, MA; 2014*)

ASU (*Center for Environmental Economics & Sustainability Policy, Tempe, AZ; 2014*)

Camp Resources (*Wrightsville Beach, NC; 2013, 2014*)

NCSU (*Center for Environmental & Resource Economic Policy; 2011, 2013*)

AAEA and NAREA Joint Annual Meeting (*Pittsburgh, PA; 2011*)

Annual Meeting of the Society for Benefit-Cost Analysis (*Washington, DC; 2011*)

NAREA Annual Meeting (*Atlantic City, NJ; 2010*)

TEACHING

COURSE (Terms Taught, Total # of Students)	UNIVERSITY	LEVEL	MEDIAN RATING
Empirical Environmental and Resource Economics (1, 9)	OSU	Graduate (Ph.D.)	6.0 / 6.0
Environmental and Resource Economics (3, 26)	OSU	Graduate (M)	5.9 / 6.0
Environmental Economics & Policy (3, 230)	OSU	Undergraduate	5.3 / 6.0
Special Projects: 2 nd Year Paper (3, 4)	OSU	Graduate (Ph.D.)	n/a
Resource and Environmental Economics (2, 108)	NCSU	Undergraduate	4.6 / 5.0
Environmental Economics (1, 25)	Meredith Coll.	Undergraduate	3.7 / 4.0

GUEST LECTURES (OSU, unless otherwise noted)

“Economics and Climate Change” – SUS 103: Introduction to Climate Change – Fall 2017

“Economics of Marine Reserves” – AGRI 438: Exploring World Agriculture – Winter 2018

STUDENT ADVISING (OSU, unless otherwise noted)

CHAIR

William J. Beasley	Ph.D. Applied Economics	Exp. 2019
Amila Hadziomerspahic	Ph.D. Applied Economics	Exp. 2022
Ashley Lowe	Ph.D. Applied Economics	Exp. 2022
Mark St. John	M.S. Applied Economics	Exp. 2019

COMMITTEE MEMBER

Cassie Finer	Ph.D. Applied Economics	Exp. 2019
Alexander Jensen	Ph.D. Fisheries Science	Exp. 2022
Tu Nguyen	Ph.D. Applied Economics	Exp. 2020
Jian Shi	Ph.D. Applied Economics	Exp. 2020
Nadeeka Weerasekara	Ph.D. Applied Economics	Exp. 2021
Chris Mihiar	Ph.D. Applied Economics	2018
Grant Zimmerman	M.S. Applied Economics	Exp. 2018
Kerrick Robinson	M.S. Fisheries Science	2018
Elaine Jordan	M.S. Applied Economics	2018
Matthew Lundgren	M.S. Applied Economics	2017
Katya Jay*	Ph.D. Integrative Biology	Exp. 2019
Diego Zárrate-Charry*	Ph.D. Forest Ecosystems & Society	2018
John Panches*	Ph.D. Forest Ecosystems & Society	2017
Laura Barreiro-Fernandez*	M.S. Civil & Construction Engineering	Exp. 2018
William Fairchild*	M.S. Ocean, Earth, & Atmospheric Sciences	Exp. 2019
Mackenzie Baxter*	M.S. Fisheries Science	2018
Reva Gillman*	M.S. Marine Resource Management	2018
Eric Wade*	M.S. Fisheries Science	2018
Janan Evans-Wilent*	M.S. Marine Resource Management	2017

UNDERGRADUATE THESIS

Joshua Fuller	B.S. Economics and Political Science	Exp. 2019
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UNDERGRADUATE RESEARCH

Melissa Carson	Independent Study (Research-focus)	2019
Jack Hobbs	Experiential Learning Research Mentor	2018-19
Lauryn Moore	Experiential Learning Research Mentor	2018-19
Eric Didion	Internship Mentor (U. of Florida)	2016

* Committee member as Graduate Council Representative

SERVICE & OUTREACH

PROFESSION

Reviewer

Journals (28 total reviews)

Agricultural and Resource Economics Review (1)

American Journal of Agricultural Economics (2)

Canadian Journal of Agricultural Economics (1)

Ecological Economics (2)

Economic Inquiry (1)

Environmental Conservation (1)

Environmental and Resource Economics (3)

Global Environmental Change (1)

Land Economics (1)

Land Use Policy (1)
Journal of the Association of Environmental and Resource Economists (1)
Journal of Environmental Economics and Management (6)
Journal of Environmental Management (1)
Marine Resource Economics (3)
Nature Communications (1)
Nature Sustainability (1)
Resource and Energy Economics (1)

Book Chapters

Elsevier Science – *Coastal Wetlands: An Integrated Ecosystem Approach, 2nd Edition*

Grant/Fellowship Reviewer

Oregon Sea Grant, *Natural Resource Policy Fellowship* (2016)

Professional Meetings

AAEA Annual Meeting – Topic Leader in “Environmental and Nonmarket Valuation” (2019-2020)

AAEA Annual Meeting – Reviewer of Abstract Submissions (Boston 2016, Chicago 2017, Washington D.C. 2018)

OREGON STATE UNIVERSITY

University

OSU Faculty Student Mentor Program (2018 – present)
Marine Studies Initiative (MSI) Research Development Committee (2016-17)
MSI Planning Retreat (April 2017)
MSI Academic Development Roundtable (March 2017)
OSU 2030 Vision Focus Group (March 2017)

College of Agricultural Sciences

CAS Graduate Programs Advisory Committee (2016 – present)

Department of Applied Economics

AEC Working Group workshop coordinator (2018 – present)
AEC Graduate Committee (2016 – present)
Search Committee, Executive Director of the International Institute of Fisheries Economics & Trade and the North American Association of Fisheries Economists (2018-19)
Invited Speaker “Research in Environmental and Resource Economics” – Law, Economics, Environment, Agriculture, and Policy (LEAP) Club, OSU (April 2018)

OUTREACH & PUBLIC SERVICE

Advisory Roles

- Science Advisory Council, Cooperative Institute for Marine Resource Studies (2019 – present)
- Social Science Advisory Committee, Puget Sound Partnership (2017 – present)
- Focus Group Advisor for Statewide Planning Goal 18: Beaches and Dunes, Oregon Department of Land Conservation and Development (2019 – present)
- Invited Discussant, *Best Practices in Ecosystem Services Valuation*, Puget Sound Partnership (August 31, 2017)
- Invited Participant, Oregon Ocean Science Trust Summit, Newport, OR (May 11-12, 2016)

Invited/Public Lectures

- Public lecture, Oregon Coastal Management Program, Oregon Shores Conservation Coalition, & Oregon King Tide Photo Project (Newport, OR – December 14, 2018)
- Organizer and Speaker, NCCOS Natural Infrastructure Project Advisory Board Meeting, Corvallis, OR (March 30, 2016); Newport, OR (April 14, 2017, April 12-13, 2018)
- Invited Speaker, COMES Advisory Board Meeting, Astoria, OR (June 29, 2017)
- Invited Panelist, *Goal18 Solutions: Does It Provide The Flexibility to Deal with Climate Change?* 5th Annual Oregon Coast Economic Summit, North Bend, OR (August 9, 2016)

PROFESSIONAL DEVELOPMENT

- COMPASS Science Communication Workshop: Navigating West Coast Ocean Change – Pacific Grove, CA (January 16-18, 2019)
- People & Nature (Environmental Social Science) Peer Group, OSU (2015 – 2017)
- Certificate of Accomplishment in Teaching – NCSU Graduate School (2013 – 2015)
- Graduate Teaching Assistant Training Program – Economics Graduate Program, NCSU (2012)
- Professional Development Award – University of Delaware (2010)
- Volunteer – PRETOMA sea turtle conservation project, *Costa Rica* (2002)
- U. of Delaware Study Abroad Program – Studied behavior of African wildlife under Richard Despard Estes, *Tanzania* (2001).

PROFESSIONAL ASSOCIATION MEMBERSHIPS

AERE, AAEA, AEA

OTHER PROFESSIONAL EXPERIENCE

GRADUATE RESEARCH ASSISTANT

- NCSU, 2012 – 2013, for Roger H. von Haefen
- University of Delaware, 2009 – 2011, for Joshua M. Duke

GRADUATE TEACHING ASSISTANT

- Resource & Environmental Economics (*ARE 336*) – NCSU
- Introduction to Agricultural & Resource Economics (*ARE 201*) – NCSU

Environmental Law & Economic Policy (*ARE 309: including online sections*) – NCSU
Agricultural Law (*ARE 306*) – NCSU
Environmental Economics (*APEC/ECON 343*) – University of Delaware

PHOTOJOURNALIST

Journal Publications Inc. – New Brunswick, NJ, 2006-2009

SENIOR ENVIRONMENTAL SCIENTIST

JMC Environmental Consultants – Bay Head, NJ, 2006

ENVIRONMENTAL SCIENTIST

Brennan Environmental Inc. – Summit, NJ, 2004-2006

GIS RESEARCH ASSOCIATE

Environmental Protection Agency, Emergency Response & Remedial Division – New York City, 2003