

Curriculum Vita

Mary V. Santelmann
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EDUCATION

1988 PhD in Ecology University of Minnesota, Minneapolis, MN

Dissertation: The Ecology and Distribution of *Carex exilis*: An Experimental Approach

Major Advisor: Dr. Eville Gorham, Regent's Professor and member, National Academy of Sciences

1980 M.S. in Biology University of Michigan, Ann Arbor, MI

1978 B.S. in Botany University of Minnesota, Minneapolis, MN

PROFESSIONAL EXPERIENCE

2019-present Professor, College of Earth, Ocean and Atmospheric Sciences, Oregon State University

2010-2019 Associate Professor, Senior Research, College of Earth, Ocean and Atmospheric Sciences, Oregon State University

2005-present Director, Water Resources Graduate Program

1996-2010 Assistant Professor, Senior Research; Department of Geosciences, Oregon State University

1994-1996 Research associate; Department of Geosciences, Oregon State University

1992-1996 Instructor; GEO324 (Biogeography), Department of Geosciences, Oregon State University

1990-1991 Environmental consultant; atmospheric deposition research

1984-1987 Teaching Assistant, University of Minnesota, Department of Ecology and Behavioral Biology

1980-1984 Research Assistant, University of Minnesota, Department of Ecology and Behavioral Biology

1980 Seasonal Interpretive Ranger, US NPS Grand Canyon NP, North Rim Unit

1979 Teaching Assistant, University of Michigan, Rackham School of Graduate Studies, Department of Biological Sciences

1979 Seasonal Interpretive Ranger, US NPS Grand Canyon NP, South Rim Unit

1978 Tree Inspector, Dutch elm disease, City of St. Paul, MN, Forestry Dept.

Courses taught at OSU: Biogeography (GEO 324), Plant Ecology (BOT 341), Plant Autecology (BOT 441/541), Graduate Seminar (GEO 507), Ecological Biogeography (GEO 539), Geography of Resource Use (GEO 420/520), GEO 505 Reading and Conference, WRP 524 Sociotechnical Aspects of Water Resources, WRP 505/507 Seminar and Journal Club, WRS 505/507 Seminar and Journal Club, WRE 505/507 Seminar and Journal Club, WRP 599 Multi-scale Hydrologic Modeling, WRP 523 Environmental Water Transactions (team-taught)

CURRENT RESEARCH INTERESTS

- 1) Ecosystem response to human land use and management practices; use of alternative future scenarios combined with diverse evaluative approaches
- 2) Environmental and anthropogenic influences on species composition and species richness in forest, agricultural, urban and wetland ecosystems, including effects of landscape composition and pattern on native biodiversity
- 3) Ecology and biogeochemistry of wetlands and riparian systems

AWARDS & FELLOWSHIPS

- 2004-2006 Award for service and leadership as Treasurer for the US Regional Chapter of the International Association for Landscape Ecology
- 2002-2004 Award for service as Treasurer for the US Regional Chapter of the International Association for Landscape Ecology
- 1985-1986 Dissertation Fellowship, University of Minnesota
- 1984-1986 Alexander and Lydia Anderson Award, University of Minnesota
- 1984-1985 Carolyn Crosby Award, University of Minnesota
- 1984-1985 Nature Conservancy Research Grant
- 1984-1986 Dayton-Wilkie Award, University of Minnesota
- 1979-1980 Rackham Fellowship, University of Michigan, Ann Arbor

GRANTS AWARDED

Duration	Title	Funding Source	Amount
2021-2024	Developing and Assessing a Stream Flow Monitoring Program in a Remote Alaskan Watershed	USFS Chugach Forest	\$60,000
2019-2023	Joint Venture: Climate Change Impacts on Coastal Riverscapes and amendments	USFS PNW Research Laboratory	\$40,000
2020-2022	NW-CASC Scholarship: Water source as an indicator of potential streamflow response to climate change in rain-dominated, storage-limited watersheds	NSF and Northwest Climate Adaptation Science Center	\$42,036
2015-2020	Urban Water Innovation Network: Transitioning To Sustainable Water Systems	NSF	\$1,099,948
2016-2018	Monitoring abundance of <i>Darlingtonia californica</i> at Darlingtonia State Park	Oregon State Parks and Recreation	\$15,000
2015	Let's Talk About Water Event	NSF-CUAHSI	\$3000
2015-2019	Joint Venture: Climate Change Impacts on Coastal Riverscapes and amendments	USFS	\$76,000
2013-2015	Joint Venture-Climate Change Effects on Coastal Draining Streams	USFS	\$26,500
2013-2016	Developing Alternatives to Plastic Mulch Phase II	USEPA	\$90000
2012-2017	Meeting National Needs for Hydrologists and Water Resource Engineers	NSF STEM Scholarship	\$413,995

2012-2013	Developing Alternatives to Plastic Mulch Phase I	USEPA	\$15000
2011-2015	JV Amendment I: Climate Change Effects on Coastal Draining Streams	USFS	\$46,500
2010-2012	Portland Vancouver Ultra-Ex****	NSF	\$200,000
2010-2015	Water Sustainability and Climate****	NSF	\$4,250,000 (\$135,000)
2010-2015	Joint Venture: Climate Change Effects on Coastal Draining Streams in Oregon	USFS	\$19,000
2009-2011	Vegetation and Soil Processes in Wet Prairie Wetlands	USGS	\$9,955
2006-2007	Collaborative learning towards sustainable agricultural landscapes in Muddy Creek Watershed, Oregon.	USGS and OSU Institute for Water and Watersheds	\$45,000
2003-2005	Attitudes toward water resource policy in Portland, OR.*	NSF Geography and Regional Science	\$8944
2001-2003	Sustaining Multiple Functions for Urban Wetlands DEB 0119783	NSF Biocomplexity in the Environment:	\$64,990
1998-2001	Developing Methods and Tools for Watershed Restoration **	NSF/EPA STAR Water/ Watersheds	\$809,993
1996-2000	Modeling Effects of Alternative Landscape Design and Management on Water Quality and Biodiversity in Midwest Agricultural Watersheds.	NSF/EPA STAR Water/ Watersheds Program	\$1,228,520
1997-1998	Biogeography, Biodiversity and Policy ***	Grant PNW 97-5096 from the US Forest Service	\$102,590
I have been PI or co-PI on grants that have brought in \$8.5 million dollars in external funds to OSU; of this total, over \$3 million has been under my personal direction as Principal Investigator or co-Principal Investigator. My grants have provided over \$800,000 in graduate student support, in addition to generating indirect costs.			

* Served as Principal Investigator on this grant as advisor to co-PI doctoral student Kelli Larson

**Served as Co-PI with John Bolte, Dept. of Biol. and Ecol. Engineering

*** Served as Co-PI with Gordon Matzke and A. Ross Keister

**** Senior collaborator on large interdisciplinary research team; own budget \$135,000

TEACHING, ADVISING, AND OTHER ASSIGNMENTS
Instruction Summary

Course	Title	Term	Period Taught (Academic Year)	Credits	Average Enrollment
GEO 324	Biogeography; Geography of Life	Sp	1992-2005; 2009-2020	4	28
GEO 420/520	Geography of Resource Use	F	2001-2004	4	30
GEO 599	Ecological Biogeography	F	2001, 2003	4	9
GEO 507	Seminar: Biodiversity	W	1995, 1996	1	8
BOT 341	Plant Ecology	Sp	2004, 2005	3	20
BOT 441/541	Plant Autecology	F	2001	4	14
WRP 524	Sociotechnical Aspects of Water Resources	F	2008-2020	3	25
WRP 507	Seminar: Water Resources Policy	F	2008-2020	1	30
WRP 505	Reading and Conf: Water Resources Policy	F	2008-2020	1	7
WRS 507	Seminar: Water Resources Science	Sp	2006-2007, 2008-2020	1	35
WRS 505	Reading and Conf: Water Res. Science	Sp	2008-2020	1	6
WRE 507	Seminar: Water Res. Engineering	W	2011-2021	1	12
WRE 505	Reading and Conf: Water Resources Engineering	W	2011-2021	1	6
GEO 505	Reading and Conf. Landscape Ecology	Sp	2007	1	1
WRS 505	Reading and Conf.: Special Topics	Sp, Su	2014; 2017	1	1
WRP 517	Writing in WR	Su	2016	4	3
WRE 599	**Multi-Scale Hydrol. Modeling	Sp	2013	3	18
WRP 599	*** Environmental Water Transactions	Su	2012	3	8

****Team taught with Kellie Vache (WRE 599) and ***Bruce Aylward (WRP 523)**

Student Evaluation of Teaching from 2012 to Present

Quantitative Summary of eSET responses Rating Scale 1-6 (1=VP, 2= Poor, 3=Fair, 4=Good, 5=VG, 6=Excellent)

GEO 324 GEOGRAPHY OF LIFE (now GEOG 324 Ecological Biogeography) Type: Elective

Year	The course as a whole	The instructor's contribution to the course	Clarity of course objectives or outcomes was	Clarity of student responsibilities and requirements	Course organization	Availability of extra help when needed	Instructor's use of various instructional techniques to accommodate differences in learning styles among students	Instructor's interest in my learning	Instructor's ability to stimulate my thinking more deeply about the subject	Instructor's timely feedback to tests and other work	Instructor's ability to develop a welcoming classroom environment for all participants	Instructor's evaluation of student performance in accordance with course objectives
2012	4.3	4.7	3.9	3.9	3.9	4.7	4.7	5.1	4.5	4.9	5.1	4.6
2013	5.1	5.4	5.1	5.1	4.9	5.3	5.0	5.6	5.6	5.3	5.6	5.1
2014	5.2	5.6	5.2	5.2	5.1	5.3	5.3	5.3	5.3	5.1	5.2	5.1
2016	5.3	5.2	5.0	4.8	5.0	5.5	4.8	5.7	5.0	4.7	5.0	4.8
AVG	5.0	5.2	4.8	4.8	4.7	5.2	5.0	5.4	5.1	5.0	5.2	4.9
MIN	4.3	4.7	3.9	3.9	3.9	4.7	4.7	5.1	4.5	4.7	5.0	4.6
MAX	5.3	5.6	5.2	5.2	5.1	5.5	5.3	5.7	5.6	5.3	5.6	5.1

Average Enrollment 2012-2016: n = 17 students

Average number of responses 2012-2016: n = 12 responses (67%)

WRP 524 Sociotechnical Aspects of Water Resources Type: Required

Year	The course as a whole	The instructor's contribution to the course	Clarity of course objectives or outcomes was	Clarity of student responsibilities and requirements	Course organization	Availability of extra help when needed	Instructor's use of various instructional techniques to accommodate differences in learning styles among students	Instructor's interest in my learning	Instructor's ability to stimulate my thinking more deeply about the subject	Instructor's timely feedback to tests and other work	Instructor's ability to develop a welcoming classroom environment for all participants	Instructor's evaluation of student performance in accordance with course objectives
2012	5.0	5.3	4.5	3.9	4.1	4.3	5.1	5.5	5.5	4.6	5.5	4.8
2013	4.5	5.0	4.8	4.8	4.1	4.4	5.1	5.4	5.2	4.8	5.6	5.1
2014	4.9	5.2	4.1	4.2	4.5	4.2	4.6	5.7	5.5	5.0	4.6	4.6
2015	5.2	5.3	5.1	4.9	4.6	5.0	5.2	5.5	5.2	5.2	5.4	5.1
2016	5.2	5.5	4.8	4.8	4.6	5.5	5.5	5.6	5.6	5.3	5.7	5.5
2017	4.8	5.0	4.3	3.8	3.7	4.4	5.1	5.4	5.2	4.9	5.3	5.3
2018	4.4	4.7	4.9	4.3	4.6	5.1	5.0	5.2	4.5	4.6	4.9	5.0
AVG	4.9	5.1	4.7	4.4	4.3	4.7	5.1	5.5	5.2	4.9	5.3	5.0
MIN	4.4	4.7	4.1	3.8	3.7	4.2	4.6	5.2	4.5	4.6	4.6	4.6
MAX	5.2	5.5	5.1	4.9	4.6	5.5	5.5	5.7	5.6	5.3	5.7	5.5

Average Enrollment AY 2012- AY 2018 n = 25

Average number of responses n = 17 (66%)

I do not include eSET data for Seminar (WRE/WRP/WRS 507) and Journal Club (WRE/WRP/WRS 505) courses, since the seminar content is provided by the speakers and R & C articles are selected by those speakers to complement their seminars.

Other Teaching Activities: Curriculum Development

1992 Revamped GEO 324 “Biogeography” with new lectures and text.

2000 Revamped GEO 420/520 “Geography of Resource Use” with new lectures, text, and structure

2002 Developed and taught as a graduate seminar course: “Place as an Integrator of Interdisciplinary Research”

2004 Developed Distance Education version of Geo 324 “Biogeography”, taught in Fall 2004 and Spring 2005

2005 Revamped BOT 341 “Plant Ecology” with new lectures, text, and structure

2008 Revamped and taught WRP 524 Sociotechnical Aspects of Water Resources with new lectures and texts in Fall 2008 after team teaching course with Todd Jarvis in W 2008

2011 Revamped and taught Sociotechnical Aspects of Water Resources with new laboratory field sessions.

2012 Assisted in developing and teaching new special topics course Multi-scale Hydrologic Modeling delivered concurrently at PSU and OSU

2012 Assisted in developing and teaching new course WRP 523 Environmental Water Transactions

2015 Participated in development of curriculum for a joint educational programme in Water Cooperation and Peace Master’s Level Degrees (WCP) to be delivered by UNESCO-IHE at Delft, the Netherlands, University of Peace in Costa Rica, and Oregon State University. Serving as member of the Joint Management Committee for the programme from the Oregon State University entity.

2015 Developed new course in Writing in the Water Resources as part of the WCP joint programme. Assisted in development of course Working in Collaborative Groups with Lynette de Silva

2017 Revised GEOG 324 to become a Writing-Intensive Course intended to fulfill the Baccalaureate Core requirement for Biological and Physical Sciences.

2020 Revised GEOG 324, WRP 517, and WRP 524 for remote delivery due to COVID 19 pandemic.

Graduate Student Advising

I have advised (n=43) or served on committees (n=35) for the following students:

<u>Student</u>	<u>Program</u>	<u>Role</u>	<u>Graduation</u>
Mary Barczak	MS Geography	Committee member	1996
Renee Davis	MS Fish. and Wildlife	Committee member	1997
Heather Rustigian	MS Geography	Co-major advisor	1999
Colette Coiner	MS Ag. & Res. Econ	Committee member	2000
Lori Slane	MS Geography	Co-major advisor	2001
Christina Lett	MS Geography	Major advisor	2002
Thomas Rodhouse	MS Geography	Committee member	2002
Dale Lindeman	MS Geography	Committee member	2003
Emily Larkin	MS Geography	Committee member	2004
Jennifer Larsen	MS Geography	Major advisor	2005
Mark Gascho Rempl	MS Geography	Committee member	2005
Amber Wierck	MS Environmental Sci.	Major advisor	2005
Kristal Fesler	MS Geography	Committee member	2006
Rachel Schwindt	MS Geography	Major advisor	2006
Nathan Schaub	MS Geography	Major Advisor	2007
Aaron Arthur	MS Geography	Co-major advisor	2007
Jon-Michael Bosley	MS Geography	Committee member	2006
Carla Stevens	MS Environmental Sci.	Committee member	2008
Barbara Wilson	PhD Botany	Committee member	1998
Jill Heaton	PhD Geography	Committee member	2001
Paul Adamus	PhD Fish. and Wildlife	Committee member	2002
Kellie Vaché	PhD Biol. & Ecol Eng.	Committee member	2002
France Lamy	PhD Biol. & Ecol Eng	Committee member	2002
Kelli Larson	PhD Geography	Co-Major advisor	2004
Sarah Jovan	PhD Botany	Committee member	2005
Jason Alexander	PhD Botany	Committee member	2007
Kelly Clayton	MS Environmental Sci.	Major advisor	2008
Elise Ferrarese	MS Environmental Sci.	Major advisor	2008
Tyler Beemer	MS Environmental Sci	Committee member	2008
Stacy Polkowse	MS Environmental Sci.	Major advisor	2008
Kevin Hetherington	MS Environmental Sci.	Major advisor	2008
Marisa Sowles	MS WR Pol. & Mgmt.	Major advisor	2009
Andrew Schwartz	MS Environmental Sci.	Committee member	2010
Emily Mulford	MS Environmental Sci.	Committee member	2010
Tracy Kugler	PhD Geography	Co-Major advisor	2011
Sara M. Taylor	MS Environmental Sci.	Major advisor	2011
Graysen Squeochs	MS WR Science	Committee member	2011
Andrew Neill	MS Environmental Sci.	Committee member	2012
Marc Bell	MS Environmental Sci.	Committee member	2012
Kristen Larson	MS Environmental Sci.	Committee member	2012
Julie Ryden	MS Environmental Sci.	Major advisor	2012
Mark Ingman	MS WR Pol. & Mgmt.	Major advisor	2012
Alison Doniger	MS WR Science	Major advisor	2012
Tucker Selko	MS WR Pol. & Mgmt.	Major advisor	2013
Rachel Lovellford	MS WR Science	Major advisor	2013
Maria Lewis	MS WR Pol. & Mgmt.	Major advisor	2013
Kelly Foley	MS WR Pol. & Mgmt.	Major advisor	2013
Adam Shapiro	MS Environmental Sci.	Committee member	2013
Jeffrey Dengel	MS WR Pol. & Mgmt.	Committee member	2013
Hayley Corson-Rikert	MS WR Science	Co-major advisor	2014

Alessandra Harewood	MS WR Science	Major advisor	2015
Malia Losordo	MS WR Science/J.D.	Major advisor	2018
Brett Boisjolie	MS WR Pol. & Mgmt.	Major advisor	2016
Hayley Carlson	MS WR Pol. & Mgmt.	Major advisor	2016
Deya Ramsden	MS Natural Resources	Committee member	2017
Fatima Taha	MS WR Pol. & Mgmt.	Committee member	2017
Megan Chellew	MS Geography	Major advisor	2017
Kathryn Perlman	MS Geography	Major advisor	2017
Owen McMurtrey	MS WR Pol. & Mgmt.	Committee member	2018
Nicole Feiten	MS WR Science	Major advisor	2018
Michelle Talal	PhD Environmental Sci.	Major advisor	2019
Sophia Bauer	MS WR Science	Committee member	2019
Max Henkels	MS WR Pol. & Mgmt.	Co-advisor	2019
Aminjon Abdullaev	MS WR Pol. & Mgmt.	Advisor	2019
Theresa Keith	MS WR Pol. & Mgmt.	Advisor	2020
Aigul Arynova	MS WR Pol. & Mgmt.	Advisor	2020
Samantha Smiley	Master of Natural Res.	Committee member	2020
Abdullah Yigit	MS WR Pol. & Mgmt.	Co-advisor	2021
Keaton Schrank	MS Geography	Advisor	2021
Elena Tuttle	PhD Environmental Sci.	Committee member	2022
Rosemary Pazdral	PhD WR Science	Co-major advisor	2022
Fatima Taha	PhD Geography	Major advisor	2022
Lya Carini	MS WR Science	Major advisor	2022
Ashley Voisinet	MS WR Pol. & Mgmt.	Major advisor	2022 (anticipated)
Michael Harrison	PhD WR Science	Co-major advisor	2023 (anticipated)
Jalal Faqiryar	MS WR Pol. & Mgmt.	Advisor	2023 (anticipated)
Utkir Adkhamov	MS WR Pol. & Mgmt.	Committee member	2022 (anticipated)
Dina Kaskina	MS WR Pol. & Mgmt.	Committee member	2022 (anticipated)
Sara Windoloski	MS WR Science	Advisor	2024 (anticipated)

Undergraduate thesis advisor

I advised OSU undergraduate Joshua Mater in his senior thesis project for the International Studies in Geography major. The project was entitled “Forest Certification as a Tool to Achieve Sustainable Forestry in the International Market: Contrasts between Japan and the United States”.

REU Mentor, Undergraduate Research Program (URP) Mentor, Internship Mentor

Megan Gomez (REU 2013)
Sally Cai (REU 2015)
Hattie Greydanus (REU 2017)
Hattie Greydanus (URP 2018)
Tyler Cooper-Kolb (REU 2020)
Tiajahlyn Furr (URP 2020)
Scott Schmidt (Geography 2020)
Micayla Schambura (REU 2021)
Mikaela Clarke (Geography 2021)
Kyler Casper (Botany 2022)

PROPOSALS on which I serve as PI or Co-PI

<u>Funding Agency</u>	<u>Proposal Title</u>	<u>Status</u>	<u>Submitted</u>	<u>Requested Amount</u>
USDA Forest Service	Monitoring streamflow in remote Alaska watersheds	Awarded	2021	\$60,000
NW CASC	Fellowship-to study climate resilience of coastal watersheds-	Awarded	4/27/2020	\$42036
USDA Forest Service	Climate change impacts on coastal streams And amendments	Awarded	05/30/2018 5/30/2020	\$60000
USDA Forest Service	Climate change impacts on coastal streams And amendments	Awarded	05/30/2018 5/30/2020	\$20000 +\$46,000
Oregon State Parks	Monitoring <i>Darlingtonia californica</i>	Awarded	11/15/2019	\$10,000
NSF	Urban Water Innovation Network	Awarded	*02/15/2015	\$1,099,948
Oregon State Parks	Monitoring Abundance of <i>Darlingtonia californica</i> at <i>Darlingtonia</i> Wayside State Park	Awarded	04/30/2016	\$9184 +\$6000
NOAA Sea Grant	Status and Trends in Landowner Attitudes Towards Restoration in the Coos Bay Lowlands Watershed, Oregon	Declined	03/01/2014	\$103,000
NSF	Developing ecologically-relevant metrics to assess climate change impacts in Pacific Northwest coastal streams	Declined	06/03/2013	\$494,493
NOAA	Keeping Pace With Climate Change: Pro-Active Planning for Estuary Restoration Under Future Sea-Level Rise	Declined	05/13/2013	\$179,809
NSF	Long-term hydrologic regimes in coastal streams of the Pacific Northwest	Declined	12/05/2012	\$468,222
US EPA	Sustainable Alternatives to Plastic Mulch-Phase II	Awarded	10/01/2012	\$90,000
NSF	S-STEM Fellowships for Water Resources	Awarded	8/12/2011	\$425,000
US EPA	Sustainable Alternatives to Plastic Mulch	Awarded	12/22/2010	\$19,000
NSF	S-STEM Fellowships for Water Resources	Declined	8/15/2010	\$425,000
USFS	Climate Change Effects on Coastal Draining Streams in Oregon	Awarded	3/26/2010	\$65,000
US EPA Reg. 10	Assisting PNW Communities in TMDL planning	Declined	11/05/2009	\$80,064
NSF	Water Governance In The Face Of Uncertainty	Declined	7/14/2009	\$6,998,964

<u>Funding Agency</u>	<u>Proposal Title</u>	<u>Status</u>	<u>Submitted</u>	<u>Requested Amount</u>
US EPA Reg. 10	Assisting PNW Communities in TMDL planning	Declined	12/08/2008	\$119,545
USEPA	Forecasting Wetland Ecosystem Services	Declined	11/03/2008	\$475,000
NSF	DRU Building a Research Community for Water Governance in an Era of Uncertainty	Declined	01/23/2007	\$124,998.00
USDA	USDA CSREES National Needs Fellowships in Sustainable Sciences	Declined	06/05/2007	\$500,000
NSF	Planning Grant for the Pacific Northwest GIScience Center of Excellence	Discouraged	04/25/2006	\$69,660
NSF	Use of mobile visualization technology to enhance stakeholder participation in environmental decision making	Discouraged	03/21/2006	\$690,698
NSF	Using Lichen to Quantify Geographic Patterns of Pollutant Deposition	Declined	01/27/2006	\$99,384
NSF	Modeling the influence of trophic dynamics on cyanobacterial blooms in Oregon lakes	Declined	01/11/2006	\$466,282
USGS-IWW	Collaborative learning towards sustainable agricultural landscapes in Muddy Creek, OR	Awarded	11/13/2005	\$45000
NSF	BE/CNH: Wetlands as Coupled Human-Natural Systems in Urban Landscapes	Declined	12/03/2003	\$1,999,641
NSF	Doctoral Dissertation Research: An Investigation of Individual and Group Attitudes Toward Water Resources in Portland, Oregon	Awarded	02/14/2003	\$10,446.00
NSF	BE/CNH: Linkages Among Human, Terrestrial, and Aquatic Systems: Wetlands in Urban Landscapes	Declined	11/19/2002	\$1,996,537
NSF	ITR/IIS: Virtual Center for Interdisciplinary Watershed Studies	Declined	11/13/2001	\$4,975,440
NSF	Biocomplexity of Coupled N,C & Hydrologic Cycles in Agroecosystems	Declined	03/29/2001	\$2,493,286
NSF	BE/CNH: Sustaining Multiple Functions for Urban Wetlands	Awarded	03/15/2001	\$100,000
NSF	Virtual Center for Study of Transboundary Waters	Declined	07/31/2000	\$3,376,260
US EPA	Developing Methods and Tools for Watershed Restoration (with PI J. Bolte)	Awarded	2/28/1997	\$809,993
US EPA/ NSF	Modeling Effects of Alternative Landscape Design and Management on Water Quality and Biodiversity in Midwest Agricultural Watersheds.	Awarded	05/03/1996	\$1,228,520

- I serve as co-PI on this project since August of 2016 with PI Roy Haggerty

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Ecological Society of America, International Association for Landscape Ecology, American Water Resources Association, American Geophysical Union

PUBLICATIONS

EDITED BOOKS (1)

Joan Iverson Nassauer, **Mary V. Santelmann**, and Donald Scavia, Editors. 2007. *From the Corn Belt to the Gulf: Environmental and Societal Implications of Alternative Agricultural Futures*. Resources for the Future Press: Washington D.C. ISBN 978-1-933115-47-4

BOOK CHAPTERS (13)

1. Flitcroft, R., B. Boisjolie*, and **M. Santelmann**. 2020. Fragmentation of riparian protections throughout catchments, Oregon, USA. Annex 22. *In*: Hilty, J.*, Worboys, G.L., Keeley, A.*, Woodley, S.*, Lausche, B., Locke, H., Carr, M., Pulsford I., Pittock, J., White, J.W., Theobald, D.M., Levine, J., Reuling, M., Watson, J.E.M., Ament, R., and Tabor, G.M.* (Eds.) *Guidelines for conserving connectivity through ecological networks and corridors*. Best Practice Protected Area Guidelines Series No. 30. Gland, Switzerland: IUCN. *Corresponding authors: Hilty (jodi@y2y.net), Keeley (annika.keeley@yahoo.com), Woodley (woodleysj@gmail.com), Tabor (gary@largelandscapes.org)
2. **Santelmann, M.**, S. Gordon, D. Hulse. 2019. ESRI Press. International Geodesign Collaborative. Redlands, CA.
3. **Santelmann, M.V.**, J. McDonnell, J. Bolte, S. Chan, A.T. Morzillo, and D. Hulse. 2012. Willamette Water 2100: River basins as complex social-ecological systems. *In*: The Sustainable City VII, Vol. 1, 575-586. ed. M. Pacetti. WIT Transactions on Ecology and The Environment, Vol 155, C 2012 WIT Press www.witpress.com, ISSN 1743-3541 (on-line) ISBN: 978-1-84564-578-6
4. **Santelmann, M.V.** 2010. Water Needs. *In*: *Encyclopedia of Geography*, edited by Barney Warf, SAGE Publications.
5. Perovich, G., Q. Dortch, J. Goodrich, P. Berger, J. Brooks, T.J. Evens, C. J. Gobler, J. Graham, J. Hyde, D. Karner, D.K. O'Shea, V. Paul, H. Paerl, M. Piehler, B.H. Rosen, **M.V. Santelmann**, P. Tester, and J. Westrick. 2007. Causes, Prevention and Mitigation Working Group Report. Chapter 9 in *Proceedings of the Interagency, International Symposium on Cyanobacterial Harmful Algal Blooms*. H.K. Hudnell [Ed]. Advances in Experimental Medicine & Biology. Springer Press: New York.

6. **Santelmann, M.V.**, J. Sifneos, D. White, and K. Freemark. **2007**. Assessing Potential Plant Diversity in Alternative Future Landscapes for the Agricultural Midwest. *In: Nassauer, J. I., M.V. Santelmann, and D. Scavia, eds. From the Corn Belt to the Gulf: Environmental and Societal Implications of Alternative Agricultural Futures*. Resources for the Future Press: Washington D.C.
7. Debinski, D. M., **M. V. Santelmann**, D. White, K. E. (Freemark) Lindsay, J. Sifneos Pollinator Responses to Alternative Futures for Agricultural Watersheds. **2007**. *In: Nassauer, J. I., M.V. Santelmann, and D. Scavia, eds. From the Corn Belt to the Gulf: Environmental and Societal Implications of Alternative Agricultural Futures*. Resources for the Future Press: Washington D.C.
8. Clark, M. E., B. J. Danielson, **M. V. Santelmann**, D. White. **2007**. Modeling mammal community dynamics in agricultural watersheds of the American Midwest. *In: Nassauer, J. I., M.V. Santelmann, and D. Scavia, eds. From the Corn Belt to the Gulf: Environmental and Societal Implications of Alternative Agricultural Futures*. Resources for the Future Press: Washington D.C.
9. Rustigian, H*, **M. Santelmann**, N. Schumaker. **2007**. Assessing the Potential Impacts of Alternative Landscape Designs on Amphibian Population Dynamics. *In: Nassauer, J. I., M.V. Santelmann, and D. Scavia, eds. From the Corn Belt to the Gulf: Environmental and Societal Implications of Alternative Agricultural Futures*. Resources for the Future Press: Washington D.C.
10. Vaché, K.B.*, J.M. Eilers, **M.V. Santelmann**. **2007**. Water quality modeling of alternative agricultural scenarios in two Iowa watersheds. *In: Nassauer, J. I., M.V. Santelmann, and D. Scavia, eds. From the Corn Belt to the Gulf: Environmental and Societal Implications of Alternative Agricultural Futures*. Resources for the Future Press: Washington D.C.
11. **Santelmann, M.**, D. White, K. Freemark, J. I. Nassauer, J. M. Eilers, K. B. Vaché, B. J. Danielson, R. C. Corry, M. E. Clark, S. Polasky, R. M. Cruse, J. Sifneos, H. Rustigian, C. Coiner, J. Wu, D. Debinski. **2007**. Assessing Alternative Futures for Agriculture in the U. S. Corn Belt. *In: Nassauer, J. I., M.V. Santelmann, and D. Scavia, eds. From the Corn Belt to the Gulf: Environmental and Societal Implications of Alternative Agricultural Futures*. Resources for the Future Press: Washington D.C.
12. **Santelmann, M.**, K. Freemark, D. White, J. Nassauer, M. Clark, B. Danielson, J. Eilers, R. Cruse, S. Galatowitsch, S. Polasky, J. Wu. **2001**. Applying Ecological Principles to Land-Use Decision-making in Agricultural Watersheds. *In: V. Dale and R. Haueber, eds. Applying Ecological Principles to Land Management*. J.Wiley and Sons, Inc.

13. Gorham, E., S.J. Eisenreich, M.S. Ford, **M.V. Santelmann**. 1985. The Chemistry of Bog Waters. *In: Chemical Processes in Lakes*, ed. Werner Stumm, Wiley and Sons, Inc.

ARTICLES IN PEER-REVIEWED LITERATURE (40) * Graduate student co-author

1. *Tchintcharauli-Harrison M. B., **Santelmann M. V.**, Greydanus, H., Shehab, O. and Wright, M. 2022. Role of neighborhood design in reducing impacts of development and climate change, West Sherwood, OR. *Front. Water* 3:757420.
doi: 10.3389/frwa.2021.757420
2. *Talal, M. L., **M. V. Santelmann**, and J. Tilt. 2021. Urban park visitor perceptions of vegetation in Portland, Oregon. *Plants, People and Planet*.
doi: 10.1002/ppp3.10188
3. Ibsen, P., D. Borowy, T. Dell, D. Hondula, H. Greydanus, N. Gupta, T. Meixner, **M. Santelmann**, S. Shiflett, M. Sukop, C. Swan, M. Talal, M. Valencia, M. Wright, G. Jenerette. 2021. Greater Aridity Increases the Magnitude of Urban Nighttime Vegetation-Derived Air Cooling. *Environ. Res. Lett.* **16** 034011
4. **Santelmann, M.V.**, * A.G. Harewood, and R. Flitcroft. 2021. Effects of Stream Enhancement Structures on Water Temperature in South Sister Creek, Oregon, USA. *Northwest Science* 95(2):130-151.
5. Wright, M., **M.V. Santelmann**, D. Hulse, K. Vaché. 2021. Modeling the impact of development policies and climate on suburban watershed hydrology near Portland, Oregon. *Landscape and Urban Planning*, 214, 104133.
6. *Talal, M.L. and **Santelmann, M.V.** 2021. Visitor access, use, and desired improvements in urban parks. *Urban Forestry & Urban Greening*, 63, p.127216.
7. *LovellFord, R. M., R. L. Flitcroft, S. L. Lewis, **M. V. Santelmann**, G. E. Grant. 2020. Patterns of river discharge and temperature differentially influence migration and spawn timing for Coho Salmon *Oncorhynchus kisutch* in the Umpqua River Basin, Oregon. *Transactions of the American Fisheries Society*. <https://doi.org/10.1002/tafs.10264>
8. *Talal, M. L. and **M. V. Santelmann**. 2020. Vegetation management for urban park visitors: a mixed methods approach in Portland, Oregon. *Ecological Applications* <https://doi.org/10.1002/eap.2079>

9. **Santelmann, M.**, B. Boisjolie*, R. Flitcroft, and M. Gomez. 2019. Relationships between vegetation and elevation in Oregon salt marshes. *Northwest Science* 43(2):137-154.
10. **Santelmann, M.V.**, D. Hulse, M. Wright, C. Enright, A. Branscomb, M. Tchintcharauli- Harrison*, J. Bolson. 2019. Designing and modeling innovation across scales for urban water systems. *Urban Ecosystems*
<https://doi.org/10.1007/s11252-019-00882-6>
11. *Talal, M. L. and M. V. Santelmann 2019. Plant Community Composition and Biodiversity Patterns in Urban Parks of Portland, Oregon. *Front. Ecol. Evol.*, 04 June 2019 | <https://doi.org/10.3389/fevo.2019.00201>
12. Flitcroft, R., Ivan Arismendi, Chante Davis, Guillermo Giannico, Sarah Lewis, Brooke Penaluna, **Mary Santelmann**, Mohammad Safeeq, and Jeff Snyder. 2019. Using expressed behavior of Coho Salmon (*Oncorhynchus kisutch*) to evaluate vulnerability of upriver migrants under future hydrological regimes: management implications and conservation planning. *Aquatic Conservation: Marine and Freshwater Ecosystems*. 06 February 2019. <https://doi.org/10.1002/aqc.3014>
13. *Boisjolie, B. A., R. L. Flitcroft, and **M. V. Santelmann**. 2019. Patterns of riparian policy standards in riverscapes of the Oregon Coast Range. *Ecology and Society* 24(1):22. <https://doi.org/10.5751/ES-10676-240122>.
14. Flitcroft, R.L., I. Arismendi, and **M.V. Santelmann**. 2018. “A Review of Habitat Connectivity Research for Pacific Salmon in Marine, Estuary, and Freshwater Environments. *Journal of the American Water Resources Association* 1–12.
<https://doi.org/10.1111/1752-1688.12708>
15. *Ferguson, L., S. Chan, **M.V. Santelmann**, B. Tilt, **2018**. Transdisciplinary research in water sustainability: What’s in it for an engaged researcher-stakeholder community? *Water Alternatives* 11(1): 1-18.
16. *Danner, A., M. Safeeq, G. Grant, D. Tullos, C. Wickham, and **M.V. Santelmann**. 2017. Assessing Climate Change Impacts on Operations of a Multipurpose Reservoir in Oregon, USA. *JAWRA* 53 (6): 1467-1482. DOI: 10.1111/1752-1688.12589
17. *Boisjolie, B.A., **M.V. Santelmann**, R. Flitcroft, and S. Duncan. 2017. Legal ecotones: A comparative analysis of riparian policy protection in the Oregon Coast Range, USA. *Journal of Environmental Management* 197: Pages 206–220
<https://doi.org/10.1016/j.jenvman.2017.03.075>
18. Flitcroft, R., S. Lewis, I. Arismendi, *R. LovellFord, M. Safeeq, and **M.V. Santelmann**. 2017. Let the fish do the talking: linking hydrologic conditions with fish phenotypes. *PLoSOne*.

19. Boll, J., T. Link, **M. V. Santelmann**, R. Heinse, and B. Cosens. **2016**. Analysis and Synthesis of Best Practices in Interdisciplinary Social-Environmental Education in the USA. *Interdisciplina* 4(10):147-170.
20. *Corson-Rikert, H.C., S. Wondzell, R. Haggerty, and **M.V. Santelmann**. **2016**. - Carbon dynamics in the hyporheic zone of a headwater mountain stream in the Cascade Mountains, Oregon. *Water Resources Research* 52, doi:10.1002/2016WR019303.
21. *Ferguson, L., S. Chan, **M.V. Santelmann**, B. Tilt, **2016**. Exploring participant motivations and expectations in a researcher-stakeholder engagement process: Willamette Water 2100, *Landscape and Urban Planning*, Volume 157, January 2017, Pages 447-456, ISSN 0169-2046, <http://dx.doi.org/10.1016/j.landurbplan.2016.08.014>.
22. *Highland, S., **M.V. Santelmann**, and *R. Schwindt. **2015**. Plant Community Dynamics in Remnant and Restored Willamette Valley Wetland Prairie. *Ecological Restoration* 33(2):156-170.
23. *Ingman, M., **M.V. Santelmann** and B. Tilt. **2015**. Agricultural Water Conservation in China: Plastic Mulch and Traditional Irrigation. *Ecosystem Health and Sustainability* 1(4):12. <http://dx.doi.org/10.1890/EHS14-0018>.
24. *Taylor, S. and **M.V. Santelmann**. **2014**. Comparing Vegetation and Soils of Remnant and Restored Prairie Wetlands in the Northern Willamette Valley. *Northwest Science* 88:329-343.
25. Jaeger, W.A. A. J. Plantinga, H. Chang, K. Dello, G. Grant, D. Hulse, J. J. McDonnell, S. Lancaster, H. Moradkhani, A. T. Morzillo, P. Mote, A. Nolin, **M. Santelmann**, and J. Wu. **2013**. Toward a formal definition of water scarcity in natural-human systems. *Water Resources Research*, VOL. 49, 1–12, doi:10.1002/wrcr.20249
26. **Santelmann, M.V.**, Gosnell, H. and S. M. Meyers. **2011**. Connecting Children to the Land: Place-Based Education in the Muddy Creek Watershed, Oregon. *Journal of Geography* 110(3):91-106.
27. **Santelmann, M.V.** **2008**. Meeting the Need for Water Resource Professionals: Recruiting More Women and Minorities. *Journal of Contemporary Water Resources Research and Education* 141:64-71. 10.1111/j.1936-704X.2009.00039.x
28. **Santelmann, M.V.** **2007**. Informing Decision Making for Agricultural Watersheds. *Journal of Contemporary Water Resources Research and Education* 136: 37-43.

29. Larson, K.L.* and **M. V. Santelmann. 2007.** The relationship between proximity to water and residents' attitudes about water resource protection. *Professional Geographer* 59(3): 316-333.
30. **Santelmann, M.V.,** K. E. Freemark, J. Sifneos, and D. White. **2006.** Assessing effects of alternative agricultural practices on wildlife habitat in Iowa, USA. *Agriculture, Ecosystems and Environment* 113: 243–253
31. **Santelmann, M. V.** and, K. L. Larson*. **2005.** Sustaining multiple functions for urban wetlands. *Wetlands* 24(4): 717-718.
32. **Santelmann, M.,** D. White, K. Freemark, J. I. Nassauer, J. M. Eilers, K. B. Vaché*, B. J. Danielson, R. C. Corry, M. E. Clark, S. Polasky, R. M. Cruse, J. Sifneos, H. Rustigian*, C. Coiner*, J. Wu, D. Debinski. **2004.** Assessing Alternative Futures for Agriculture in the U. S. Corn Belt. *Landscape Ecology* 19: 357-374.
33. Rustigian, H.* , **M. Santelmann,** N. Schumaker. **2003.** Assessing the potential impacts of alternative landscape designs on amphibian population dynamics. *Landscape Ecology* 18:65-81.
34. Vaché, K.B.* , J.M. Eilers, **M.V. Santelmann. 2002.** Water quality modeling of alternative agricultural scenarios in two Iowa watersheds. *Journal of the American Water Resources Association* 38:773-787.
35. Lamy, F.* , J. Bolte, K. Vaché* , **M. Santelmann,** and C. Smith. **2002.** Development and evaluation of multi-objective decision-making methods for watershed management planning. *Journal of the American Water Resources Association* 38:517-530.
36. White, D., P.G. Minotti* , M.J. Barczak* , K.E. Freemark, **M.V. Santelmann,** A.R. Kiestler, E. Preston. **1997.** Assessing risks to biodiversity from future landscape change. *Conservation Biology* 11: 349-360.
37. **Santelmann, M. 1992.** Cellulose mass loss in ombrotrophic bogs of northeastern North America. *Canadian Journal of Botany* 70:2378-2383.
38. **Santelmann, M. 1991.** The ecology and distribution of *Carex exilis*: an experimental approach. *Ecology* 72: 2025-2037.
39. Foster, D.A., G.A. King, and **M.V. Santelmann. 1988.** Patterned fens of western Labrador and adjacent Quebec: Phytosociology, water chemistry, landform features, and dynamics of surface patterns. *Canadian Journal of Botany* 66: 2402-2418.
40. **Santelmann, M.** and E. Gorham. **1988.** The influence of airborne road dust on the chemistry of *Sphagnum* mosses. *Journal of Ecology* 76: 1219-1231.

TECHNICAL REPORTS (7)

Darlingtonia Botanical Wayside Monitoring Project. December 2020. Mary Santelmann, Megan Chellew, Trevor Grandy and Scott Schmidt. Final Report for 2020. Oregon State Parks, Salem OR.

Darlingtonia Botanical Wayside Monitoring Project. 2017. Megan Chellew, Mary Santelmann, Trevor Grandy and Joseph Kemper. Final Report for 2016-2017. Oregon State Parks, Salem OR.

Water Resource Task Force, Oregon State University. 2016. Building on an Exceptional Foundation to Establish Global Leadership in Water. Task Force members: John Selker, Dan Arp, W. Todd Jarvis, Brenda Mc Comb, Christine Kelly, Denise Lach, Caroline Nash, Malgo Peszynska, Mary Santelmann, Aaron Wolf.

Water Resources Graduate Program Self-Study. 2014. Prepared in preparation for the Ten-Year Program Review of the Water Resources Graduate Program.

SUCCESSFUL MODELS OF INTERDISCIPLINARY GRADUATE EDUCATION: 2018. Tyler, B. Bernell, D., Carroll, K., Wonhof, A., Fraser, V., Filtz, T., Bermudez, L., Higgins, A., Thorburn, S., Giovannoni, S., **Santelmann, M.**, Mote, P., Fonyo, C., Selker, J. Report of the Taskforce on Interdisciplinary Graduate Education Programs to the Oregon State University Graduate School.

US EPA CHAB Working Group Report. **2006**. Working group members: Paul S. Berger, Justin Brooks, Terence J. Evens, Christopher J. Gobler, Jennifer Graham, James Hyde, Dawn Karner, Dennis (Kevin) O'Shea, Valerie Paul, Hans Paerl, Michael Piehler, Barry H. Rosen, **Mary Santelmann**, Pat Tester, Judy Westrick. *Cyanobacterial Harmful Algal Blooms (CHABs): Causes, Prevention, and Mitigation* edited by Gina Perovich, Quay Dortch, and James Goodrich. Final Report to US-Environmental Protection Agency, Fall 2006.

Adamus, P.R., D. White, **M. Santelmann**, P. Haggerty, and J.P. Baker. **2000**. Terrestrial Vertebrate Species of the Willamette River Basin: Species-Habitat Relationships Matrix. Internal Report. U.S. Environmental Protection Agency, Corvallis, OR.
<http://www.fsl.orst.edu/pnwerc/wrb/access.html>

Santelmann, M. **1991**. Evaluating the utility of natural vegetation in assessing arctic accumulation of air toxics. Report to the US EPA Arctic Accumulation of Air Toxics Program, Corvallis ERL. 143 pp.

Gorham, E., **M. Santelmann**, & J. McAllister. **1984**. A Peatland Bibliography: Chiefly with reference to the ecology and biogeochemistry of *Sphagnum* bogs. An annotated bibliography. Minnesota State Planning Agency.

PUBLICATIONS In Revision, Review, or In Press

*Pazdral, R., **M.V. Santelmann**, and R. Flitcroft. Variation in stable isotope composition reflects source of streamwater across contrasting geologies in coastal, rain-dominated watersheds. In review 2022. Journal of Hydrology.

*Pazdral, R., **M.V. Santelmann**, and R. Flitcroft. Hydrometric Indicators of Streamflow Responsiveness in Watersheds of the Oregon Coast Range. In prep for Water Resources Research.

*Foley, K.M., C.C. Shock, and **M.V. Santelmann**. Voluntary adoption of sustainable agricultural practices in Northern Malheur County, Oregon, USA. In Revision.

Santelmann, M.V. and K. Casper. In revision. Growth and productivity of the moss *Sphagnum fuscum*, in bogs from the mid-continent to the east coast of North America. Target Journal: Ecology of the Total Environment.

PRESENTATIONS (ORAL SESSIONS AND POSTERS)

Santelmann, M.V., M. Chellew and T. Grandy. 2021. Darlingtonia Wayside: A Unique Coastal Wetland. Presentation to Emerald Chapter of the Oregon Native Plant Society January 18, 2021.

Santelmann, M.V., M. Tchintcharauli-Harrison, M. Wright, M. Talal, H. Greydanus. 2020. Impacts of Development and Climate Change at Multiple Scales in Oregon. American Geophysical Union. December 2020. Online.

Santelmann, M.V., M. Tchintcharauli-Harrison, M. Wright, M. Talal, H. Greydanus. 2020. Urban Water Innovations: It's Not Easy Being Green. Water Resources Seminar Series. November 2020.

Santelmann, M.V. 2019. Evaluating biodiversity as a co-benefit of innovative water management solutions in urbanizing areas. Ecological Society of America August 6-10 2019, Louisville, Ky.

Wright, M., **M. Santelmann**, and D. Conklin 2019. Modeling Hydrologic Effects of Urbanization Using a Coupled Natural-Human Systems Model. American Geophysical Union Fall Meeting December 2019. San Francisco, CA.

Santelmann, M.V. 2019. Evaluating Biodiversity in Human-Dominated Landscapes. CEOAS Geography seminar, October 2019.

Talal, M. and **M.V. Santelmann**. 2018. Plant greenness and health of various income-level neighborhoods in Portland, OR using Landsat 8 OLI/TIRS surface reflectance. Poster presented at Urban Ecosystems Research Symposium, Portland, OR. Feb. 5 2018.

Santelmann, M.V., et al. 2018. Multi-scale modelling of Urban Water Systems. USGS Winter Seminar Series, Portland Oregon January 23, 2018.

Santelmann, M.V., et al. 2017. Multi-scale modeling of Alternative Futures for Urban Water Systems. American Water Resources Association. Portland, Oregon. November 2017.

Santelmann, M.V. and *B. Boisjolie. 2017. Using vegetation and elevation surveys to assess the accuracy of coastal LIDAR in salt marshes of Coos Bay, OR. Ecological Society of America August 3-9 2017.

Talal, M. and **M.V. Santelmann.** 2017. Vegetation biodiversity patterns and ecosystem functioning in various types of green infrastructure in Portland, OR. Poster presented at Urban Ecosystems Research Symposium, Portland, OR February 2017.

Santelmann, M.V. 2016. Riverscapes as Complex Adaptive Systems. October 2016 Water Resources Seminar on Water Cooperation and Peace. Oregon State University, Corvallis, OR

Santelmann, M.V. 2016. Who's doing the Science? (and does it matter?) Seminar Presentation to Oregon State University Summer REU program participants. Summer session 2014, 2016, 2017, 2018. Oregon State University, Corvallis, OR

Santelmann, M. 2015. Keeping the inter- in interdisciplinary education. Presentation at the American Water Resources Association Annual Meeting Denver, CO. Dec. 7 2015.

Flitcroft, R., B. Penaluna, and **M. Santelmann. 2015.** Symposium Organizers: Keeping Pace with Climate Change. International Association for Landscape Ecology World Congress, Portland OR. August 5-10 2015.

Santelmann, M.V. 2013. Willamette Water 2100. American Waste Water Association Chapter Meeting, Eugene, OR. February 18, 2014.

Schwartz, M.W., **M.V. Santelmann,** D.A. Foster. 2013. Symposium in honor of Eville Gorham, H.E. Wright and Margaret Davis: Ecological Society of America Meetings, Minneapolis St. Paul, MN August 5-10 2013.

Santelmann, M.V., *S. Highland, *S.M. Taylor and *R. Schwindt. 2012. Species-area relationships in wet-prairie remnants and restorations of the Willamette Valley, OR. Ecological Society of America. Minneapolis, MN. August 4-9, 2013.

Santelmann, M.V., S. Chan, A. Morzillo, A. Stebbins, M. Wright. 2012. Enhancing Understanding of Coupled Human-Natural Systems Through Collaborative Learning. American Geophysical Union. December 3-7, San Francisco CA. USA.

Santelmann, M.V., J. P. Bolte and T. Larsen. 2012. Assessment of biodiversity in alternative future landscapes of the Willamette Valley, Oregon. Oral presentation given at the Ecological Society of America meeting in Portland, OR. August 5-10, 2012.

Santelmann, M., J. McDonnell, J. Bolte, S. Chan, A.T. Morzillo, D. Hulse, and M. Wright. 2012. Willamette Water 2100: river basins as complex socio-ecological systems. Oral presentation given at the International Conference on *Water and Society 2011*, Las Vegas, NV. December 5-7, 2011.

Santelmann, M.V. 2006. Water Resources Graduate Program. Presentation to Oregon State University Deans, May 18, 2010.

MacQuarrie, P., L. de Silva, N. Eidem, **M. V. Santelmann**, A. T. Wolf. 2007. An Integrated Program to Inform Water Policy and Conflict Management. Poster presented at the Conference: *Water in the Pacific Northwest: Moving Science into Policy and Action*, held at Skamania Lodge, Stevenson, WA, November 7-9, 2007.

Santelmann, M.V. 2007. Invited presentation entitled, “Using Wetlands to Teach Landscape Ecology” given at workshop entitled *Constructing and Teaching a Great Course in Landscape Ecology*. U.S. Regional Symposium of the International Association for Landscape Ecology, Tucson, Arizona April 9, 2007.

Santelmann, M.V. 2006. Workshop on “Developing land use scenarios for economic-ecological studies”. December 6, 2006. Institute for Landscape Ecology and Resources Management, Justus Liebig University, Gießen, Germany.

Santelmann, M.V. 2006. Evaluating Biodiversity in Alternative Futures. December 6, 2006. Institute for Landscape Ecology and Resources Management, Justus Liebig University, Gießen, Germany.

Santelmann, M.V. 2006. Using Alternative Future Scenarios in Multi-objective Planning and Evaluation of Agricultural Landscapes. December 5, 2006. Institute for Landscape Ecology and Resources Management, Justus Liebig University, Gießen, Germany.

Santelmann, M.V. 2006. Programmatic impact of the IWW initiative. Presentation to Oregon State University Geosciences Board of Advisors, May 18, 2006.

Santelmann, M., P. Warner, K. Erickson, H. Schloss, G. Phillips. **2004.** Educating the next generation of interdisciplinary scientists: Integrating research and education. Poster presented at Ecological Society of America Meetings, Portland, OR.

Larson, K. L., D. Lindeman, **M. Santelmann**, and D. Lach. March 2002. An Interdisciplinary Study of Urban Wetlands in Portland, Oregon. Poster presented at the

Annual Conference of the Association of American Geographers (AAG), Los Angeles, CA

Santelmann, M.V., C.M. Lett, .P.R. Adamus. **2002.** Developing and evaluating a habitat restoration component of a decision-support system to be used by Oregon watershed councils. Poster presented at Ecological Society of America Meetings, Tucson, AZ.

Santelmann, M.V., K. Freemark, D. White, J. Nassauer, M. Clark, B. Danielson, J. Eilers, R. Cruse, S. Galatowitsch, S. Polasky, J. Wu. **2001.** Managing successful interdisciplinary projects: Lessons learned. Presentation for Scientific Consulting Group Workshop, US-EPA STAR grants program. Oct 11-12, 2000. Washington D.C.

Santelmann, M.V., K. Freemark, D. White, J. Nassauer, M. Clark, K. Vache, B. Danielson, J. Eilers, R. Cruse, H. Rustigian, S. Galatowitsch, S. Polasky, J. Wu. **1999.** Alternative Futures for Agriculture. Invited Symposium Presentation at Fifth World Congress of Landscape Ecology. Snowmass, CO.

Santelmann, M.V., K. Freemark, D. White, J. Sifneos, and S. Galatowitsch 1998. Developing models for the prediction and evaluation of plant diversity in agricultural watersheds. Poster presented at 13th annual conference International Association for Landscape Ecology meetings in East Lansing, MI.

Santelmann, M.V., K. Freemark, D. White, J. Nassauer, M. Clark, B. Danielson, J. Eilers, R. Cruse, S. Galatowitsch, S. Polasky, J. Wu. **1999.** Science-based alternative future scenarios for use in landscape planning: an Iowa example. Presentation to Illinois EPA and Illinois DNR, Dec 8, 1999.

Santelmann, M.V. , K. Freemark, D. White, J. Nassauer, M. Clark, B. Danielson, J. Eilers, R. Cruse, S. Galatowitsch, S. Polasky, J. Wu. **1999.** Using Alternative Futures to Assist in Ecosystem Based Planning. Invited poster presentation in honor of Eville Gorham upon occasion of his retirement, University of MN, St. Paul, MN. April, 1999.

Santelmann, M.V., K. Freemark, D. White, J. Nassauer, M. Clark, B. Danielson, J. Eilers, R. Cruse, S. Galatowitsch, S. Polasky, J. Wu. **1998.** Incorporating Ecological Principles for Land Use and Management in Agricultural Watersheds. Invited Symposium Presentation at Association of American Geographers, Honolulu, Hawa'ii.

Santelmann, M.V. and K. E. Freemark. **1996.** Alternative Future Scenarios for agricultural ecosystems. Presentation at Program Review, NSF/US EPA Partnership Science to Achieve Results, Water and Watersheds Program. Corvallis, OR May 1996.

Santelmann, M.V. and Denis White. **1992.** Modifying habitat suitability requirements for forest birds by consideration of spatial configuration of habitat. Presentation at Biodiversity Research Consortium Workshop. US EPA. Corvallis, OR.

RELEVANT PROFESSIONAL ACTIVITIES

Participant in Workshop on Sexual Harassment prevention at Oregon State University 2017

Training as PI in Animal Care and Use -current

Training as PI in Conduct of Research Involving Human Subjects -current

Training in Safe Driving for Federal Vehicle Use- current

Training in use of CORE Reporting Oregon State University

Member of Science Review Panel for the American Water Resource Association 2016.

Joint Management Committee, Water Cooperation and Peace Joint Educational Programme with University of Peace, Ciudad Colon, Costa Rica and UNESCO-IHE, Delft, The Netherlands.

Director, Water Resources Graduate Program, Oregon State University. 2005-present.

Senior Person on Grant Entitled: Portland-Vancouver Ultra-Ex, funded by US NSF. 2010-2012.

Participant in Workshop on Advising Doctoral Students for University Faculty and Administrators; offered by Oregon State University Graduate School Spring Term 2010.

Participant in Workshop on Suicide Prevention for University Faculty and Administrators; Suicide Gatekeeper Training February 5, 2008 offered by Oregon State University Counseling Services.

Member of the Oregon State University C2D (Committed to Diversity) Task Force. Member of the Mentoring group working to identify, coordinate, and enhance mentoring efforts at Oregon State University, and to improve efforts to mentor students, staff, and faculty from underrepresented groups.

Invited member of US EPA Working Group on Causes, Prevention, and Mitigation of Harmful Algal Blooms. *Cyanobacterial Harmful Algal Blooms (CHABs)*: and contributor to report edited by Gina Perovich, Quay Dortch, and James Goodrich. Final Report to US-Environmental Protection Agency, Fall 2006.

Treasurer for U.S. Chapter of the International Association for Landscape Ecology, 2004-2006. Received a Service Award for assisting in maintaining healthy financial status of organization.

Held a leadership role in organizing a conference and workshop on Urban Wetlands. Five of the papers presented at this meeting were published as a special section of the journal *Wetlands* in December of 2004. This conference was put on in collaboration with faculty at Portland State University.

Participated in the Scientific Consulting Group Lessons Learned workshop in Washington, D.C. October 11-12, 2000 to advise the Environmental Protection Agency STAR grants program on successful approaches to managing interdisciplinary research. Presented a paper and participated in discussions to develop materials that will assist EPA in providing guidance to Principal Investigators of interdisciplinary grants.

Presented results of our interdisciplinary research project for Iowa watersheds to the Illinois EPA and Department of Natural Resources (December 1999; Chicago, IL). This invited presentation assisted these Agencies in the initiation of similar projects to develop alternative future scenarios for river basins in Illinois undergoing rapid development.

Developed a database to support research and education: Developed a wildlife-habitat association database for the Willamette Valley region of Oregon with Paul Adamus, Joan Baker, Denis White. <http://www.fsl.orst.edu/pnwerc/wrb/access.html>

Developed database to support research and education: Developed a plant database for central Iowa for use in assessment of plant biodiversity response to landscape change, based on the USDA PLANTS database maintained by John Kartesz and his staff, then conducted an expert review of the database. The database is being used to evaluate alternative future scenarios for their potential to preserve native plant diversity.

As a student member of the Association for Women in Science at the University of Minnesota, organized and conducted a week-long conference: *Women In Science: Questioning the Traditional Paradigm*, May 21-24 1984 with keynote speakers Vivian Gornick (author) and Dr. Margaret Davis.

COLLABORATORS

Paul Adamus, Adamus Resource Assessment, Inc.; Richard Cruse, Agronomy, Iowa State University; Joseph Eilers, JC Headwaters Inc.; D. A. Foster, Director, Harvard Forest; Rebecca Flitcroft, USFS; Susan Galatowitsch, Horticulture, University of Minnesota; Eville Gorham, University of Minnesota; David Hulse, University of Oregon; Kathryn Lindsay (Freemark), Canadian Wildlife Service, Environment Canada; Ivan Arismendi, John Bolte, Samuel Chan, Roy Haggerty, William Jaeger, Denise Lach, Desiree Tullos, Kellie Vache, Aaron T. Wolf, Oregon State University; Joan Nassauer, Natural Resources, University of Michigan; Steven Polasky, Agriculture and Resource Economics, University of Minnesota; Junjie Wu, Agriculture and Resource Economics, Oregon State University; Denis White, US EPA

SERVICE AS A REVIEWER

- Proposals: National Science Foundation, U.S. Environmental Protection Agency,
National Oceanic and Atmospheric Administration, Environment Canada
- Fellowships: Fulbright Fellowship Screening Committee, Special Fellowships in Water
Management at University of Delft, The Netherlands
Oregon State University Institute for Water and Watersheds
Oregon State University Water Resources Graduate Programs Student
Awards Committee
- Journals: Canadian Journal of Botany
Computers and Electronics in Agriculture
Ecosphere
Ecology and Society
Ecological Engineering
Ecological Modelling
Environmental Management
Environmental Research Letters
Journal of the American Water Resources Association
Journal of Geophysical Research-Biogeosciences
Journal of Vegetation Science
Landscape Ecology
Landscape and Urban Planning
Nature
PeerJ
Restoration Ecology
Wetlands
Sustainability
Water Resources Research
- Books: Reviewed two chapters in *Applying Ecological Principles to Land
Management* for John Wiley and Sons, Ltd.,
Reviewed *The Skeptical Environmentalist* by Bjorn Lomborg for
the journal *Environmental Management*.
Reviewed *The Willamette River Basin: A Planning Atlas* for the Oregon
State University Press.
Reviewed Chapters of *Ecology* textbook for Sinauer Press

SERVICE TO OREGON STATE UNIVERSITY

Faculty advisor to the Hydrophiles student organization, the Student Chapter of the
American Water Resources Association at Oregon State University 2010-present

Member of Task Force on Interdisciplinary Graduate Education Programs at Oregon
State University 2018

Member of Water Resources Task Force, Oregon State University 2015-2018.

Member of Executive Committee for the Oregon State University Institute for Water and Watersheds 2007-present

Seminar committee member, CEOAS 2012-2022

Participant in strategic planning and faculty retreats 2012-2018

ADDITIONAL CONSIDERATIONS FOR EVALUATING RESEARCH PRODUCTIVITY

I worked on ecological consulting projects from 1988-1992, while preparing publications from my dissertation research, which offered flexibility for parenting (I have three children, born in 1988, 1990, and 1994). I returned to academic employment in 1992, initially as a part-time instructor (Biogeography), then as a faculty research associate (0.3 to 0.5 FTE) in 1994, and as Assistant Professor, Senior Research in 1996 (at 0.3 to 0.50 FTE). In 2005, I also became the Director for the Water Resources Graduate Program at 0.25 FTE, increasing to 0.5 FTE in 2012. Evaluation of my research productivity should consider the proportion of time dedicated towards my position as a member of the research faculty at Oregon State University which began in 1996. Because my appointment as a **research faculty** member has always been between 0.3 and 0.5 FTE, my research productivity should be scaled by the appropriate proportion of FTE in order to be accurately evaluated compared to the equivalent years at 1.0 FTE.

PROFESSIONAL REFERENCES

Contact information for three professional references:

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Brent Steel, Department of Political Science, Master of Public Policy Program, Oregon State University, Corvallis, OR 97331
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David Hulse, Director of the Florida Institute for Built Environment Resilience and Professor in Landscape Architecture at the University of Florida.
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