

Dr. Dominique M. BACHELET

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ACADEMIC TRAINING

Ph. D. 1983 Colorado State U., Fort Collins, USA. Botany and Plant Pathology.
DEA 1979 Université de Paris XI, Centre d'Orsay, France. Plant Ecology.
MAITRISE 1978 Université des Sciences et Techniques, Lille I, France. Plant Biology.
LICENCE 1977 Université des Sciences et Techniques, Lille I, France. Plant Biology.
DEUG B 1976 Université des Sciences et Techniques, Lille I, France. Life Sciences.

PROFESSIONAL EXPERIENCE

2020-current **Research Associate**, College of Earth, Ocean and Atmosphere, Oregon State University, Corvallis, USA.
also **Instructor**, College of Agriculture, Dept Food, Science and Technology, also **Co-leader**, Study Abroad Program, Honors College

1998-2020 **Associate Professor, senior research.** Department of Biological and Ecological Engineering. Oregon State University, Corvallis, USA.

2009-2017 **Senior Climate Change scientist**, Global Change Team Leader, Conservation Biology Institute, Corvallis, USA.

2007-2008 **Director** of Climate Change Science, the Nature Conservancy.

2006 **Visiting scientist**, Laboratoire des Sciences du Climat et de l'Environnement, Commissariat à l'énergie atomique, France.

1989-1998 **Assistant Professor.** Department of Bioresource Engineering. Oregon State University, Corvallis, USA.

1995-1996 **Adjunct Professor.** Department of Natural Resources. University of New Hampshire, Durham, USA.

1994-1995 **Visiting scientist.** Centre National de la Recherche Scientifique at Centre d'Etude Spatiale des Rayonnements, Toulouse, France.

1988-1994 **Quantitative Ecologist.** ManTech Environmental Technology Inc., US-EPA Environmental Research Laboratory, Corvallis, USA.

1988 **Research Specialist.** Agronomy Department. New Mexico State University, Las Cruces, USA.

1986-1987 **Research Specialist.** Biology Department. New Mexico State University, Las Cruces, USA.

1984-1986 **Postdoctorate Research.** Assistant in Soil and Environmental Sciences Department. University of California, Riverside, USA.

- 1982 **Teaching assistant.** Agronomy Department, Simulation modeling (AG 653). Colorado State University, Fort Collins, USA.
- 1981-1983 **Research Assistant.** Natural Resource Ecology Laboratory. Colorado State University, Fort Collins, USA.
- 1980 **Teaching Assistant.** Department of Botany and Plant Pathology. (BY 102, 103). Colorado State University, Fort Collins, USA.
- 1980 **Laboratory Technician.** Plant Pathology Department. West Virginia University, Morgantown, USA.

RESEARCH FUNDING

- 2017-2018 Spoilt for choice: a review of downscaled climate datasets for the PNW. **USGS NW CSC.** \$79,690. PI: D. Bachelet
- 2017 Conserving Biodiversity in a Changing Climate. **Charlotte-Martin Foundation.** \$25K. PI: D. Bachelet
- 2016-2019 Tools to bridge the gap between static CMS maps, models and stakeholders. **NASA.** \$152,305. **PI:** R. Kennedy, D. Bachelet.
- 2016-2017 MC2 Dynamics at the 4km scale using CMIP5 climate projections and downscaled MACAv2 dataset for the conterminous United States. **USFS RM.** \$50K. PI: D. Bachelet
- 2015-2020 Climate-smart seedlot selection tool. **USFS PNW.** \$93K. PI: D. Bachelet.
- 2015-2020 CIRC 2.0: Transforming Data into usable knowledge for adapting to climate-related hazards in PNW. **NOAA.** \$65K. PIs: P. Mote, D. Bachelet
- 2015-2017 Collaborative Visualization of Projected Climatic Conditions and Related Risks for the Northwest US. **USFS HUB.** \$33.5K. PI: D. Bachelet.
- 2015 Sagebrush Managers and Climate Change Tools. **GB-LCC:** \$30K. PI: D. Bachelet.
- 2014-2019 Packaging Usable Climate Change Information for Sagebrush Country. **BLM:** \$173K. PI: D. Bachelet.
- 2014-2019 Development of Modeling Tools for Future USGS Biologic Carbon Sequestration Assessment – a Collaborative Proposal. **USGS:** \$340,816. PIs: Z. **Zhu (USGS),** D. Bachelet.
- 2013-2015 Simulating Vegetation Dynamics on local and global scales: the MC1 Dynamic Global Vegetation model. **USFS PNW:** \$74,995. PI: D. Bachelet.
- 2013-2014 Climate Change Vulnerability Assessments and Adaptation Strategies for NW Oregon Forests. **Siuslaw National Forest:** \$35,000. PI: D. Bachelet.
- 2012-2014 Estimating carbon pools and fluxes using a DGVM with prescribed landuse: MC1 contribution to the LandCarbon project. **USGS:** \$324,187. PIs: Z. **Zhu (USGS),** D. Bachelet.
- 2012-2014 Integrated scenarios of climate, hydrology, and vegetation for the Northwest. **NP-CSC:** \$84,983. PIs: P. **Mote & D. Turner (OSU),** D. **Lettenmaier (UW).** KP: D. Bachelet.
- 2012-2014 Projecting Future Effects of Land Management, Natural Disturbance, and CO₂ on Woody Encroachment in the Northern Great Plains in a Changing Climate. (USGS Grant number G12AC20241) **NC-CSC:** \$185,996. PIs: A. **Symstad (USGS),** D. Bachelet.

- 2012-2013 Climate Stress Index using downscaled RPA climate change data and 4th Assessment vegetation projections. **RPA**: \$20,468. PIs: L. **Joyce (USFS)**, C. Flather, D. Bachelet.
- 2012 Comparing alternative approaches for predicting future habitat conditions and distribution patterns for two forest carnivores of conservation concern in the Sierra Nevada of California. **Yale Framework**: \$100,000. PIs: W. **Spencer** and D. Bachelet.
- 2012-2013 Soil Vulnerability to future climate in the Southern Rockies Landscape Conservation Cooperative, with implications for vegetation change and water cycle. **SR-LCC** \$200K PIs: W. **Peterman**, D. Bachelet.
- 2011-2013 Creating a Soil Vulnerability Index to identify drought sensitive areas. **NP-LCC** \$99K PIs: D. Bachelet, W. **Peterman**.
- 2011-2012 Quantitative Forecasting of Above and Below Ground Climate Change Impacts at Wind Cave National Park. PNW Cooperative Ecosystem Studies Unit Task Agreement **National Park Service** (Task agreement: J8W07100052, Coop agreement: H8W0706001): \$163,683. PIs: D. Bachelet, A. **Symstad (USGS)**.
- 2011 Assessing the skill of hydrology models at simulating the water cycle in the HJA: assumptions, strengths and weaknesses. H.J. Andrews **NSF-LTER**: \$10,000. PI: D. Bachelet.
- 2010-2012 ARRA: Prioritize fuel treatments by estimating restoration potential and understanding their effects. **USFS Joint Venture Agreement** PNW 10-JV-11260489-085 for \$249,602. PIs: D. Bachelet, M. **Hemstrom (USFS-PNW)**.
- 2011-2012 MAPSS Legacy in Data Basin. PIs: D. Bachelet, B. van Horne, USFS-PNW. **USFS Joint Venture Agreement** PNW 11-JV-1 1261952-028: \$98,198. PIs: D. Bachelet, B. **van Horne (USFS-PNW)**
- 2010-2011 Multi-scale development and application of dynamic global vegetation models and evaluation with Ameriflux data. Subagreement DA510-B. PIs: B. **Law** and R.P. **Neilson**. **USFS Joint Venture Agreement** PNW 07-JV-11261957-476. \$20,000. PI: D. Bachelet.
- 2009-2011 Method development and application for linking VDDT and MC1: Climatizing state-and-transition models. **USFS Joint Venture Agreement** PNW 09-JV-11261900-003. \$96,539. PIs: D. Bachelet, B. **Kerns (USFS-PNW)**.
- 2009-2011 Consequences of Novel Disturbance Regimes on Climate-Induced Biogeographic Shifts along the Appalachian Trail. **NICCR**. \$17,304. PIs: D. Bachelet, E. **Smithwick (UP)**.
- 2007-2010 Implementation of a Climate-Vegetation Based Early Warning & Prediction System for Interagency Fuels Management. **NOAA**. \$47,512. PIs: D. Bachelet, Tim **Brown (DRI)**, R.P. **Neilson (USFS-PNW)**.
- 2007-2008 Projected Vegetation Changes Over the Next Century in Yosemite National Park Under Three Climate Change Scenarios. **USDI National Park Service**. \$43,588. PIs: D. Bachelet, W. **Kuhn (NPS)**, J. **Panek (CA ARB)**.
- 2006-2007 Climate Change Vegetation Shifts Across Global Ecoregions. **The Nature Conservancy**. \$44,000. PIs: D. Bachelet, R.P. **Neilson (USFS-PNW)**, P. **Gonzalez (TNC)**.

- 2006 Potential Impacts of Climate Change on California Forestry and Natural Landscapes Study. **University of California** \$15,087. PIs: D. Bachelet, R.P. **Neilson**, J.M. **Lenihan** (USFS-PNW).
- 2004-2009 Phase 3 of Dynamic Vegetation Models Development: Including Wetlands. Oregon State University, Corvallis, USA. **USFS** Joint Venture Agreement PNW 04-JV-11261957-329. \$235,535. PIs: D. Bachelet, R.P. **Neilson** (USFS-PNW).
- 2004 VINCERA. Simulating the effect of wildfires on the North American carbon budget with an emphasis on boreal forests. **University of Waterloo, Canada**. \$11,500 PIs: D. Bachelet, R.P. **Neilson** (USFS-PNW) and D. **Price** (Canada).
- 2000-2005 Second phase of Dynamic Vegetation Models development: including human impacts. Oregon State University, Corvallis, USA. **USFS** Joint Venture Agreement 00-JV-11261957-191 PNW for \$493,312. PIs: D. Bachelet, R.P. **Neilson** (USFS-PNW).
- 1995-2000 Development of linked biogeography (MAPSS) and biogeochemistry model (CENTURY) to look at the impacts of global climate change on vegetation distribution and carbon cycling in the USA and in the world. Oregon State University, Corvallis, USA. **USFS** Cooperative Grant Agreement 95-0730 PNW for \$371,362. PIs: D. Bachelet, R.P. **Neilson** (USFS-PNW).
- 1994-1995 Development of a modeling tool to simulate live oak distribution and carbon fluxes in the Mediterranean Basin, CESBIO, Toulouse, France. **CNRS** one-year grant (CDD). PI: D. Bachelet.
- 1988-1994 Assessment of the impacts of enhanced UV-B radiation (due to stratospheric ozone depletion), increased temperature and CO₂ atmospheric concentration on the rice ecosystem in Asia. **ManTech Environmental Technology Inc.** Contract 68-C8-0006 with US-EPA Environmental Research Laboratory, Corvallis, OR.
- 1986-1988 Research and Development of a Generic Desert Ecosystem Model; Department of Biology; New Mexico State University, Las Cruces, USA. **NSF** Grant BSR-85-07380. PI: J.F. **Reynolds**.
- 1984-1986 Research on Nitrogen Fixation, Water Use, and Plant Productivity in Warm Desert Ecosystems; Department of Soil and Environmental Sciences, University of California, Riverside, USA. **NSF** Grant DEB-82-16814. PI: W.M. **Jarrell**.
- 1981-1983 Research on Plant-Animal Interactions in the North American Shortgrass Prairie; Natural Resource Ecology Laboratory, Colorado State University, Fort Collins, USA. **NSF** Grant DEB-80-22380. PI: J.K. **Detling**.
- 1980 Research on White Pine disease in the Appalachian Region; Department of Plant Pathology, West Virginia University, Morgantown, USA.
- 1979 Research on Migratory Grasshoppers from West Africa; Water budget of three types of locusts raised in the laboratory; Departments of Entomology and Plant Ecology, Paris XI, Centre d'Orsay, France. Centre CNRS (Phytotron), Gif sur Yvette, France. PI : B. **Saugier**, Y. **Gillon**.

PUBLICATIONS (First author)

Bachelet, D., K. Ferschweiler, T.J. Sheehan, B.M. Sleeter, Z. Zhu. **2018**. Translating MC2 DGVM Results into Ecosystem Services for Climate Change Mitigation and Adaptation. **Climate** 6(1), 1. doi:[10.3390/cli6010001](https://doi.org/10.3390/cli6010001)

- Bachelet, D., M. Gough, T. Sheehan, B. Baker, K. Ferschweiler, J. Strittholt. **2017**. Climate consoles: Pieces in the puzzle of climate change adaptation. **Climate Services** 8:36-43. <http://dx.doi.org/10.1016/j.cliser.2017.10.001>
- Bachelet, D., K. Ferschweiler, T. Sheehan, J. Strittholt. **2016**. Climate change effects on southern California deserts. **Journal of Arid Environments** 127:17-29. doi:10.1016/j.jaridenv.2015.10.003
- Bachelet, D., K. Ferschweiler, T. Sheehan, B. Sleeter, and Z. Zhu. **2015**. Projected carbon stocks in the conterminous US with land use and variable fire regimes. **Global Change Biology** 21(12):4548-4560. doi: 10.1111/gcb.13048.
- Bachelet, D., B.R. Johnson, S.D. Bridgham, P.V. Dunn, H.E. Anderson, and B.M. Rogers. **2011**. Climate Change Impacts on Western Pacific Northwest Prairies and Savannas. **Northwest Science** 85(2):411-429.
- Bachelet, D., T. Comendant, and J. Strittholt. **2011**. Web platform for sharing spatial data and manipulating them online. **EOS**, Transactions American Geophysical Union 92(14):118-119.
- Bachelet, D., J. Lenihan, R. Drapek, and R. Neilson. **2008**. VEMAP vs VINCERA: A DGVM sensitivity to differences in climate scenarios. **Global and Planetary Change** 64(1-2):38-48.
- Bachelet, D. and D. Price. **2008**. DGVM responses to the latest IPCC future climate scenarios. **Global and Planetary Change**. 64(1-2):1-2.
- Bachelet, D., J. DeBlieu, and B. Baker. **2007**. Climate Change and Conservation. **EOS**, Transactions American Geophysical Union, 88(45): 471.
- Bachelet, D., J.M. Lenihan, R. P. Neilson, R.J. Drapek, and T. Kittel. **2005**. Simulating the response of natural ecosystems and their fire regimes to climatic variability in Alaska. **Canadian Journal of Forest Research** 35:2224-2257.
- Bachelet, D., R. P. Neilson, J.M. Lenihan, and R.J. Drapek. **2004**. Regional differences in the carbon source-sink potential of natural vegetation in the U.S. **Environmental Management** 33 (Supp.#1): S23-S43. doi: 10.1007/s00267-003-9115-4.
- Bachelet, D., R.P. Neilson, T. Hickler, R.J. Drapek, J. M. Lenihan, M.T. Sykes, B. Smith, S. Sitch, and K. Thonicke. **2003**. Simulating past and future dynamics of natural ecosystems in the United States. **Global Biogeochemical Cycles** 17(2): 1045. doi:10.1029/2001GB001508.
- Bachelet, D., R.P. Neilson, J. M. Lenihan, and R.J. Drapek. **2001**. Climate change effects on vegetation distribution and carbon budget in the U.S. **Ecosystems** 4:164-185.
- Bachelet, D., J.M. Lenihan, C. Daly, R.P. Neilson, D.S. Ojima, and W.J. Parton. **2001**. MC, a Dynamic Vegetation Model for estimating the distribution of vegetation and associated carbon and nutrient fluxes, Technical Documentation Version 1.0. USDA Forest Service Pacific Northwest Station, General Technical Report PNW-GTR-508. 95pp.
- Bachelet, D. and R.P. Neilson. **2000**. Chapter 2. Biome redistribution under climate change. pp18-44. In: L.A. Joyce and R. Birdsey (co-editors). USDA Forest Service Global Climate Change Program Highlights: The impacts of climate change on America's forests. USDA Forest Service General Technical Report RMRS-GTR-59.
- Bachelet, D., J.M. Lenihan, C. Daly, and R.P. Neilson. **2000**. Simulated fire, grazing and climate change impacts at Wind Cave National Park, SD. **Ecological Modelling** 134(2-3):229-244.

- Bachelet, D., M. Brugnach, and R.P. Neilson. **1998**. Sensitivity of a biogeography model to soil properties. **Ecological Modelling** 109:77-98.
- Bachelet, D., J. Kern, and M. Tölg. **1995**. Balancing the rice carbon budget in China using spatially distributed data. **Ecological Modelling** 79:167-177.
- Bachelet, D. **1995**. Rice paddy inventory in a few provinces of China using AVHRR data. **Geocarto International** 10:23-38.
- Bachelet, D., A. Herstrom, and D. Brown. **1993**. Design and development of a GIS database to complement simulation models. **Landscape Ecology** 8(2):77-91.
- Bachelet, D. and H.U. Neue. **1993**. Methane emissions from wetland rice areas of Asia. **Chemosphere** 26(1-4):219-237.
- Bachelet, D. and C. Gay. **1993**. The impacts of climate change on rice yield: a comparison of four model performances. **Ecological Modelling** 65:71-93.
- Bachelet, D., J. Kern, and M. Tölg. **1993**. Modeling the rice carbon budget in China using GIS technology. pp 31-53, In: Huang Xuan, Liu Huigo, Zhou Chenghu, Chen Yufeng, Zhang Qiaofeng (Editors), **Proceedings** of the Third International Workshop on Geographic Information System, Beijing, China, August 19-22, 1993, Volume 3. State Key Laboratory of Resources and Environment Information System, Chinese Academy of Sciences.
- Bachelet, D., D. Brown, M. Bohm, and P. Russell. **1992**. Climate change in Thailand and its potential impact on rice yield. **Climatic Change** 21:347-366.
- Bachelet, D. and J. Mailander. **1992**. Rice field inventory using AVHRR data. pp A-1-1-1:A-1-1-10, In: S. Murai (Editor), **Proceedings** of the 13th Asian Conference on Remote Sensing, Ulaanbaatar, Mongolia, October 7-11, 1992.
- Bachelet, D., P. Barnes, D. Brown, and M. Brown. **1991**. Latitudinal and seasonal variation in calculated ultraviolet-B irradiance in the rice-growing regions of Asia. **Photochemistry and Photobiology** 54(3):411.
- Bachelet, D., H.W. Hunt, and J.K. Detling. **1989**. A simulation model of intraseasonal carbon and nitrogen dynamics of blue grama swards as influenced by above- and belowground grazing. **Ecological Modelling** 44:231-252.
- Bachelet, D., H.W. Hunt, and J.K. Detling. **1989**. Simulated carbon and nitrogen dynamics in blue grama swards subject to above- and belowground grazing, irrigation and fertilization. 2. The grazing optimization notion. **Ecological Modelling** 48:83-99.
- Bachelet, D., W.M. Jarrell, and R.A. Virginia. **1986**. Simulation modeling of nutrient cycling in a desert woody legume. **Tree Physiology** 2:205-214.
- Bachelet, D. **1983**. Simulation of carbon and nitrogen distribution in blue grama to represent various kinds of herbivory. **Ph. D. dissertation**, Colorado State University, Fort Collins, USA.

Co-authored:

- Boisramé, G., Brown, T. J., **Bachelet, D. 2022**. Trends in Western US Fire Fuels Using Historical Data and Modeling, **Fire Ecology** 18, 8. doi.org/10.1186/s42408-022-00129-4.
- StClair, B., Richardson, B.A., Stevenson-Molnar, N., Howe, G.T., Bower, A.D., Erickson, V.J., Ward, B., **Bachelet, D.**, Kilkenny, F.F., Wang, T. **2022**. Seedlot Selection Tool and Climate-Smart Restoration Tool: Web-based tools for sourcing seed adapted to future climates. **Ecosphere**. doi.org/10.1002/ecs2.4089.

- Marcos-Martinez, R., J.J. Sánchez, L. Srivastava, N. Soonsawad, D. **Bachelet**. **2022**. Valuing the Impact of Forest Disturbances on the Climate Regulation Service of Western US Forests. **Sustainability** 14(2), 903. doi.org/10.3390/su14020903.
- Sánchez, J.J., L Srivastava, R Marcos-Martinez, D **Bachelet**. **2021**. Economic value of ecosystem service losses resulting from disturbances in western United States forest. **Gen. Tech. Rep. PNW-GTR-992**. Portland, OR: US Department of Agriculture, Forest Service, Pacific Northwest Research Station: 191-228.
- Abatzoglou, J., G. Lasslop, D. **Bachelet**. **2020**. Editorial: Climate, Land Use, and Fire: Can Models Inform Management? **Frontiers in Earth Science** doi.org/10.3389/feart.2020.624171
- Lasslop, G., S. Hantson, S.P. Harrison, D. **Bachelet**, C. Burton, M. Forkel, M. Forrest, F. Li, J.R. Merton, C. Yue, S. Archibald, S. Scheiter, A. Arneth, T. Hickler, S. Sitch. **2020**. Global ecosystems and fire: multi-model assessment of fire-induced tree cover and carbon storage reduction. **Global Change Biology** doi.org/10.1111/gcb.15160
- Hantson, S., D.I. Kelley, A. Arneth, S.P. Harrison, S. Archibald, D. **Bachelet**, M. Forrest, T. Hickler, G. Lasslop, F. Li, S. Mangeon, J.R. Melton, L. Nieradzick, S.S. Rabin, I.C. Prentice, T. Sheehan, S. Sitch, L. Teckentrup, A. Voulgarakis, and C. Yue. **2020**. Quantitative assessment of fire and vegetation properties in historical simulations with fire-enabled vegetation models from the Fire Model Intercomparison Project. **Geoscientific Model Development** 13: 3299-3318. doi.org/10.5194/gmd-13-3299-2020.
- Sheehan, T., and D. **Bachelet**. **2019**. A fuzzy logic decision support model for climate-driven biomass loss risk in western Oregon and Washington. **PLoS ONE** 14(10): e0222051. doi.org/10.1371/journal.pone.0222051.
- Li, F., M.V. Martin, S. Hantson, M.O. Andreae, A. Arneth, G. Lasslop, C. Yue, D. **Bachelet**, M. Forrest, J.W. Kaiser, E. Kluzek, X. Liu, J.R. Melton, D.S. Ward, A. Darmanov, T. Hickler, C. Ichoku, B.I. Magi, S. Sitch, G.R. van der Werf, C. Wiedinmyer. **2019**. Historical (1700–2012) Global Multi-model Estimates of the Fire Emissions from the Fire Modeling Intercomparison Project (FireMIP). **Atmos. Chem. Phys.** 19: 12545–12567.
- Sheehan T, D. **Bachelet**, K. Ferschweiler. **2019**. Fire, CO₂, and climate effects on modeled vegetation and carbon dynamics in western Oregon and Washington. **PLoS ONE** 14(1): e0210989. doi.org/10.1371/journal.pone.0210989.
- Zanocco, C., M. Brown, D. **Bachelet**, M. Gough, T. Mutch, T. Sheehan. **2018**. Great Basin land managers provide detailed feedback about usefulness of two climate information web applications. **Climate Risk Management** 20:78-94. doi.org/10.1016/j.crm.2018.04.001
- Andela, N., D.C. Morton, L. Giglio, Y. Chen, G.R. van der Werf, P.S. Kasibhatla, R.S. DeFries, G.J. Collatz, S. Hantson, S. Kloster, D. **Bachelet**, M. Forrest, G. Lasslop, F. Li, S. Mangeon, J.R. Melton, C. Yue, J.T. Randerson. **2017**. A human-driven decline in global burned area. **Science** 356(6345):1356-1362. doi: 10.1126/science.aal4108.
- Brown, M., and D. **Bachelet**. **2017**. BLM Sagebrush Managers Give Feedback on Eight Climate Web Applications. **Weather Climate Society** 9:39–52. doi: 10.1175/WCAS-D-16-0034.1.
- Rabin, S.S., J.R. Melton, G. Lasslop, D. **Bachelet**, M. Forrest, S. Hantson, F. Li, S. Mangeon, C. Yue, V.K Arora, T. Hickler, S. Kloster, W. Knorr, L. Nieradzick, A. Spessa, G.A. Folberth, T. Sheehan, A. Voulgarakis, I.C. Prentice, S. Sitch, J.O. Kaplan, S.P. Harrison, A. Arneth. **2017**. The Fire Modeling Intercomparison Project (FireMIP), phase 1:

- Experimental and analytical protocols **Geoscientific Model Development Discussions**
doi:10.5194/gmd-2016-237.
- Conklin, D.R., J.M. Lenihan, D. **Bachelet**, R.P. Neilson, and J.B. Kim. **2016**. MCFire Model Technical Description. Gen. Tech. Rep. PNW-GTR-926. Portland, OR. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station.
- Hantson, S., A. Arneeth, S.P. Harrison, D.I. Kelley, I.C. Prentice, S.S. Rabin, S. Archibald, F. Mouillot, S.R. Arnold, P. Artaxo, D. **Bachelet**, P. Ciais, M. Forrest, P. Friedlingstein, T. Hickler, J.O. Kaplan, S. Kloster, W. Knorr, G. Lasslop, F. Li, S. Mangeon, J.R. Melton, A. Meyn, S. Sitch, A. Spessa, G.R. van der Werf, A. Voulgarakis, and C. Yu. **2016**. The status and challenge of global fire modeling. **Biogeosciences** 13:3359-3375. doi:10.5194/bg-13-3359-2016.
- Sheehan, T., D. **Bachelet**, and K. Ferschweiler. **2015**. Projected major fire and vegetation changes in the Pacific Northwest of the conterminous United States under selected CMIP5 climate futures. **Ecological Modelling** 317:16-29.
- Yospin, G.I., S.D. Bridgman, R.P. Neilson, J.P. Bolte, D. **Bachelet**, P.J. Gould, C.A. Harrington, J.A. Kertis, C. Evers, and B.R. Johnson. **2015**. A new model to simulate climate change impacts on forest succession for local land management. **Ecological Applications** 25:226–242.
- Hemstrom, M.A., J.E. Halofsky, D.R. Conklin, J.S. Halofsky, D. **Bachelet**, and B.K. Kerns. **2014**. Chapter 7: Developing Climate-Informed State-and-Transition Models. pp175-202. In: J.E. Halofsky, M.K. Creutzburg, M.A. Hemstrom (editors). Integrating social, economic, and ecological values across large landscapes. Gen. Tech. Rep. PNW-GTR-896. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 206 p.
- King, D.A., D.M. **Bachelet**, A.J. Symstad, K. Ferschweiler, and M. Hobbins. **2014**. Estimation of Potential Evapotranspiration from Extraterrestrial Radiation, Air Temperature and Humidity to Assess Future Climate Change Effects on the Vegetation of the Northern Great Plains, USA. **Ecological Modelling** 297(2015):86-97.
- Peterman, W., D. **Bachelet**, K. Ferschweiler, and T. Sheehan. **2014**. Soil depth affects simulated carbon and water in the MC2 dynamic global vegetation model. **Ecological Modelling** 294:84-93.
- Symstad, A.J., A.J. Long, J.F. Stamm, D.A. King, D.M. **Bachelet**, and P. A. Norton. **2014**. Two approaches for incorporating climate change into natural resource management planning at Wind Cave National Park. Natural Resource Technical Report. NPS/WICA/NRTR-2014/918. National Park Service. Fort Collins, Colorado. Published Report-2216689.
- King, D. A., D.M. **Bachelet**, and A.J. Symstad. **2013**. Climate change and fire effects on a prairie–woodland ecotone: projecting species range shifts with a dynamic global vegetation model. **Ecology and Evolution** 3(15):5076-5097.
- King, D.A., **Bachelet**, D., and A.J. Symstad. **2013**. Vegetation projections for Wind Cave National Park with three future climate scenarios: final report in completion of task agreement J8W07100052: National Park Service National Park Service Natural Resource Technical Report NPS/WICA/NRTR-2013/681, 58 pp.
http://www.cfr.washington.edu/research.cesu/reports/J8W07100052_Final_Report.pdf
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- Cushing, J., and D. **Bachelet** (Invited). Visualization of Terrestrial and Aquatic Systems (VISTAS) Learning about Climate Change on Tribal Trust Lands? **Native Cases Workshop**, 18-19 June **2016**.
- Hantson, S., A. Arneth, S.P. Harrison, D.I. Kelley, S.S. Rabin, D. Kelley, D. **Bachelet**, P. Ciais, M. Forrest, S. Kloster, G. Lasslop, F. Li, S. Mangeon, J.R. Melton, T. Sheehan, and C. Yu. The Status of Global Fire Modeling: Results from the Fire Model Intercomparison Project (FireMIP). Abstract#: GC42C-05. **AGU Fall Meeting**, San Francisco, CA, 12-16 Dec **2016**.
- Sheehan, T., D. **Bachelet**, K. Ferschweiler. Who's driving? Separating Fire, CO₂, and Climate Change Influences on Vegetation and Carbon Dynamics on MC2 Results for Western Oregon and Washington, United States. Abstract#: B41G-0540. **AGU Fall Meeting**, San Francisco, CA, 12-16 Dec **2016**. ePoster:
https://agu.confex.com/agu/fm16/mediafile/Handout/Paper197333/TimSheehanAGU2016_B41G-0540.pdf
- Sheehan, T., D. **Bachelet**, and K. Ferschweiler. Fire in a Changing Climate: Stochastic versus Threshold-constrained Ignitions in a Dynamic Global Vegetation Model. Abstract # A51Q-0345. **AGU Fall Meeting**, San Francisco, CA, 13-18 Dec **2015**.
- Stackpoole, S., D. Butman, E. Stets, R. Striegl, D. **Bachelet**, Z. Zhu, S. Liu. Abstract # GC13F-1221. Dissolved Organic Carbon Fluxes in Rivers of the Conterminous United States:

- Influence of Terrestrial – Aquatic Linkages. **AGU Fall Meeting**, San Francisco, CA, 13-18 Dec **2015**.
- Sheehan, T., D. **Bachelet**, K. Ferschweiler, J. Abatzoglou. The possible futures of PNW ecosystems. Sixth Annual **Northwest Climate Conference**, Coeur D'Alene Nov 3-5, **2015**.
- Brown, M., D. **Bachelet** and T. Sheehan. Developing Usable Climate Tools For Sagebrush Land Managers. **Great Basin Consortium Conference: Climate Programs, Water Limitations, and Geospaces in the Great Basin**, Boise, ID, 17-19 Feb **2015**.
- Zhu, Z., S. Liu, D. **Bachelet**, S. Stackpoole, T. Hawbakker, T. Larson, and B. Reed. Effects of Land Use and Climate on Ecosystem Carbon Balance from a Recent National Assessment. Abstract #B42A-04. **AGU Fall Meeting**, San Francisco, CA, 15-19 Dec **2014**.
- Sheehan, T., M.O. Gough, J. Abatzoglou, K. Ferschweiler, D. **Bachelet**. Utilization of projected climate data in conservation planning decision support models. 98th Annual Meeting of the **Ecological Society of America**, Sacramento, CA, 10-15 August **2014**.
- Spencer, W.D., H.L. Romsos, R. Decagne, T. Sheehan, D. **Bachelet**. A strategy and decision-support framework for conserving an isolated fisher (*Pekania pennanti*) population during an era of change. 98th Annual Meeting of the **Ecological Society of America**, Sacramento, CA, 10-15 August **2014**.
- Sheehan, T., D. **Bachelet**, K. Ferschweiler, M. Gough, J. Abatzoglou. MC2 DGVM regional results. Integrated Scenarios of the Future Northwest Environment Conference, Portland, Oregon, 17 April **2014**.
- Peterman, W. L. and D. **Bachelet**. Using soils in sensitivity analysis for vegetation change models. **AGU Fall Meeting**, San Francisco, CA, 9-13 Dec **2013**.
- Degagne, R.S., D. **Bachelet**, D. Grossman, M. Lundin, and B.C. Ward. Implementation of a Web-Based Spatial Carbon Calculator for Latin America and the Caribbean. **AGU Fall Meeting**, San Francisco, CA, 9-13 Dec **2013**.
- Comendant, T., J.R. Strittholt, B.C. Ward, D. **Bachelet**, D. Grossman, N. Stevenson-Molnar, K. Henifin, M. Lundin, T. Marvin, W.L. Peterman, G.N. Corrigan, and K. O'Connor. Principles and Best Practices Emerging from Data Basin: A Data Platform Supporting Scientific Research and Landscape Conservation Planning. **AGU Fall Meeting**, San Francisco, CA, 9-13 Dec **2013**.
- Flores Cervantes, J.H. J.T. Abatzoglou, K. Hegewisch; D. **Bachelet**, P. Mote, D.P. Lettenmaier. Hydrologic Prediction in the Pacific Northwest: An Integrated Scenarios Approach. **AGU Fall Meeting**, San Francisco, CA, 9-13 Dec **2013**.
- Sheehan, T., D. **Bachelet**, K. Ferschweiler; J.T. Abatzoglou, K. Hegewisch. Wildfire, vegetation change, and carbon: the effect of different projected climate futures on vegetation in the western United States. **AGU Fall Meeting**, San Francisco, CA, 9-13 Dec **2013**.
- King, D.A., D. **Bachelet**, A.J. Symstad. 2013. Modeling drought stress and tree mortality with dynamic global vegetation models. 98th Annual Meeting of the **Ecological Society of America**, Minneapolis, MN, 4-9 August **2013**.
- Symstad A., D.A. King, D.M. **Bachelet**, B. Burkhardt, D. Roddy, G. Schroeder, and D. Swanson. Using a Global Vegetation Model to Plan Local Natural Resource Management. **AGU Fall Meeting**, San Francisco, CA, 3-7 Dec **2012**.
- Comendant, T., J. Strittholt, B. Ward, D. **Bachelet**. 2012. Data Basin: Interactive mapping platform for decision support and science-based learning. **North America Congress for**

- Conservation Biology.** Bridging the gap: connecting people, nature and climate. Oakland, CA, 15-18 July **2012**.
- Osborne-Gowey, J., D. **Bachelet**, G. Mauger, E. Garcia, C. Tague and K. Ferschweiler. Assessing the skill of hydrology models at simulating the water cycle in the HJ Andrews LTER: Assumptions, strengths, and weaknesses. 97th Annual Meeting of the **Ecological Society of America**, Portland, OR, 6-10 August **2012**.
- King, D., D. **Bachelet**, and A. Symstad. Modeling climate change effects on the ecotone between forest and grassland at Wind Cave National Park, South Dakota. 97th Annual Meeting of the **Ecological Society of America**, Portland, OR, 6-10 August **2012**.
- Yospin, G., S. Bridgham, R. Neilson, J. Bolte, D. **Bachelet**, P. Gould, C. Harrington, J. Kertis, J. Merzenich, C. Evers, and B. Johnson. Projections of climate change impacts on forest succession for local land management using a new vegetation model, CV-STM. 97th Annual Meeting of the **Ecological Society of America**, Portland, OR, 6-10 August **2012**.
- Conklin, D., D. **Bachelet**, and J. Bolte. Breaking Out of Gridlock: Simulating Natural Processes on Meaningful Spatial Units. **AGU Fall Meeting**, San Francisco, CA, 5-9 Dec **2011**.
- King, D., D. **Bachelet**, and A. Symstad. Beyond scenario planning: projecting the future using models at Wind Cave National Park (USA). **AGU Fall Meeting**, San Francisco, CA, 5-9 Dec **2011**.
- Osborne-Gowey, J., D. **Bachelet**, G. Mauger, A. Hamlet, E. Garcia, C. Tague, and K. Ferschweiler. Assessing the Skill of Hydrology Models at Simulating the Water Cycle in the HJ Andrews LTER: Assumptions, Strengths, and Weaknesses. **AGU Fall Meeting**, San Francisco, CA, 5-9 Dec **2011**.
- Peterman, W.L., and D. **Bachelet**. Soil vulnerability to future climate in the southwestern USA, with implications for vegetation change and water cycle. **AGU Fall Meeting**, San Francisco, CA, 5-9 Dec **2011**.
- Kerns, B.K., M. Hemstrom, D. **Bachelet**, D. Conklin, J. Halofsky, M. Buonopane, and J. Halofsky. Climate change considerations in VDDT: using output from a dynamic global vegetation model to parameterize a state and transition model. ESSA Technologies, **First State-and-Transition Landscape Modeling Conference**, Portland, OR, 14-16 June **2011**.
- Peterman, W., D. **Bachelet**, and K.A. Bennett. Forecasting pinyon pine vulnerability to climate change using available soil characteristics. **National Workshop on Climate & Forests: Planning tools and perspectives on adaptation and mitigation options**, Flagstaff, AZ, 16-18 May **2011**.
- Kerns, B.K., D. **Bachelet**, D., D. Conklin, M. Hemstrom, M. Buonopane, J. Halofsky, and J. Halofsky. Climatizing state and transition models using a dynamic global vegetation model: tales from the trenches. **US-IALE 26th Annual Symposium**, Portland, OR, 4-6 April **2011**.
- Kerns, B.K., D. **Bachelet**, and M. Buonopane. Vegetation response to climate change: Usable results from SDMs and DGVMs. 94th Annual Meeting of the **Ecological Society of America**, Pittsburgh, PA, 1-6 August **2010**.
- Osborne-Gowey, J., J. Strittholt, J. Bergquist, B.C. Ward, T. Sheehan, T. Comendant, and D.M. **Bachelet**. Data Basin Aquatic Center: expanding access to aquatic conservation data, analysis tools, people and practical answers. **AGU Fall Meeting**, San Francisco, CA, 14-18 Dec **2009**.

- Neilson, R.P., J.M. Lenihan, D. **Bachelet** (presenter), R.J. Drapek, C. Daly, J. Wells, M. McGlinchy, B. Rogers, G. Pinjuv, and P. Gonzalez. Simulation of Terrestrial Ecosystem Dynamics, Past and Future: A Nested Scale Experiment (NeScE), a Mythical Beast. 2nd **NACP All-investigators meeting**, San Diego, CA, 17-20 Feb **2009**.
- Conklin, D.R., D. Bachelet, B. Kuhn, J.A. Panek, and J.W. van Wagtenonk. Potential disappearance of subalpine vegetation from Yosemite. **AGU Fall Meeting**, San Francisco, CA, 15-19 Dec **2008**. eposter: http://www.fs.fed.us/psw/cirmount/meetings/agu/agu2008.shtml/Conklin_agu2008_poster.pdf
- Zganjar, C., E. Girvetz, G. Raber, **D. Bachelet**, and J. Lawler. Conservation and climate – using technology to inform decision-making. Annual meeting of the **International Congress for Conservation Biology**, Convention Center, Chattanooga, TN, 10 July **2008**.
- Baker, B. (presenter), **D. Bachelet**, A. Spessa, K. Thonicke, J. Lenihan, P. Friedligstein, and S. Harrison. Validation of dynamic vegetation-fire model simulations. 4th **IGBP Congress**, Cape Town (S. Africa), 5-9 May **2008**.
- Zganjar, C., J. DeBlieu, **D. Bachelet**, and B. Stanley. Climate Change Database Development and Learning Networks Establishment. **AGU Fall Meeting**, San Francisco, CA, 10-14 Dec **2007**.
- Lenihan, J.M., **D. Bachelet**, R. Neilson, and R. Drapek. Simulated Response of Conterminous United States Ecosystems to Climate Change at Different Levels of Fire Suppression, CO₂, and Growth Response to CO₂. **AGU Fall Meeting**, San Francisco, CA, 10-14 Dec **2007**.
- Neilson, R.P., **D. Bachelet** (speaker), and S.W. Running. Global modeling and prediction of climate-induced forest dieback, 92nd Annual Meeting of the **Ecological Society of America**, San Jose, CA, 1-6 August **2007**.
- Baker, B., **D. Bachelet**, J. Lenihan, and R. Drapek. Simulating the effect of various climate change scenarios on conservation in northwestern Yunnan, PRC. 92nd Annual Meeting of the **Ecological Society of America**, San Jose, CA, 5-10 August **2007**.
- Neilson, R., **D. Bachelet**, (presenter), and S. Running. Global Modeling and Prediction of Climate-induced forest dieback. 92nd Annual Meeting of the **Ecological Society of America**, San Jose, CA, 5-10 August **2007**.
- Lenihan, J. and the **MAPSS Team**. Widespread Dieback of Forests in North America under Rapid Global Warming: Response to the VINCERA Future Climate Scenarios Simulated by the MC1 DGVM. **AGU Fall Meeting**, San Francisco, CA, 5-9 Dec **2005**.
- Baker, B., **D. Bachelet**, C. Daly, M. Jian, R. Moseley, S. Xuezheng, S. Jihua, and A. Shlisky. 2005. Effects of climate change and land management practices in the Hengduan Mountains of northwestern Yunnan, PRC: Options for alpine conservation. **Open Science Conference: Global Change in Mountain Regions**, Perth, Scotland, 2-6 October **2005**.
- Neilson, R.P., J. Lenihan, and **D. Bachelet**. Climate change implications for sagebrush ecosystems. 89th Annual Meeting of the **Ecological Society of America**, Portland, OR, 1-6 August **2004**.
- Lenihan, J.M. and **D. Bachelet**. Simulated effect of climate and fire suppression on area burned and carbon dynamics in the coterminous United States. 89th Annual Meeting of the **Ecological Society of America**, Portland, OR, 1-6 August **2004**.

- Drapek, R.J., J.M. Lenihan, R.P. Neilson, and D. **Bachelet**. Comparing vegetation maps: an alternative to Kappa statistics. 87th Annual Meeting of the **Ecological Society of America**, Tucson, AZ, 4-9 August **2002**.
- Neilson, R.P., S. Running, D. Schimel, D. Ojima, W. Parton, J. Melillo, W.M. Post, A.W. King, T. Kittel, I.C. Prentice, M. Sykes, D. **Bachelet**, P. Thornton, and VEMAP participants. Potential impacts of climate change on carbon sequestration and ecosystems in the conterminous U.S.: Analyses from six VEMAP models. **Global Change Open Science Conference**, Amsterdam, Netherlands, 10-13 July **2001**.
- Drapek, R.J., R.P. Neilson, D. **Bachelet**, J.M. Lenihan, and VEMAP Members. MC1 LAI and vegetation carbon output compared with its progenitor models and with new satellite LAI estimates. 85th Annual Meeting of the **Ecological Society of America**, Snowbird, UT, 6-10 August **2000**.
- Neilson, R.P., D. **Bachelet**, J. Lenihan, R. Drapek, and VEMAP Participants. Potential Impacts of Global Warming on U.S. Ecosystems. Co-sponsored by Yale University and The Nature Conservancy, Washington D.C., 21 September **2000**.
- Neilson, R.P., D. **Bachelet**, J.M. Lenihan, R.J. Drapek, and VEMAP Members. Potential impacts of global warming on U.S. ecosystems. 85th Annual Meeting of the **Ecological Society of America**, Snowbird, UT, 6-10 August **2000**.
- Neilson, R.P., D. **Bachelet**, J.M. Lenihan, R.J. Drapek, and VEMAP Members. The VEMAP Models and Potentially Complex Biosphere-Atmosphere Feedbacks: Is There a Threshold Global Temperature Increase That Could Shift the Biosphere from Negative to Positive Feedback with the Climate System? LTER Workshop: Biogeographical and Biogeochemical Analysis of Climate Variability and Change. Fourth **LTER All Scientists Meeting**, Snowbird, Utah, 2-4 August **2000**.
- Neilson, R.P., D. **Bachelet**, J.M. Lenihan, R.J. Drapek, and VEMAP Members. The VEMAP Models and potentially complex biosphere-atmosphere feedbacks: Is there a threshold global temperature increase shifting the biosphere from negative to positive feedback with the climate system. **AGU Spring Meeting**, Washington, D.C., 30 May- 3 June **2000**.
- Neilson, R.P., D. **Bachelet**, J.M. Lenihan, and R. Drapek. Projected 21st century changes in U.S. ecosystems and water resources: possible threshold responses. 84th Annual Meeting of the **Ecological Society of America**, Spokane, WA, 8-12 August **1999**.
- Lenihan, J.M., D. **Bachelet**, C. Daly, R.P. Neilson, D. Ojima, and H.W. Parton. Simulating broad-scale fire severity in the MAPSS-CENTURY Dynamic Global Vegetation Model. **GCTE-LUCC Open Science Conference on Global Change**, Barcelona, Spain, 14-18 March **1998**.
- Daly, C., J.M. Lenihan, D. **Bachelet**, R.P. Neilson, and D. Ojima. Modeling the effect of global change on vegetation distribution, water balance, and productivity in the Great Plains region. 82nd Annual Meeting of the **Ecological Society of America**, Albuquerque, NM, 10-14 August **1997**.
- Hoff, C., D. **Bachelet**, S. Rambal, R. Joffre, and B. Lacaze. Simulating carbon budget of Mediterranean evergreen oak ecosystems. Comparison with remotely-sensed parameter. **IUFRO Meetings**, Montpellier, France, August **1995**.
- Olszyk, D.M., D. **Bachelet**, M. Johnson, B. McVeety, P. Rygielwicz and D. Tingey. Impact of Global Change on Terrestrial Ecosystems: Frameworks for Evaluating Agroecosystem and Forest Ecosystem Effects. Fifth **Japan NIES-U.S. EPA Workshop on Advances in Risk Assessment and Risk Management**, Tsukuba, Japan, October **1993**.

- Holman, S.R. and D. **Bachelet**. Influence of elevated CO₂ and temperature on wetland rice root dynamics. **International Symposium on Disturbed Climate Vegetation and Foods**, Tsukuba, Japan, 13-17 October **1992**.
- Olszyk, D.M., D. **Bachelet**, K. Heong, K. Ingram, M. Kropff, H.U. Neue, P. Teng, and B. Vergara. The EPA/IRRI Rice Research Program: effects of climate change on the wetland rice ecosystem. **International Symposium Disturbed Climate Vegetation and Foods**, Tsukuba, Japan, 13-17 October **1992**.
- Holman, S.R. and D. **Bachelet**. Influence of elevated CO₂ and temperature on wetland rice roots dynamics and the implications for methane production. 77th Annual Meeting of the **Ecological Society of America**, Honolulu, Hawaii, 9-13 August **1992**.
- Olszyk, D.M., D. **Bachelet**, P. Barnes, D. Brown, S. Holman, K. Ingram, B. Vergara, M. Bonman, F.W.T. Penning de Vries, H. Neue, and K. Heong. Effects of UV-B and Global Climate Change on Rice Production: The EPA/IRRI Cooperative Research Program. *Agronomy Abstracts*, Annual Meeting, p. 44, Poster paper presented at the **ASA, CSSA, SSSA 82nd Annual Meeting**, San Antonio, TX, 21-26 October **1990**.
- Brown, D. and D. **Bachelet**. Application of geographic information system technology for assessing the effects of global climate change and increased UV-B radiation on the rice ecosystem in Asia. 75th Annual Meeting of the **Ecological Society of America**, Snowbird, UT, 29 July - 2 August **1990**.
- Wondzell, S.M. and D. **Bachelet**. Factors affecting the dynamics of shrub and grassland communities in the Northern Chihuahuan desert. 3rd Annual **Landscape Ecology Symposium**. Observations across scales: Function and Management of Landscapes. Univ. of New Mexico, Albuquerque, NM, 16-19 March **1988**.
- Virginia, R.A., W.M. Jarrell, D. **Bachelet**, P.W. Rundel, R. Sharifi, D.H. Kohl, G. Shearer, and E.T. Nilsen. Nitrogen fixation and plant productivity in a California Sonoran Desert wash woodland. *Proceedings of 35th Annual AIBS Meeting*, Colorado State University, Fort Collins, 5-9 August **1984**.

PRESENTATIONS AVAILABLE ON THE WEB

- 2007** Interview on NPR Morning Edition by Louisa Lim, with TNC team member Barry Baker (<http://www.npr.org/templates/story/story.php?storyId=17200108>)
- 2008** Western Wildland Environmental Threat Center - U.S. Forest Service Workshop - Vegetation Models and Climate Change Workshop (https://www.youtube.com/watch?v=cc_Ai5JPEYk)
- 2009** Yosemite Forum (<http://yosemitenews.info/forum/read.php?1,7326,7326>)
- 2011** MC1 Users' Conference (<http://www.fsl.orst.edu/dgvm/agenda.htm>)
- 2011** Webinar on Climate Change Impacts Module, part of ILAP project on INR web site (<http://oregonstate.edu/inr/ilap-webinars> and brief intro to the project: (https://media.oregonstate.edu/media/t/0_58kr2dfe))
- 2012** Webinar - Data Basin webinar series: *Accessing and Utilizing Climate and Impacts Datasets and Tools in Data Basin* (https://www.youtube.com/watch?time_continue=477&v=1xIRKmLUb_4)
- 2013** Guest speaker at the Pacific Northwest Climate Science Conference *Simulating vegetation change, carbon cycling and fire over the western US using CMIP5 climate projections* (<https://www.youtube.com/watch?v=COBWqzBPWzA>)

2013 Webinars - Data Basin webinar series: *Concept, design, use and limitations of a dynamic vegetation model* (<http://consbio.org/products/webinars/concept-design-use-and-limitations-dynamic-vegetation-model>) and *Utilizing Climate and Impacts Information in the Data Basin Climate Center* (<http://consbio.org/products/webinars/data-basin-climate-center-guided-tour>).

2014 Bureau of Land Management Rapid Ecological Assessments: *Status of Climate Modeling* (<https://vimeo.com/96152582>)

2014 (April 17) Integrated Scenarios of the Future Northwest Environment-Workshop: *Climate Change & Ecosystems: Simulating vegetation & fire response for the Western US* (<https://www.youtube.com/watch?v=SHcxLmFePLs>)

2015 Northwest Climate Conference: *So you have data, now what?* (<https://www.youtube.com/watch?v=eUS0iXMD5W8>)

2016 Great Basin LCC webinar: *Is this what you need? Direct feedback helps climate change information exchange* (<https://www.youtube.com/watch?v=U-CjufXBnrI>)

2017 (December 12) OSU Sesquicentennial Oral History Project (<http://bit.ly/2sPqXOC>)

2019 (March 2) Invited speaker at the Public Interest Environmental Law Conference in Eugene, Oregon: *Searching for Common Grounds to Address Climate Change* (https://www.youtube.com/watch?v=GnzfZKHSEk&ab_channel=PublicInterestEnvironmentalLawConferencePIELC)

2020 (June 10) OSU Extension webinar: *Maintaining a healthy forest in an uncertain climate -* (<http://blogs.oregonstate.edu/healthyforestclimate/class-resources/>)

2021 (March) Corvallis Art Guild Invited Speaker: *Art and Climate Change*. (https://www.youtube.com/watch?v=6Q8QldhcIm4&ab_channel=TheArtsCenterCorvall)

2021 (August) Humor for a burning planet – *Carbon, Cows and Cartons ... oh my!* - A conversation with Winston Hodges. (https://www.youtube.com/watch?v=OILuQ_QdDwY&ab_channel=PlanetCents%2CInc.)

2022 (January 18) Eastern Oregon Climate Change Coalition: *Food for Thought* available on Facebook: <https://www.facebook.com/EasternOregonClimateChangeCoalition/>

SYNERGISTIC ACTIVITIES

Presenter / Organizer– Science communication and Training

- **U.S. Fish and Wildlife Service Climate Change science training session** for employees: February 11, **2008**, sponsored by the Univ. of Washington Climate Impacts Group and others, Lacey, WA.
- **U.S. Forest Service Vegetation Models and Climate Change Workshop:** January 23-25, **2008**, Portland, OR (<http://www.fs.fed.us/wwetac/workshops/>).
- **MC1 First Users Conference**, January 11-12, **2011**, sponsored by Conservation Biology Institute and Stratus Consulting, Corvallis OR.
- **Sagebrush Climate Tools Workshop**, December 8, **2016**, sponsored by BLM and Conservation Biology Institute, BLM Idaho State Office, Boise ID.
- **NW Basin and Range Ecosystem Post-Symposium: Sage-Steppe Tools Workshop:** Feb 16, **2017**, sponsored by the Great Basin Landscape Conservation Cooperative, Lakeview, OR.
- Decision Support Tools for Natural Resource Managers in Sagebrush Communities but also more generally across the Pacific Northwest – **Workshop**. Nov 7, **2017**, Bend, OR.

- **BLM Science Forum** webinar – *The Sagebrush Climate Console and the Climate Mapper: Coproduction Efforts to Share Information.* - July 18, **2018**.

General Service

- **Forest Ecosystem and Climate Impacts Expert Workshop**, Tacoma WA, March 17, **2011**, sponsored by National Wildlife Federation, Washington Department of Fish and Wildlife, Climate Impacts Group, PNW Climate Change Vulnerability Assessment.
- Guest speaker for **Olympia Prairie Conservation Groups**, February 12, **2013**.
- Guest speaker for **USFS Climate Change Lunch Club**, Oregon State University, May 21, **2013**.
- Guest speaker for the **Douglas County Global Warming Coalition**, Roseburg (OR), October 30th, **2013**
- Guest speaker for **Emerald Chapter, Society of American Foresters**, Eugene, OR December 17th, **2013**.
- Guest speaker for OSU WRE seminar series (Mary Santelman), Jan 8th, **2014**.
- Guest speaker at **USFW sponsored workshop on Climate Change Adaptation: Planning for climate change at the landscape scale for Clatsop and Tillamook counties**, Oregon, Sep 16th, **2014**.
- Guest speaker for **Mary's River Watershed Council**, Jan 7th, **2015**.
- Guest speaker for **Umpqua Chapter of the Society of American Foresters**, Roseburg, OR, Jan 13th, **2015**.
- Guest speaker for **OSU Classes** April 14th, **2015** (Glenn Howe); May 15th, **2015** (Andreas Schmittner)
- Guest speaker for PNW Tribal climate change network, Aug 19th, **2015**.
- Guest speaker for **OSU seminar series (BEE 507)** Updates for the Corvallis Climate Change Community, "*Developing usable Climate tools for land managers*", September 30th, **2015**.
- Guest speaker for **Healthy Headwaters Leadership** Convening "*Climate Change, Wildfire, Water Supply - What can communities do to prepare?*", Eugene (OR), Oct 16th, **2015**.
- Science Advisory Panel for the **NW Climate Science Center Meeting**, Portland, OR, 3-4 May **2017**.
- STEM Presentation *Climate Change: Learn How Your Favorite Activities Will Change in Our Warming World* to the **AWSEM (Advocates for Women in Science, Engineering, and Math club)**, Corvallis, OR, 20-21 February, **2018**.
- STEM Panel *Women in Forest Science* for the Interdisciplinary **STEM seminar series** in Asheville, NC, 21 March **2018**.
- Guest speaker invited by **Marys Peak Group of the Sierra Club**, the Corvallis-Benton County Library and the Friends of the Library, at the Corvallis Public Library "*Willamette Valley Fire Eco-Dynamics*", Corvallis, OR, 30 April **2019**.
- Guest speaker at **Salem Progressive Films Series** for James Balog's "*The Human Element*" movie (<https://salemprogressivefilms.net/film/tuesday-may-21st-the-human-element/>) Salem, OR, 23-24 May **2019**.
- Guest speaker at **Rotary Club**, "*Wildfires and climate*", Corvallis, OR, 2 August **2019**.

- Guest speaker for **OSU summer class WRP 544: *Managing Natural Resources for Climate Adaptation*** (John Matthews Instructor) on June 20, 2019.
- Guest speaker for class at the **Osher Lifelong Learning Institute** at UNC Asheville “*Good Science Bad Science*” (Hermann Gucinski instructor) on Feb 5, **2020**.
- Guest speaker for **OSU class BEE 301: “*Human Impacts on Ecosystems*”** (Rachel Jones instructor) on February 24, **2020**.
- **OSU Extension Service workshops** “Maintaining a healthy forest in an uncertain climate” as presenter on “*Local Predicted and Observed Effects of a Changing Climate*” – Bandon (OR) Nov 9, **2019**, Tiller (OR) Feb 15, **2020**, online during Covid19 pandemic June 10, **2020**.
(<https://extension.oregonstate.edu/douglas/events/maintaining-healthy-forest-uncertain-climate-webinar-series>).
- Guest speaker for **OSU class BEE 507/607: Seminar series** (Stephen Good, instructor) on January 14, **2021**.
- Guest speaker for **OSU class BI 301: *Human impacts on ecosystems*** (Rachel Jones, instructor) on February 20, **2021**.
- Guest speaker for **Corvallis Art Guild – “*Art and Climate Change*”** – March 1, **2021**
- Guest speaker for **COP26 Mindfulness and Writing session** on November 1, **2021**.
- Guest speaker for the **Eastern Oregon Climate Change Coalition’s** monthly Climate Conversation Program: “*Food for Thought*”, on January 18, **2022**.
- Guest speaker for **OSU class BI 301: *2020 Fire news: Paradigm Shift***, February 15, **2022**
- **Skype a Scientist:** Laurie Schroeder's 5th grade class (8 sessions), Pasco County School in New Port Richey: Feb 18, 23, 24, 25, March 2 and 3, **2022**.
- Lightning Talk hosted by the **OSU Faculty Senate [Carbon Commitment Committee](#)**, April 22, 2022: *Food is the universal language*
- Guest speaker for **OSU class WRP 544: *Managing Natural Resources for Climate Adaptation*** (J. Matthews, instructor) on August 18, **2022**.
- **Skype a Scientist:** Washington D.C. school, October 30, **2022**
- **Skype a Scientist:** March 12, **2023**
- **Skype a Scientist:** September 18, **2023**
- Guest speaker for **Eastern Oregon Climate Change Coalition Climate Conversation Program: *Eat, walk and be climate smart***, April 16, **2024**
- Guest speaker, **Mennonite Village**, Albany, Oregon: *Weather, food and world economics*, July 19, **2024**
- Guest speaker, **Oregon Climate Education Thought Leaders Committee meeting: *Raise awareness, educate and motivate***, Nov 19, **2024**.
- Guest speaker, **Regional Leaders Meeting, Partners for Sustainable Schools: *Raise awareness, educate and motivate***. Dec 4th, **2024**

Art as Science Communication

- “What will Nature do?” Art exhibition at the Corvallis Arts Center, Corvallis, Oregon. Sep. 30 to Nov. 13, **2021**.
- “Imagine the future” Art exhibition at the Benton County Museum, Philomath, Oregon. Jan. 28 to Mar. 5, **2022**

- “Engaging through art” by Steve Frandzel, Thursday, April 21, 2022 (<https://engineering.oregonstate.edu/engaging-through-art>)
- “Corvallis arts center exhibits optimism in climate science” by Allayana Darrow, Oct. 3, 2021 (<https://www.mailtribune.com/top-stories/2021/10/03/corvallis-arts-center-exhibits-optimism-in-climate-science/>)
- “What will Nature do?” – The exhibit by Olivia Goodfriend for the Corvallis Advocate, Oct 11, 2021.

Reviewer for scientific journals: Annals of Forest Science, BioScience, Biogeochemistry, Catena, Climatic Change, Conservation Biology, Ecological Applications, Ecological Modelling, Ecology Letters, Ecosystems, Forest Science, Frontiers in Ecology, Global Biogeochemical Cycles, International Journal of Wildland Fire, Journal of Advances in Modeling Earth Systems, Journal of Hydrology, Landscape Ecology, Nature, Northwest Science, Nutrient Cycling in Agroecosystems, PLOSone, Progress in Physical Science, Soil Science, Science.

Reviewer for National Agencies: USDA National Research Initiative Competitive Grants Program, USDA Fund for Rural America, USDA Managed Ecosystems Program, DOE Program for Ecosystem Research, NASA (review panel member 2016 ROSES), NSF (review panel member 2010-2011 Ecosystems), Western Region’s Water Resources Research Competitive Grants Program, U.S. Civilian Research and Development Foundation.

Contributing author to the Intergovernmental Panel on Climate Change (IPCC) Assessment Reports: Chapter 13. Agriculture in a changing climate: impacts and adaptation. In: Watson et al., Climate Change 1995: Impacts, adaptations and mitigation of climate change: scientific-technical analyses. Published for IPCC 1996, Cambridge University Press.

Contributing author to the 2000 National Assessment. Chapter 17. Potential consequences of climate variability and change for the forests of the United States. In: National Assessment Synthesis Document. 2000. <http://www.usgcrp.gov/usgcrp/nacc/forests/default.htm>

Expert reviewer for the 2007 Intergovernmental Panel on Climate Change (IPCC) Working Group II Fourth Assessment Report. <https://bit.ly/30y816j>. The IPCC was awarded the Nobel Peace Prize in 2007.

Expert reviewer for the 2014 Intergovernmental Panel on Climate Change (IPCC) Working Group II Fifth Assessment Report. <http://www.ipcc-wg2.org/>

Contributing author to the U.S. Global Change Research Program Second State of the Carbon Cycle Report (SOCCR-2). 2017. <http://bit.ly/2oryqhl>

Expert reviewer for the 2021 Intergovernmental Panel on Climate Change (IPCC) Working Group II Sixth Assessment Report.

Contributing author to the 6th Oregon Climate Change Assessment. pp239-244 “Art and Climate Change” and pp245-246 “Regenerative Agriculture”. In: Fleishman, E., editor. 2023. Sixth Oregon Climate Assessment. Oregon Climate Change Research Institute, Oregon State University, Corvallis, Oregon.

Contributing author to the 7th Oregon Climate Change Assessment. pp305-313 “Responses of Oregon’s Wine Industry to Climate Change” and pp 223-231 “Trade-offs in Planting Trees in Urban and Suburban Area”. In: Fleishman, E., editor. 2025. Seventh Oregon

Climate Assessment. Oregon Climate Change Research Institute, Oregon State University, Corvallis, Oregon.

HONORS

- 2023 2023 Ranking of Best Scientists in Ecology and Evolution (4397 in the world and 1584 in United States): <https://research.com/u/dominique-bachelet>
<https://research.com/university/ecology-and-evolution/oregon-state-university>
- 2023 USDA Certificate of appreciation for outstanding contributions to the climate analysis for the 2020 Resources Planning Act Assessment
- 2019 30 Year Services Award Oregon State University
- 2017 Elected **AAAS Fellow** "*for important contributions to the field of climate change science, particularly using simulation modeling of ecosystem response to environmental change.*"
- 2014 25 Year Services Award Oregon State University
- 2009 20 Year Services Award Oregon State University
- 2005 USFS Certificate of appreciation *for exceptional contribution to the VINCERA (Vulnerability and impacts of North American forests to climate change: ecosystems response and adaptation) North American Climate Change project and overall MAPSS team support.* USDA Forest Service PNW Research Station, FSL, Corvallis OR.
- 2004 15 Year Services Award Oregon State University
- 2003 USFS Certificate of appreciation *for outstanding dedication to the US National Assessment of the Ecological Impacts of Global Warming and the production of a world class, peer reviewed legacy in support of the assessment.* USDA Forest Service PNW Research Station, Forestry Sciences Laboratory, Corvallis OR.
- 1999 10 Year Services Award Oregon State University
- 1992 Performance Incentive Program Award - ManTech Env. Technology Inc.

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science
American Geophysical Union
Ecological Society of America
Union of Concerned Scientists

CLASSES TAUGHT AT OSU

- Exploring France's Responses to Climate Change: from COP26 to today and beyond* (Study Abroad Program) – Summer **2022** - HC499-904; Summer **2023** – HC407; Summer 2024 – HC407
- Food and Climate Change* (on-line course) – Winter and Fall **2021**, Fall **2022**, **Winter 2025** – FST 455/555
- Food for Change* (on-line course) - Fall **2019** - ENSC555
- Global Environmental Change: Using data to inform decisions* (on-line course) – Summer, Fall and Winter **2018**, Spring, Fall and Winter **2019**, Spring **2020**, Fall **2021**, Fall **2022** - BEE 411/511
- Art and Science: Lessons Learned During the Process* – Spring **2021** - BEE507

- Reading and Discussion - *Understory hydro-fire-eco dynamics under climate change and invasive species* - Fall **2017** - BEE 505/605
- Reading and Discussion - *Drivers of vegetation cover in the Great Basin* - Spring **2017** - BEE 505
- Fall Seminar Series - *Updates from the Corvallis Climate Change Research Community* - Fall **2015** - BEE 507
- Reading and Discussion - *Savanna vegetation with increasing CO₂: Exploring the grass versus tree tipping point* - Winter **2015** - BEE 501
- Global Environmental Change: Using data to inform decisions* (on-line course) - Spring **2014** - BEE 411/511
- Spring and Fall Seminar Series - *Corvallis Climate Change Modeling Community* - Spring and Fall **2012**, Spring **2013** - BEE 507
- Graduate Research and Publication - Spring **1997, 1998, 1999, 2000** - BRE 507 section 2
- Graduate Student Orientation - Winter **1998** - BRE 507 section 1
- Global Ecology - Spring and Fall **1992** - BRE 551X

OSU STUDENT COMMITTEE MEMBER (*in bold, primary advisor*)

- Marilynn Bartels (M.S., Botany and Plant Pathology, **2000**)
- Maoya Bassiouni (Ph. D., Biological and Ecological Engineering, **2019**)
- Michael Cairns (Ph. D., Botany and Plant Pathology, abandoned **2001**)
- Kevin Carver (M.S., Rangeland and Animal Sciences, **ongoing**)
- David Conklin (Ph. D., Biological and Ecological Engineering, **2009**)
- Kristin Coons (M.S, Forest Engineering, Resources and Management, **2014**)
- Karla Cuero Meyers (PSM, Environmental Sciences, **2020**)
- Melissa Dahl (M.S., Environmental Engineering, **2016**)
- Melissa Drignon (Ph. D., Geology, **2018**)
- Michael Gardner-Brown (PSM, Environmental Sciences, **2020**)
- Akiko Gates (PSM, Environmental Sciences, **2019**)
- Robert (Lance) George (M.S., Forest Science, **2006**)
- Mariah Goldbach (M.S., Environmental Sciences, **2023**)
- Mariah Goldbach (Ph. D., Environmental Sciences, **ongoing**)
- Shauna Gutierrez (PSM, Environmental Sciences, **2020**)
- Charles Hillyer (Ph. D., Biological and Ecological Engineering, **2011**)
- Tara Hudiburg (Ph. D., Forest Ecosystems and Society, **2011**)
- Suphannika Intanon (Ph. D., Crop Science, **2013**)
- Katherine Jacobs (M.S., Forest Science, **2002**)
- Eli Juhl (M.S., Natural Resources [CoF], **2023**)
- Brian Katz (Ph. D., Geography, **2020**)
- Ginny Katz (Ph. D., Geography, abandoned **2022**)
- Jonathan Kehmeier (M.S., Bioengineering, **2000**)
- McKenna Kunes (PSM, Environmental Sciences, **2020**)
- France Lamy (Ph. D., Bioengineering, replaced June **2002**)
- Mark Landon (PSM, Environmental Sciences, **2019**)
- Elizabeth Langford (PSM, Environmental Sciences, **2020**)
- Jennifer Larsen (M.S., Geography, **2005**)

Sara Letton (PSM, Environmental Sciences, **2021**)
Julian Licata (M.S., Forest Science, **2004**; Ph. D., Forest Science, **2007**)
Ashley Meyer (MS, Environmental Science, **2021**)
Patrick McQuarrie (Ph. D., Geosciences, **2011**)
Rozi Mohammed (M.S., Forest Science, **1999**)
Elizabeth (Libby) Morrison (M.S., Geosciences, **2016**)
Bethany Munoz (Ph. D., Forest Engineering, Resources and Management, **2013**)
Tayler Nichols (PSM, Environmental Sciences, **2020**)
Regina O'Kelley (Ph. D. Soil Science, **2023**)
Kristen Overturf (M.S., BioResource Engineering, **1999**)
Wendy Peterman (Ph. D., Forest Engineering, Resources and Management, replaced May **2014**)
Brian Pickard (M.S., Forest Ecosystem and Society, **2013**)
Rochelle Regutti (M.S., Environmental Science, **2020**)
Debbie Reusser (Ph. D., Geosciences, **2010**)
Justine Reynolds (PSM, Environmental Sciences, **2020**)
Erin Rooney (Ph. D., Soil Science, **2022**)
Daniel Sarr (Ph. D., Forest Science, **2004**)
Christina Schlachter (M.S., Environmental Sciences, **2020**)
Tim Sheehan (Ph D., Environmental Sciences, **2019**)
Gaylen Sinclair (Ph. D., Geology, **2019**)
Robert Smith (Ph. D., Botany and Plant Pathology, **2017**)
Carla Stevens (M.S., Biological and Ecological Engineering, **2008**)
Paige Stevens (M.S., Fisheries, Wildlife, and Conservation Sciences, **2023**)
Savanna Thompson (M.S., Environmental Science, **2019**)
Douglas Turk (M.S., Forest Science, **2022**)

POSTDOCTORAL FELLOWS and INTERNS

Christophe Cassen (ENGREF, France, summer **2007**)
Melanie Brown (Undergraduate student, OSU intern, **2014-2015**)
Melanie Brown (CBI Intern, **2015-2016**)
David Conklin (Postdoctoral scholar, Biological and Ecological Engineering, **2009-2010**)
Istvan Dunkl (M.S. Student Göttingburg University, Germany, CBI intern, **2017**)
Yutaka Hagimoto (Postdoctoral fellow, Biological and Ecological Engineering, **2004-2008**)
David King (Postdoctoral scholar, Biological and Ecological Engineering, **2011-2014**)
Mingshi Li (Visiting scientist, China, **2012**)
Sean Moss (Undergraduate intern, **2017-18**)
Colton Shaw ((Undergraduate intern, **2019**)
Brandon Simmons (Evergreen student, TNC intern, **2007**)
Michael Tölg (Postdoctoral scholar, Germany, **1993**)
Li Yu (Postdoctoral scholar, China, **2015-16**)