

## **Meade B. Krosby**

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### **EDUCATION**

Ph.D. 2003-2009 Biology, University of Washington, Seattle, WA

B.S. 1995-1999 Biology, Cornell University, Ithaca, NY

### **PROFESSIONAL APPOINTMENTS**

#### **University Director, Northwest Climate Adaptation Science Center, 2022-present**

Leads a consortium of seven universities, a Tribal college, and an inter-Tribal organization in delivering actionable science to inform Northwest natural and cultural resource management in a changing climate. Manages partnership between the consortium and its federal partner, the US Geological Survey. Oversees training programs to support scientists at all career stages (undergraduate, graduate, postdoctoral, faculty) in building the skills needed to co-create actionable science with management partners. Oversees annual synthesis effort engaging 100 Northwest researchers and resource managers to collaboratively understand emerging climate risks, identify knowledge and capacity gaps, and develop communities of practice. Contributes to coordination and federal relations across the national CASC network.

#### **Senior Scientist, Climate Impacts Group, University of Washington, 2017-present**

Works closely with policymakers, resource managers and communities to provide the science, tools and guidance needed to address climate risks facing people and nature. Leads transdisciplinary teams to conduct applied research on climate impacts and adaptation; develop climate risk assessments and adaptation plans; and build adaptation capacity and communities of practice among scientists, decision makers and communities. Delivers presentations and engages with the media to advance awareness of climate risks and response options. Contributes to organizational leadership and fundraising. Participates in regional, national and international scientific assessments and advisory groups.

#### **Affiliate Faculty, School of Environmental and Forest Sciences, University of Washington, 2024-present**

#### **PREVIOUS APPOINTMENTS**

University Deputy Director, Northwest Climate Adaptation Science Center, 2017-2022

Research Scientist, Climate Impacts Group, University of Washington, 2013-2017

Postdoctoral Researcher, Department of Biology, University of Washington, 2009-2012

### **LEADERSHIP AND SERVICE**

Lead Chapter Author, Biodiversity and Climate Change Assessment – US Geological Survey, Environment and Climate Change Canada, La Comisión Nacional para el Conocimiento y Uso de la Biodiversidad (CONABIO). 2024-2025

Chapter Author, Sixth National Climate Assessment – US Global Change Research Program, 2024-2027

Community Advisory Council – NSF Cascadia Coastlines and Peoples Hazards Research Hub, 2022-present

Leadership Council – Cascadia Partner Forum, 2018-present

Advisory Council for Climate Adaptation Science – US Department of the Interior, 2023-2025  
Advisory Group – National Tribal Resilience Action Database, 2022-2024  
Participant – Puget Sound Salmonid Scenario Planning, NOAA Fisheries, 2020-2021  
North America Policy Committee – Society for Conservation Biology, 2014-2020  
Expert Council on Climate and Environmental Change – Washington Department of Natural Resources, 2014-2016  
Connectivity Conservation Technical Advisory Team – Great Northern Landscape Conservation Cooperative, 2014-2016  
Science Advisory Team – Shared Priority Areas for Riverine Systems in the Columbia Plateau, Arid Lands Initiative, 2015  
Climate Change Task Force – Central Puget Sound Regional Open Space Strategy, 2013-2014  
Steering Committee, Conserving the Stage: Identifying a Resilient Network of Conservation Lands in the Northwest United States – The Nature Conservancy, 2012-2014  
Lead, Climate Change Workgroup – Western Governors' Association Pilot Project for the Arid Lands of Washington, Oregon, and Idaho, 2010-2011  
Topic Advisory Group for Ecosystems, Species, and Habitats – Washington State Climate Change Response Strategy, 2010

## **PUBLICATIONS AND PRODUCTS**

Littlefield, C., Suraci, J., Kintch, J., Callahan, R., Cramer, P., Cross, M., Dickson, B., Duncan, L.A., Fisher, J., Freeman, P., Seidler, R., Wearn, A., Andrews, K., Brocki, M., Dodd, N., Gagnon, J., Johnson, A., **Krosby, M.**, Skroch, M., and R. Sutherland. 2024. Evaluating and elevating the role of wildlife crossings in climate adaptation. *Frontiers in Ecology and the Environment*. e2816. doi.org/10.1002/fee.2816

Hasert, R., Countryman, C., Marchand, A., Poe, M., Avery, K. and **M. Krosby**. 2024. Climate adaptation barriers and needs experienced by Northwest coastal Tribes: Key findings from Tribal listening sessions. A collaborative product of the University of Washington Climate Impacts Group, the Affiliated Tribes of Northwest Indians, and Washington Sea Grant.

Davis, K.T., Wynecoop, M., Rozance, M.A., Swensen, K.B., Lyons, D.S., Dohrn, C., and **M. Krosby**. 2024. Centering socio-ecological connections to collaboratively manage post-fire vegetation shifts. *Frontiers in Ecology and the Environment*. 22(6): e2739. doi.org/10.1002/fee.2739.

Hoecker, T.J., Parks, S.A., **Krosby, M.**, and S. Dobrowski. 2023. Widespread exposure to fire-regime change will transform conifer forests but ecosystem feedbacks may support persistence. *Communications Earth and Environment*. 4(1): 295.

**Krosby, M.**, Bridge, G., Asinas, E.T., and S.A. Hall. 2023. Moving transboundary conservation from Indigenous engagement to Indigenous leadership: Working across borders for a resilient Cascadia. *Parks Stewardship Forum*. 39(1).

**Krosby, M.**, Hasert, R., Kalafatis, S., Askerooth, R., Kuhn, K., and O. Zimmerman. 2023. Rising seas and the coastal squeeze: Managing inland migration of coastal habitats in response to sea level rise. Northwest Climate Adaptation Science Center, University of Washington, Seattle.

Ransom, J.L., Lyons, A.L., Hegewisch, K.C., and **M. Krosby**. 2023. An integrated modeling approach for considering wildlife reintroduction in the face of climate uncertainty: A case for the North Cascades grizzly bear. *Biological Conservation*. 279: 109947.

Blueprint for a Resilient Cascadia: A transboundary adaptation plan for our shared natural systems. 2022. A product of the Cascadia Partner Forum and its collaborators across the transboundary region of Washington and British Columbia. **\*coordinating author**

Shirk, A., Morgan, H., **Krosby, M.**, Raymond, C., Mauger, G. and L. Helbrecht. 2021. Preparing Washington Department of Fish and Wildlife for a changing climate: Assessing risks and opportunities for action. University of Washington Climate Impacts Group.

Morgan, H., **Krosby, M.** 2021. Nooksack Indian Tribe climate change implementation plan for key species and habitats. A collaboration of the University of Washington Climate Impacts Group and the Nooksack Indian Tribe Natural and Cultural Resources Department.

**Krosby, M.**, Davis, K., Rozance, M.A., Bagley, A., Dohrn, C., Lyons, D., Swensen, K., McClure, M. and C. Walls. 2020. Managing post-fire, climate-induced vegetation transitions in the Northwest: A synthesis of existing knowledge and research needs. Northwest Climate Adaptation Science Center, University of Washington, Seattle.

Rozance, M.A., **Krosby, M.**, Meadow, A.M., Snover, A.K., Ferguson, D.B., and G. Owen. 2020. Building capacity for societally engaged climate science by transforming science training. *Environmental Research Letters*. 15: 125008

**Krosby, M.**, and J. Cartwright. 2020. Riparian climate corridors. Pages 99-105 in J. Cartwright, ed. *A guidebook to spatial datasets for conservation planning under climate change in the Pacific Northwest*. U.S. Geological Survey. doi.org/10.5066/P92L1H7O

Roop, H.A., G.S. Mauger, H. Morgan, A.K. Snover, and **M. Krosby**. 2020. Shifting Snowlines and Shorelines: The Intergovernmental Panel on Climate Change's Special Report on the Ocean and Cryosphere and Implications for Washington State. Briefing paper prepared by the Climate Impacts Group, University of Washington, Seattle.

Peterson, D.L., Halofsky, J.E., Morgan, H.A., and **M. Krosby**. 2020. Assessment of natural resource and watershed condition Oregon Caves National Monument and Preserve. Natural Resource Report NPS/ORCA/NRR—2020/2207.

Morgan, H., and **M. Krosby**. 2020. Nooksack Indian Tribe climate change adaptation plan. A collaboration of University of Washington Climate Impacts Group and Nooksack Indian Tribe Natural and Cultural Resource Department.

Littlefield, C., **Krosby, M.**, Michalak, J., and J. Lawler. 2019. Connectivity for species on the move: supporting climate-driven range shifts. *Frontiers in Ecology and the Environment*. 17(5):270-8.

Peterson, D.L., Halofsky, J.E., Morgan, H.A. and **M. Krosby**. 2019. Effects of climate change on vegetation in Oregon Caves National Monument and Preserve. National Park Service, Fort Collins, Colorado.

**Krosby, M.**, Hegewisch, K.C., Norheim, R., Mauger, G., Yazzie, K., H. Morgan. 2018. *Tribal Climate Tool* web tool. Climate Impacts Group and NW Climate Toolbox (<https://climate.northwestknowledge.net/NWTOOLBOX/tribalProjections.php>).

**Krosby, M.**, Theobald, D.M., Norheim, R., and B. McRae. 2018. Identifying riparian climate corridors to inform climate adaptation planning. *PLoS ONE* 13(11): e0205156.

**Krosby, M.**, and H. Morgan. 2018. Colville Tribes natural resources climate change vulnerability assessment. Climate Impacts Group, University of Washington.

Ransom, J.I., **Krosby, M.**, and A. Lyons. 2018. Climate change implications for grizzly bears (*Ursus arctos*) in the North Cascades Ecosystem. Natural Resource Report. NPS/NOCA/NRR—2018/1814. National Park Service. Fort Collins, Colorado.

Petersen, S., Nasser, E., Stone, D., **Krosby, M.**, Morgan, H., Rupp, D., Sharp, D., Dello, K., and L. Whitely Binder. 2017. Shoshone-Bannock Tribes climate change vulnerability assessment and adaptation plan. Shoshone-Bannock Tribes.

Morgan, H., and **M. Krosby**. 2017. Nooksack Indian Tribe natural resources climate change vulnerability assessment. Climate Impacts Group, University of Washington.

Whitely Binder, L., Morgan, H., **Krosby, M.**, Sevigny, J., Summers, A., and T. Neuffer. 2017. Stillaguamish Tribe of Indians natural resources climate change adaptation plan. A collaboration of the Stillaguamish Natural Resources Department and the University of Washington Climate Impacts Group. Seattle, WA.

**Krosby, M.**, Michalak, J., Robbins, T.O., Morgan, H., Norheim, R., Mauger, G., and T. Murdock. 2016. The Washington-British Columbia Transboundary Climate-Connectivity Project: Identifying climate impacts and adaptation actions for wildlife habitat connectivity in the transboundary region of Washington and British Columbia. Climate Impacts Group, University of Washington.

**Krosby, M.**, Morgan, H., Case, M., Whitely Binder, L. 2016. Stillaguamish Tribe natural resources climate change vulnerability assessment. Climate Impacts Group, University of Washington.

**Krosby, M.**, Wilsey, C., Duggan, J., Heinrichs, J., McGuire, J., Nogeire, T., Lawler, J., and J. Tewksbury. 2015. Climate-induced range overlap among closely related species. *Nature Climate Change* 5:883–886. doi:10.1038/nclimate2699

Mauger, G.S., Casola, J.H., Morgan, H.A., Strauch, R.L., Jones, B., Curry, B., Buschlsaksen, T.M., Whitely Binder, L., **Krosby, M.**, and A.K. Snover, 2015. State of knowledge: Climate change in Puget Sound. Report prepared for the Puget Sound Partnership and the National Oceanic and Atmospheric Administration. Climate Impacts Group, University of Washington, Seattle. doi:10.7915/CIG93777D

**Krosby, M.**, Breckheimer, I., John Pierce, D., Singleton, P.H., Hall, S.A., Halupka, K.C., Gaines, W.L., Long, R.A., McRae, B.H., Cosentino, B.L. and Schuett-Hames, J.P., 2015. Focal species and landscape “naturalness” corridor models offer complementary approaches for connectivity conservation planning. *Landscape ecology*, 30, pp.2121-2132.

Washington Wildlife Habitat Connectivity Working Group (WHCWG). 2014. Columbia Plateau climate-gradient corridor analysis addendum: Pinch-points and barriers and restoration opportunities. Washington’s Department of Fish and Wildlife, and Department of Transportation, Olympia, WA. **\*lead author**

Snover, A.K, Mauger, G.S., Whitely Binder, L.C., **Krosby, M.**, and I. Tohver. 2013. Climate change impacts and adaptation in Washington State: Technical summaries for decision makers. State of Knowledge Report prepared for the Washington State Department of Ecology. Climate Impacts Group, University of Washington, Seattle.

Núñez, T., Lawler, J. J., McRae, B. H., Pierce, J., **Krosby, M.**, and J. Tewksbury. 2013. Connecting landscapes to address climate change. *Conservation Biology* 27: 407–416.

Washington Wildlife Connectivity Working Group. 2013. An evaluation of the utility of fine scale, downscaled climate projections for connectivity conservation planning in Washington State.

Washington Departments of Fish and Wildlife, and Transportation, Olympia, WA. \*contributing author

Washington Wildlife Habitat Connectivity Working Group. 2013. Washington Connected Landscapes Project: Columbia Plateau climate-gradient corridors analysis. Washington's Department of Fish and Wildlife, and Department of Transportation, Olympia, WA. \*lead author

**Krosby, M.**, Hoffman, J., Lawler, J., and B. McRae. 2012. Integrating climate change into conservation planning in Washington State, USA. In: *Climate and Conservation: Landscape and Seascape Science, Planning and Action*. C.C. Chester, J.A. Hilty and M.S. Cross, eds. Island Press.

Washington Wildlife Habitat Connectivity Working Group. 2011. Washington Connected Landscapes Project: Climate gradient corridors report. Washington Departments of Fish and Wildlife, and Transportation. Olympia, WA. \*lead author

**Krosby, M.**, Tewksbury, J. J., Haddad, N., and J. Hoekstra. 2010. Ecological connectivity for a changing climate. *Conservation Biology* 24:1686-1689.

**Krosby, M.**, and S. Rohwer. 2010. Ongoing movement of the hermit warbler x Townsend's warbler hybrid zone. *PLoS ONE* 5(11): e14164. doi: 10.1371/journal.pone.0014164.

**Krosby, M.**, and S. Rohwer. 2009. A 2,000 km genetic wake yields evidence for northern glacial refugia and hybrid zone movement in a pair of songbirds. *Proceedings of the Royal Society B* 276:615-621.

#### PUBLICATIONS IN REVIEW

Yazzie, K., Craig, D., Lynn, K., Whyte, K., Cooley, N., Cozzetto, K., Maldonado, J., and **M. Krosby**. *In review*. Improving climate services for Tribes: Recommendations from a national survey of service users and providers. Bulletin of the American Meteorological Society.

#### FUNDED GRANTS

National Oceanic and Atmospheric Administration (\$73,587,134): "The Washington State Coastal Climate Resilience Initiative: Accelerating Implementation of 20 Years of Partnership Efforts." Co-PI (\$3,200,000 to UW) with Washington Department of Ecology and partners. 2024-2029

US Department of the Interior (\$7,400,000): "Northwest Climate Adaptation Science Center – Host, Cycle 2." PI, with J. Boll, S. Dobrowski, A. Flores, S. Heppell, C. Jones, K. Kaiser, P. Loikith, E. Norman, J. Padowski, and J. Rybsyck. 2023-2028

Wilburforce Foundation (\$660,000): "The Cascadia conservation climate adaptation strategy." PI, with the Cascadia Partner Forum. 2019-2025

US Department of the Interior (\$1,018,000): "Northwest Climate Adaptation Science Center: University Host – Year 6." PI, with J. Boll, S. Dobrowski, A. Flores, S. Heppell, K. Kaiser and J. Rybsyck. 2022-2023

National Oceanic and Atmospheric Administration (\$5,400,000): "The Northwest Climate Resilience Collaborative: Centering Frontline Communities in Climate Adaptation Science, Assessments and Solutions" Co-PI, with Jason Vogel et al. 2021-2026

National Climate Adaptation Science Center (\$240,000): "Future of fire in the Northwest: Towards a national synthesis of wildland fire under a changing climate." PI, with Solomon Dobrowski.

Northwest Climate Adaptation Science Center (\$248,000): "A climate alert system for at-risk species." PI, with Andrew Shirk. 2020-2022

Tulalip Tribes (\$70,000): "Analysis of wildfire hazard and vegetation in a changing climate for the Tulalip reservation and off-reservation treaty resources." PI, with Crystal Raymond. 2019

Skagit Environmental Endowment Commission (\$20,000): "Assessing potential climate impacts on grizzly bear carrying capacity in the North Cascades Ecosystem." PI, with A. Lyons and J. Ransom. 2018

Confederated Tribes and Bands of the Yakama Nation (\$16,000): "Yakama range shift modeling for First Foods." PI. 2018

Nooksack Indian Tribe (\$40,000): "Technical support for development of a climate adaptation effort for the Nooksack Tribe." PI. 2018

US Department of the Interior (\$4,500,000): "Northwest Climate Science Center: University Host." Co-PI, with A. Snover, J. Rybsyck, T. DeLuca, A. Flores, and S. Hampton. 2017-2022

Charlotte Martin Foundation (\$25,000): Spatial priorities for Cascadia under climate change. PI, with Andrew Shirk (Co-PI). 2017

Confederated Tribes of the Colville Reservation (\$104,000): "Assessing the climate vulnerability of key species and habitats for the Colville Tribes." PI. 2017

Nooksack Indian Tribe (\$25,000): "Assessing the climate vulnerability of key non-freshwater treaty resources for the Nooksack Tribe." PI. 2017

National Park Service (\$50,000): "Natural resources condition assessment and climate change vulnerability assessment for Oregon Caves National Monument and Preserve." PI, with J. Halofksy (Co-PI). 2016

Shoshone-Bannock Tribes (\$115,000): "Climate change vulnerability assessment and adaptation plan for the Shoshone-Bannock Tribes." Co-PI, with A. Petersen and P. Mote. 2016

Northwest Climate Science Center and Great Basin Landscape Conservation Cooperative (\$243,000): "Building tribal capacity for climate change vulnerability assessment." PI. 2016-2018

Charlotte Martin Foundation (\$25,000): "Online resources for incorporating climate change and connectivity into conservation planning" PI. 2016

Upper Snake River Tribes (\$88,000): "Climate change vulnerability assessment for the aquatic, terrestrial, and tribal enterprise resources in the Upper Snake River watershed of Idaho, Nevada, Oregon, and Wyoming." Co-PI, with A. Petersen and P. Mote. 2015

Wilburforce Foundation (\$45,000): "Habitat connectivity for a changing climate." PI. 2015

Cascadia Partner Forum (\$6,500): "Synthesizing methods for identifying Cascadia conservation priorities under climate change." PI. 2015

Stillaguamish Tribe of Indians (\$117,000): "Stillaguamish Tribe natural resources climate change vulnerability assessment and adaptation plan." PI. 2015

Northwest Climate Science Center (\$198,000): "Creating practitioner-driven, science-based plans for connectivity conservation in a changing climate: A collaborative assessment of climate-connectivity needs in the Washington-British Columbia transboundary region." PI. 2014-2016

Wilburforce Foundation (\$71,700): "Riparian climate corridors: Western Montana extension and transboundary pilot." PI, with D. Theobald (co-PI). 2014

Great Northern Landscape Conservation Cooperative (\$53,000): "Informing connectivity conservation decisions in the transboundary Okanagan-Kettle subregion." Co-PI, with T. Stevens, J. Watkins, P. Singleton, A. Shirk, L. Parrott, R. Holt, L. Robb, G. Kehm. 2014

North Pacific Landscape Conservation Cooperative (\$17,000): "Transboundary climate-connectivity assessment: Integrating products of the Pacific Northwest Vulnerability Assessment." PI. 2013

Great Northern Landscape Conservation Cooperative (\$147,000): "Informing connectivity conservation decisions in the British Columbia–Washington transboundary region and the Columbia Plateau ecoregion." Co-PI, with J. Schuett-Hames, T. Stevens, J. Watkins, R. Holt, G. Kehm, L. Robb, S. Spear, B. Gaines, B. Cosentino, H. Ferguson, R. Finger, M.A. Schroeder, P. Singleton. 2013-2015

Wilburforce Foundation (\$45,000): "Habitat connectivity in a changing climate." PI. 2013

Bureau of Land Management (\$32,000): "Integrating climate change into habitat connectivity modeling for the Columbia Plateau." PI. 2012

North Pacific Landscape Conservation Cooperative (\$10,000): "Transboundary climate-connectivity assessment." PI. 2012

Great Northern and North Pacific Landscape Conservation Cooperatives; Washington Department of Fish & Wildlife; Idaho Department of Fish & Game (\$78,000): "Mapping riparian climate corridors: A pilot for the Western Governors' Association's Crucial Habitats Assessment Tool." PI. 2012

Wilburforce Foundation (\$40,000): "Climate-smart connectivity for the Pacific Northwest." PI. 2012

North Pacific Landscape Conservation Cooperative (\$76,000): "The Washington Connected Landscapes Project: Providing analysis tools for regional connectivity and climate adaptation planning." Co-PI, with B. McRae. 2011

Great Northern Landscape Conservation Cooperative (\$185,000): "The Washington Connected Landscapes Project." Co-PI, with J. Tewksbury, J. Schuett-Hames, K. McAllister, B. McRae, B. Cosentino, and S. Hall. 2011

Wilburforce Foundation (\$25,000): Climate-smart connectivity for the Pacific Northwest. Co-PI, with J.J. Tewksbury. 2011

## **HONORS & AWARDS**

Wilburforce Conservation Leadership Award, 2019

Wilburforce Fellowship in Conservation Science, 2015

University of Washington Green Award, 2014

Federal Highway Administration Environmental Excellence Award, 2011

Kathryn Hahn Writing Fellowship, University of Washington, 2009

Best Student Presentation, North American Ornithological Conference, 2006

Marcia Brady Tucker Travel Award, American Ornithologists' Union, 2006

Best Student Presentation, EVO-WIBO, 2006

National Science Foundation Graduate Research Fellowship, 2004

ARCS Fellowship, 2003

## **SELECTED INVITED PRESENTATIONS AND PANELS**

ClimateTALK Seminar. University of Victoria. Victoria, BC. 2025

Franke College of Forestry. Systems Ecology Seminar. University of Montana. Missoula, MT. 2025

Human-Environment Systems. Department Seminar. Boise State University. Boise, ID. 2025

School of Environmental and Forest Sciences. Department Seminar. University of Washington. Seattle, WA. 2024

Seattle Parks and Recreation. Public Webinar: Climate Change and Seattle Parks. Virtual. 2024

National Tribal Resilience Data Workgroup. Virtual. 2024

Ecological Society of America Annual Meeting. Portland, OR. 2024

Northwest Conservation Philanthropy Fellowship. Virtual. 2024

US Climate Variability and Predictability (CLIVAR) Summit. Seattle, WA. 2023

International Conference on Ecology and Transportation. Virtual. 2023

Suquamish Tribe. Climate Change Workgroup. Virtual. 2023

White House Summit and Workshop on Campus and Community Climate Solutions. Speaker and panelist. Washington, DC. 2023

American Association for the Advancement of Science – Pacific Division, Northwest Scientific Association, Northwest Lichenologists Joint Conference. Bellingham, WA. 2023

Climate Teacher Education Design Institute. University of Washington. Seattle, WA. 2023

Seattle Children's Hospital. Virtual. 2022

Raincoast Conservation Foundation, University of British Columbia, Coexisting with Carnivores Alliance, and University of Victoria. Project TEACH. Virtual. 2022

Olympic Coast National Marine Sanctuary. Virtual. 2022

Foster School of Business. Climate Finance Roundtable. University of Washington. Virtual. 2021

Northwest Straits Commission. Virtual. 2021

National Academies of Sciences, Engineering, and Medicine's Board on Environmental Change and Society (BECS). Meeting on Co-Production of Environmental Knowledge. Virtual. 2021

Washington Climate Assembly. Virtual. 2021

Nez Perce Tribe. Climate Smart Restoration Workshop. Virtual. 2021

North American Congress on Conservation Biology. Denver, CO. 2020

Surfrider Foundation – Seattle Chapter. Virtual. 2020

Northwest Indian Fisheries Commission. Climate Change Meeting. Suquamish, WA. 2020

Seattle Aquarium. Virtual. 2020

Seattle Foundation. Climate Adaptation and Resilience Panel. Seattle, WA. 2019

National Center for Training in Conservation and National Climate Adaptation Science Center. Virtual. 2019

Doris Duke Foundation. Washington, DC. 2019

League of Women Voters. Climate Change Forum. Seattle, WA. 2019

Tribes and First Nations Climate Summit. Spokane, WA. 2019

National Adaptation Forum. Madison, WI. 2019

North American Congress on Conservation Biology. Toronto, CA. 2018

Climate Science on Tap. Seattle, WA. 2018



University of Washington. Whole U Seminar: Climate Change and Impacts on the Pacific Northwest. Seattle, WA. 2018

Affiliated Tribes of Northwest Indians and University of Washington Information School. Tribal Water Summit. University of Washington. Seattle, WA. 2018

The Wildlife Society Annual Meeting. Albuquerque, NM. 2017

Woodland Park Zoo. Seattle, WA. 2017

National Adaptation Forum. St. Paul, MN. 2017

Confederated Tribes of the Colville Reservation. Climate Change Steering Committee. Virtual. 2017

Department of Fisheries and Wildlife. Departmental Seminar. Oregon State University. Corvallis, OR. 2016

US Forest Service. Region 6 Wildlife Program. Virtual. 2016

IUCN World Conservation Congress. Honolulu, HI. 2016

British Columbia Ecosystems Program Meeting. Keynote Presentation. Victoria, BC. 2016

Washington Fish and Wildlife Commission. Olympia, WA. 2016

DOI Northwest Climate Science Center. Climate Bootcamp. Pack Forest, WA. 2015

Osoyoos Lake Water Science Forum. Osoyoos, BC. 2015

Pacific Science Center. Seattle, WA. 2014

Wenatchee River Institute. Leavenworth, WA 2014

Mercer Slough Environmental Education Center, Bellevue, WA. 2014

Sky Islands Alliance. Regional Climate Adaptation Workshop. Tucson, AZ. 2013

Washington Department of Fish & Wildlife, Olympia, WA. 2013

Pacific Islands Climate Change Cooperative. Decision Support Systems and Tools for Managing Climate Change Impacts. Honolulu, HI. 2012

The Nature Conservancy. Portland, OR. 2012

North Cascades Adaptation Partnership. Seattle, WA. 2012

Arid Lands Initiative. Ellensburg, WA. 2012

Climate Change and Wildlife Workshop. Portland, OR. 2011

British Columbia Biodiversity Adaptation and Carbon Conservation Workshop. Vancouver, BC. 2011

School of Forest Resources. Department Seminar. University of Washington. Seattle, WA. 2010

International Congress for Conservation Biology. Edmonton, AB. 2010

The Wildlife Society Annual Meeting. Snowbird, UT. 2010

Department of Biology. Department Seminar. Pacific Lutheran University. Tacoma, WA. 2009

### **SELECTED WORKSHOPS AND SYMPOSIA ORGANIZED**

Workshop: *University-Based Climate Service for the Public Good*. Co-organizer and presenter in collaboration with Bob Kopp, Rutgers University. 2025

Workshop: *Accessing More Funding for Your Climate Change Program*. Co-organizer and presenter (with C. Jones), hosted by Bureau of Indian Affairs in collaboration with Affiliated Tribes of Northwest Indians. 2022-2024

Workshop: *White House Forum and Workshop on Campus and Community-Scale Climate Change Solutions*. Technical Organizing Committee and presenter. 2023

Workshop: *Rising Seas and the Coastal Squeeze: Managing Inland Migration of Coastal Habitats in Response to Sea Level Rise*. Organizer, in collaboration with NOAA Northwest Fisheries Science Center, NW Climate Adaptation Science Center, Oregon State University, Shoalwater Bay Indian Tribe, and US Fish and Wildlife Service. 2023

Workshop: *Adapting Conservation in a Changing Climate: An Advanced Communication Workshop*. Seattle, WA. Lead scientist, in collaboration with COMPASS. 2020

Workshop: *Ecological Transformation Now? Managing Post-fire Vegetation Change in a Warming Climate*. Organizer, in collaboration with Bureau of Land Management, NW Climate Adaptation Science Center, University of Montana, US Forest Service and USDA Northwest Climate Hub. 2020

Workshop: *Tribal Climate Camp*. Flathead Biological Station, MT. Invited instructor and presenter, in collaboration with Affiliated Tribes of Northwest Indians and NW Climate Adaptation Science Center. 2019

Workshop: *Building Tribal Capacity for Climate Change Vulnerability Assessment*. Pendleton, OR; Olympia, WA; Carson City, NV. Organizer and facilitator. 2018

Workshop: *Adaptation Speed Dating: Connecting Climate Scientists and Practitioners*. Northwest Climate Conference, Skamania Lodge, WA. Organizer and facilitator. 2016

Symposium: *Beyond science communication: How managers, policy makers, and scientists can co-produce actionable science for better conservation outcomes*. North American Congress of Conservation Biology, Madison, WI. Co-Organizer (with J. Montambault and P. Beier) and speaker. 2016

Symposium: *Connectivity, corridors, and communication*. North American Congress of Conservation Biology. Madison, WI. Co-Organizer, with N. Haddad. 2016

Workshop: *Adaptation Speed Dating: Connecting Climate Scientists and Practitioners*. Northwest Climate Conference, Coeur D'Alene, ID. Organizer and facilitator. 2015

Workshop: *Promoting Effective Engagement between Science and Practice*. University of Washington, Seattle, WA. Co-Organizer (with D. Parsons), speaker, and facilitator, in collaboration with Society for Conservation Biology. 2015

Symposium: *Supporting Climate-Informed Decision-Making in Natural Resource Management: Innovative New Tools and Approaches from Western North America*. National Adaptation Forum, St. Louis, MO. Organizer and speaker. 2015

Symposium: *Conservation planning under climate change: Emerging adaptation approaches to bridge ecological and political boundaries*. Society for Conservation Biology, Missoula, MT. Co-Organizer (with D. Theobald) and speaker. 2014

Workshop: *Puget Sound Connectivity*. Wilburforce Foundation, Seattle, WA. Organizer (with J. Watkins and K. Penrod) and speaker. 2014

Symposium: *Connectivity Conservation Planning Across Political Borders*. The Wildlife Society, Portland, OR. Organizer (with J. Watkins) and speaker. 2012

Symposium: *Landscape Planning, Species Ranges, and Climate Change*. Ecological Society of America, Pittsburgh, PA. Organizer (with J. Tewksbury and N. Haddad) and speaker. 2010

Workshop: *Connectivity and Climate Change Adaptation - Moving from principle to practice*. University of Washington, Seattle, WA. Organizer (with J. Tewksbury) and facilitator. 2009

## TEACHING

### COURSES TAUGHT

*Climate Science Seminar: The Theory and Practice of Linking Knowledge with Action to Address Modern Environmental Challenges*. UW SMEA 550; 2-credit graduate course, 20 students. 2017, 2022

*Conservation Biology* UW BIOL 476; 5-credit undergraduate course, 100 students. 2013-2015

*Natural History of Birds* UW BIOL 444. 5-credit undergraduate course, 20 students. 2019

### INVITED GUEST LECTURES

#### HARVARD UNIVERSITY

Climate Migration, SES 5518, 2025

#### UNIVERSITY OF WASHINGTON

Ecology in the Age of Climate Change, SEFS 521, 2025

Climate Governance ENVIR/SMEA 201, 2022-2025

Exploring the Atmospheric Sciences ATM S 220, 2022-2024

SEFS and the Yakama Nation ESRM 421/SEFS 521, 2017-2022

Current Research in Climate Change ATM S/ESS/OCEAN 586, 2022

Conservation Biology BIOL 476, 2007- 2010, 2021

Indigenous Approaches to Climate Adaptation SMEA 550, 2020

Climate and Climate Change ATMS 211, 2019-2020

Global Warming: Understanding the Issues ATMS 111, 2018-2020

Climate Impacts on the Pacific Northwest ENVIR 585, 2011

The Ecology of Climate Change BIOL 497, 2010

Foundations in Evolution and Systematics BIOL 354, 2006

## RESEARCH SUPERVISION AND MENTORING (ALL UW)

### POST-DOCTORAL FELLOW SUPERVISION

Tyler Hoecker, PhD (co with Solomon Dobrowski), 2021-2023

Mary Ann Rozance, PhD (co with Amy Snover), 2019-2021

### GRADUATE STUDENT COMMITTEE MEMBER

Kimberly Yazzie, School of Aquatic and Fisheries Sciences (PhD) 2020-2022

### OTHER RESEARCH MENTORING (RESEARCH SCIENTISTS, RESEARCH COORDINATORS)

Eva Colberg, Scott Kalafatis, Harriet Morgan, Robert Norheim, Andrew Shirk, Noelani Villa

## MANUSCRIPT REVIEWS

*Auk*

*Biological Conservation*

*Conservation Biology*

*Conservation Letters*

*Conservation Science and Practice*

*Global Change Biology*

*Journal of Applied Ecology*

*Journal of Biogeography*

*Journal of Evolutionary Biology*

*Landscape Ecology*

*Methods in Ecology and Evolution*  
*Molecular Ecology*

## **GRANT REVIEWS**

### *GRANT PANELS*

National Science Foundation (Established Program to Stimulate Competitive Research (EPSCoR))

Northwest Climate Adaptation Science Center

### *AD HOC REVIEWS*

University of Washington Royalty Research Fund

## **MEDIA APPEARANCES**

*Lakes region restoration project aims to link conservation lands from Maine to New Hampshire.* Inside Climate News. April 13, 2025. <https://insideclimatenews.org/news/13042025/maine-magalloway-river-ecosystem-restoration/>

*Trump's DEI purge comes at a cost to Indigenous communities.* Scientific American. February 6, 2025. <https://www.scientificamerican.com/article/trumps-dei-purge-comes-at-a-cost-to-indigenous-communities/>

*They came to Asheville looking for a 'climate haven.' Then came Hurricane Helene.* National Public Radio. October 9, 2024. <https://www.npr.org/2024/10/09/nx-s1-5137024/climate-haven-hurricane-helene-asheville>

*Report outlines struggles, successes Pacific Northwest coastal tribes face in adapting to climate change.* Oregon Public Broadcasting. September 12, 2024. <https://www.opb.org/article/2024/09/12/think-out-loud-tribes-pacific-northwest-coast-climate-change/>

*Trying to escape sea-level rise, Northwest coastal tribes are drowning in paperwork.* High Country News. August 27, 2024. <https://www.hcn.org/articles/northwest-coastal-tribes-are-drowning-in-paperwork-trying-to-escape-sea-level-rise/>

*Report finds barriers for NW coastal tribes responding to climate change.* Public News Service. August 21, 2024. <https://www.publicnewsservice.org/2024-08-21/environmental-justice/report-finds-barriers-for-nw-coastal-tribes-responding-to-climate-change/a91939-1>

*Climate change is already reshaping PNW shorelines: Tribal nations are showing how to adapt.* Seattle Times. August 20, 2024. <https://www.seattletimes.com/seattle-news/climate-lab/climate-change-is-already-reshaping-pnw-shorelines-tribal-nations-are-showing-how-to-adapt/>

*Pacific Northwest tribes are battered by climate change but fight to get money meant to help them.* Associated Press. August 12, 2024. <https://apnews.com/article/pacific-northwest-tribes-climate-change-report-funding-df5bb68ad8eabbe304712161d8d77b77>

*Grizzlies are returning to WA's North Cascades. How will that work?* Seattle Times. May 6, 2024. <https://www.seattletimes.com/seattle-news/climate-lab/grizzlies-are-returning-to-was-north-cascades-how-will-that-work/>

*Tribal leaders host summit to share climate change stories, solutions.* Seattle Times. April 22, 2024. <https://www.seattletimes.com/seattle-news/climate-lab/tribal-leaders-host-summit-to-share-climate-change-stories-solutions/>

*Study finds warming climate may improve North Cascades grizzly bear habitat.* Seattle Times. February 26, 2023. <https://www.seattletimes.com/nation-world/study-finds-warming-climate-may-improve-north-cascades-grizzly-bear-habitat/>

*Study: North Cascades grizzlies could gain more habitat as the climate warms.* Oregon Public Broadcasting. February 17, 2023. <https://www.opb.org/article/2023/02/17/study-north-cascades-grizzlies-could-gain-more-habitat-as-the-climate-warms/>

*Resilient wildlife crossings crucial as climate changes, experts say.* Public News Service. February 15, 2023. <https://www.publicnewsservice.org/2023-02-15/environment/resilient-wildlife-crossings-crucial-as-climate-changes-experts-say/a82943-1>

*Seattle is very thirsty right now.* KUOW. September 21, 2022. <https://www.kuow.org/stories/the-northwest-is-very-thirsty>

*Heat wave serves WA a lesson in climate adaptation, mitigation.* Seattle Times. July 29, 2022. <https://www.seattletimes.com/seattle-news/environment/heat-wave-serves-wa-a-lesson-in-climate-adaptation-mitigation/>

*The scientists who switched focus to fight climate change.* Nature. July 26, 2022. <https://www.nature.com/articles/d41586-022-02047-6>

*Floods cut off Seattle from the rest of the U.S.* Reuters. January 9, 2022. <https://www.youtube.com/watch?v=f3oSU3WoOT0>

*For the Northwest, climate change was hard to ignore in 2021.* KUOW. December 28, 2021. <https://www.kuow.org/stories/climate-change-was-hard-to-ignore-for-the-northwest-in-2021>

*Famously soggy Seattle sees its wettest fall on record.* Associated Press. December 3, 2021. <https://apnews.com/article/science-environment-and-nature-seattle-weather-bellingham-ef26f2e09054e55e38cce0415a76daeb>

*Big Northwest floods a 'dress rehearsal' for a hotter climate.* KUOW. November 18, 2021. <https://www.kuow.org/stories/big-floods-a-dress-rehearsal-for-a-hotter-climate>

*How climate change 'loads the dice' for heat waves.* NBC News. June 29, 2021. <https://www.nbcnews.com/science/environment/heat-wave-west-coast-hints-climate-change-scientists-say-rcna1297>

*Washington scientist hopeful after President Biden's first executive orders address climate change.* KING5. January 20, 2021. <https://www.king5.com/article/tech/science/environment/bidens-first-executive-orders-address-climate-change-environmental-issues/281-fc306f30-af24-4d00-9acd-4affd72661b3>

*For tribes, climate change fight is about saving culture.* Everett Herald. January 4, 2021. <https://www.heraldnet.com/news/for-tribes-climate-change-fight-is-about-saving-culture/>

*An ancient people with a modern climate plan.* Washington Post. November 24, 2020. <https://www.washingtonpost.com/climate-solutions/2020/11/24/native-americans-climate-change-swinomish/>

*Locals react to Jeff Bezos' \$10 billion pledge to fight climate change.* KOMO News. February 18, 2020. <https://komonews.com/news/local/locals-react-to-jeff-bezos-10-billion-pledge-to-fight-climate-change>

*How native tribes are taking the lead on planning for climate change.* Yale Environment 360. February 11, 2020. <https://e360.yale.edu/features/how-native-tribes-are-taking-the-lead-on-planning-for-climate-change>

*How to throw a low-carbon footprint holiday dinner party.* KUOW. December 20, 2019. <https://www.kuow.org/stories/how-to-throw-a-low-carbon-holiday-dinner-party>

*How tribes are harnessing cutting-edge data to plan for climate change.* Yes! Magazine. March 29, 2019. <https://www.yesmagazine.org/environment/2019/03/29/indigenous-tribes-plan-adapt-climate-change>

*Climate change forces wildlife to change migration routes in Northwest.* KING5. March 18, 2019. <https://www.king5.com/article/news/wildlife-escape-routes-mapped-in-the-northwest/281-1c560505-2871-40ca-86d6-6de0b923d7f8>

*'He gets to decide': President escalates his fight against climate science.* Washington Post. March 3, 2019. [https://www.washingtonpost.com/politics/he-gets-to-decide-trump-escalates-his-fight-against-climate-science-ahead-of-2020/2019/02/28/6e12dbbc-3aa3-11e9-a2cd-307b06d0257b\\_story.html](https://www.washingtonpost.com/politics/he-gets-to-decide-trump-escalates-his-fight-against-climate-science-ahead-of-2020/2019/02/28/6e12dbbc-3aa3-11e9-a2cd-307b06d0257b_story.html)

*Tribes use Western and Indigenous science to prepare for climate change.* Hakai Magazine. February 20, 2019. <https://hakaimagazine.com/news/tribes-use-western-and-indigenous-science-to-prepare-for-climate-change/>

*We can change course on climate change by moving from despair to action.* Seattle Times. October 11, 2018. <https://www.seattletimes.com/opinion/we-can-change-course-on-climate-change-by-moving-from-despair-to-action/>

*Drought of 2015 called 'dress rehearsal' for future local impact of climate change.* Times Chronicle. October 15, 2015. <https://www.timeschronicle.ca/drought-of-2015-called-dress-rehearsal-for-future-local-impact-of-climate-change/>

*Climate change-induced wave of hybrid species 'not so much of a problem'.* International Business Times. July 6, 2015. <https://www.ibtimes.co.uk/climate-change-induced-wave-hybrid-species-not-so-much-problem-1509551>

*Hybrid animals like 'grolar bears' not expected to be common consequence of climate change.* Science. July 6, 2015. <https://www.science.org/content/article/hybrid-animals-grolar-bears-not-expected-be-common-consequence-climate-change>

13 April 2025