

# Kevin D. Bladon, PhD

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## Research Profile

- Primary research interests focused on linking hillslope-, stand-, and catchment-scale hydrological and biogeochemical processes to catchment-scale responses following forest disturbances (e.g., wildfire, drought, insects, pathogens, forest harvesting). In particular, research is focused on the effects of wildfire and post-fire land management responses on soil hydraulic properties (hydraulic conductivity, sorptivity, soil moisture), surface hydrology (water yields, peak flows, timing of flows), water quality (physical, chemical, and biological), and aquatic ecology in forested headwater catchments.
- h-index: 30 (Google Scholar), 24 (Scopus), 23 (Web of Science)
  - Google Scholar: <https://scholar.google.com/citations?user=w3daILIAAAAJ&hl=en&oi=ao>

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## Professional Experience

DEPARTMENT HEAD Department of Forest Ecosystems and Society, Oregon State University, Corvallis, OR	2023-Present
ASSOCIATE DEPARTMENT HEAD Department of Forest Engineering, Resources, and Management, Oregon State University, Corvallis, OR	2021-2023
ASSOCIATE PROFESSOR – FOREST ECOHYDROLOGY AND WATERSHED SCIENCE Department of Forest Engineering, Resources, and Management, Oregon State University, Corvallis, OR	2020-Present
ASSISTANT PROFESSOR – FOREST ECOHYDROLOGY AND WATERSHED SCIENCE Department of Forest Engineering, Resources, and Management, Oregon State University, Corvallis, OR	2014-2020
RESEARCH ASSOCIATE – ECOHYDROLOGY/WATERSHED HYDROLOGY Department of Renewable Resources, University of Alberta, Edmonton, AB	2012-2014
ASSISTANT PROFESSOR (3-YEAR TERM) – ECOHYDROLOGY Department of Natural Resource Sciences, Thompson Rivers University, Kamloops, BC	2009-2012
RESEARCH & EXTENSION SPECIALIST – WATERSHED MANAGEMENT FORREX Forum for Research & Extension in Natural Resources, University of British Columbia, Kelowna, BC	2008-2009
POSTDOCTORAL FELLOW – ECOHYDROLOGY Department of Renewable Resources, University of Alberta, Edmonton, AB	2007-2008
NATURAL RESOURCE PLANNER – FOREST HYDROLOGY Silvacom Consultants Ltd., Edmonton, AB	2006-2007
RESEARCH ASSISTANT Centre for Enhanced Forest Management, University of Alberta, Edmonton, AB	2001-2002
RESEARCH ASSISTANT MCH Forestry Ltd., Hinton, AB	1999-2000

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## Education and Knowledge Development

WATERSHED MANAGEMENT CERTIFICATE	2007-2009
Institute for Resources, Environment and Sustainability, University of British Columbia, Vancouver, BC	
<ul style="list-style-type: none"> <li>• Integrated, Forest, Agricultural, and Urban Watershed Management</li> </ul>	
PhD (FOREST HYDROLOGY / ECOHYDROLOGY)	2002-2006
Department of Renewable Resources, University of Alberta, Edmonton, AB	
<ul style="list-style-type: none"> <li>• Dissertation addressed terrestrial-atmospheric coupling of evapotranspiration by several economically important boreal mixedwood tree species (<i>Populus tremuloides</i>, <i>Populus balsamifera</i>, <i>Betula papyrifera</i>, <i>Picea glauca</i>) in response to microclimate change.</li> <li>• Professors: Victor J. Lieffers and Uldis Silins</li> </ul>	
BSc (WITH DISTINCTION)	1999-2002
Environmental and Conservation Sciences (Land Remediation and Reclamation), Department of Renewable Resources, University of Alberta, Edmonton, AB	
COMMUNICATIONS DIPLOMA	1991-1993
School of Business and Media, British Columbia Institute of Technology, Burnaby, BC	

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## Refereed Journal Articles (\* students)

- Beyene, M.T., Leibowitz, S.G., Dunn, C.J., and **Bladon, K.D.** 2023. To burn or not to burn: An empirical assessment of the effects of wildfires and prescribed fires on trace element concentrations in Western US streams. *Science of the Total Environment*. 863: 160731. doi: 10.1016/j.scitotenv.2022.160731.
- Graham, E.B. Song, H.-S., Grieger, S., Garayburu-Caruso, V., Stegen, J., **Bladon, K.D.**, and Myers-Pigg, A. 2023. Potential bioavailability of pyrogenic organic matter resembles natural dissolved organic matter pools. *Biogeosciences*. doi: 10.5194/egusphere-2022-194.
- \*Jarecke, K.M., Hawkins, L.R., **Bladon, K.D.**, and Wondzell, S.M. 2023. Forest carbon uptake is more sensitive to increased vapor pressure deficit than reduced rainfall in the West Cascades of Oregon. *Agricultural and Forest Meteorology*. 329: 109267. doi: 10.1016/j.agrformet.2022.109267.
- \*Miralha, L., \*Wissler, A.D., **Bladon, K.D.**, and Segura, C. 2023. Characterizing stream temperature hysteresis in forested headwater streams. *Hydrological Processes*. e14795. doi: 10.1002/hyp.14795.
- \*Wampler, K.A., **Bladon, K.D.**, and Faramarzi, M. 2023. Modeling wildfire effects on streamflow in the Cascade Mountains, Oregon, USA. *Journal of Hydrology*. 621: 129585. doi: 10.1016/j.jhydrol.2023.129585.
- Ebel, B.A., Wagenbrenner, J.W., Kinoshita, A.M., and **Bladon, K.D.** 2022. Hydrologic recovery after wildfire: A framework of approaches, metrics, criteria, trajectories, and timescales. *Journal of Hydrology and Hydromechanics*. 70(4): 388–400. doi: 10.2478/johh-2022-0033.
- Robinne, F.-N., Paquette, C., Hallema, D.W., **Bladon, K.D.**, and Parisien, M.-A. 2022. Towards baseline geographic information on wildfire-watershed risk: Needs, gaps, and opportunities in Canada. *Canadian Water Resources Journal*. 47(1): 1–18. doi: 10.1080/07011784.2022.2032367.
- Roebuck Jr., J.A., **Bladon, K.D.**, Donahue, D., Graham, E., Grieger, S., Morgenstern, K., Norwood, M., \*Wampler, K.A., Erkert, L., Renteria, L., Danczak, R., Fricke, S., & Myers-Pigg, A. 2022. Spatiotemporal controls on the delivery of dissolved organic matter to streams following a wildfire. *Geophysical Research Letters*. 49(16): e2022GL099535. doi: 10.1029/2022GL099535.
- Shuman, J.K., Balch, J.K., Barnes, R. T., Higuera, P.E., Roos, C.I., Schwilk, D.W., Stavros, E.N., Banerjee, T., Bela, M., Bendix, J., Bertolino, S., Bililign, S., **Bladon, K.D.**, Paulo Brando, Breidenthal, R.E., Buma, B., Calhoun, D., Carvalho, L.M.V., Cattau, M., Cawley, K.M., Chandra, S.,

- Chipman, M.L., Cobian, J., Conlisk, E., Coop, J., Cullen, A., Davis, K. T., Dayalu, A., Dolman, M., Ellsworth, L.M., Franklin, S., Guiterman, C.H., Hamilton, M., Hanan, E. J., Hansen, W.D., Hantson, S., Harvey, B.J., Holz, A., Huang, T., Hurteau, M.D., Ilangakoon, N.T., Jennings, M., Jones, C., Klimaszewski-Patterson, A., Kobziar, L.N., Kominoski, J., Kosovic, B., Krawchuk, M.A., Laris, P., Leonard, J., Loria-Salazar, S. M., Lucash, M., Mahmoud, H., Margolis, E., Maxwell, T., McCarty, J., McWethy, D.B., Meyer, R., Miesel, J.R., Moser, W.K., Nagy, R.C., Niyogi, D., Palmer, H.M., Pellegrini, A., Poulter, B., Robertson, K., Rocha, A., Sadegh, M., De Sales, F., Santos, F., Scordo, F., Sexton, J.O., Sharma, A. S., Smith, A. M. S., Soja, A., Still, C., Swetnam, T., Syphard, A.D., Tingey, M.W., Tohidi, A., Trugman, A., Turetsky, M., Varner, J.M., Wang, Y., Whitman, T., Yelenik, S., & Zhang, X. 2022. Reimagine fire science for the Anthropocene. *Proceedings of the National Academy of Sciences (PNAS) Nexus*. 1(3): pgac115. doi: 10.1093/pnasnexus/pgac115.
- Warren, D.R., Roon, D.A., Swartz, A., and **Bladon, K.D.** 2022. Loss of riparian forests from wildfire led to increased stream temperatures in summer, yet salmonid fish persisted. *Ecosphere*. 13(9): e4233. doi:10.1002/ecs2.4233
  - \*Wissler, A.D., Segura, C., and **Bladon, K.D.** 2022. Headwater stream thermal sensitivity across two contrasting lithologies in Northern California. *Hydrological Processes*. 36(3): e14517. doi: 10.1002/hyp.14517.
  - Bateman, D.S., Chelgren, N.D., Gresswell, R.E., Dunham, J.B., Hockman-Wert, D.P., Leer, D.W., and **Bladon, K.D.** 2021. Fish response to successive clearcuts in a second-growth forest from the central Coast Range of Oregon. *Forest Ecology and Management*. 496: 119447. doi: 10.1016/j.foreco.2021.119447
  - Dymond, S.F., Richardson, P.W., Webb, L.A., Keppeler, E.T., Arismendi, I., **Bladon, K.D.**, Cafferata, P.H., Dahlke, H.E., Longstreth, D.L., Brand, P.K., Ode, P.R., Surfleet, C.G., and Wagenbrenner, J.W. 2021. A field-based experiment on the influence of stand density reduction on watershed processes at the Caspar Creek Experimental Watersheds in Northern California. *Frontiers in Forests and Global Change*. 4: 691732. doi: 10.3389/ffgc.2021.691732.
  - Dymond, S.F., Wagenbrenner, J.W., Keppeler, E.T., and **Bladon, K.D.** 2021. Dynamic hillslope soil moisture in a Mediterranean montane watershed. *Water Resources Research*. 57(11): e2020WR029170. doi: 10.1029/2020WR029170.
  - \*Jarecke, K.M., **Bladon, K.D.**, and Wondzell, S.M. 2021. The influence of local and nonlocal factors on soil water content in a steep forested catchment. *Water Resources Research*. 57(5): e2020WR028343. doi: 10.1029/2020WR028343.
  - Richardson, P.W., Seehafer, J.E., Keppeler, E.T., Sutherland, D.G., Wagenbrenner, J.W., **Bladon, K.D.**, Dymond, S.F., and Cole, R.P. 2021. Fifty-eight years and counting of watershed science at the Caspar Creek Experimental Watersheds in northern California. *Hydrological Processes*. 35(6): e14207. doi: 10.1002/hyp.14207.
  - Robinne, F.-N., Hallema, D.W., **Bladon, K.D.**, Flannigan, M.D., Boisramé, G., Bréthaut, C.M., Gallagher, L., Doerr, S.H., Di Baldassarre, G., Hohner, A., Khan, S.J., Kinoshita, A.M., Martin, D., Mordecai, R., Nunes, J.P., Nyman, P., Santín, C., Sheridan, G., Stoof, C., Thompson, M.P., Waddington, J.M., Wei, Y. 2021. Scientists' warning on extreme wildfire risks to water supply. *Hydrological Processes: HP Today (Invited Commentary)*. 57(5): e14086. doi: 10.1002/hyp.14086.
  - Wagenbrenner, J.W., Ebel, B.A., **Bladon, K.D.**, and Kinoshita, A.M. 2021. Post-wildfire hydrologic recovery in Mediterranean climates: A systematic review and case study to identify current knowledge and opportunities. *Journal of Hydrology*. 602: 126772. doi: 10.1016/j.jhydrol.2021.126772.
  - Wilson, A.C., Nolin, A.W., and **Bladon, K.D.** 2021. Assessing the role of snow cover for regenerating forests across post-wildfire landscapes in the Pacific Northwest. *Journal of Geophysical Research: Biogeosciences*. 126: e2021JG006465. doi: 10.1029/2020JG006465.

- \*Cole, R.P., **Bladon, K.D.**, Wagenbrenner, J.W., and Coe, D.B.R. 2020. Hillslope erosion and sediment production after wildfire and post-fire forest management in northern California. *Hydrological Processes*. 34 (26): 5242–5259. doi: 10.1002/hyp.13932.
- \*Loiselle, D., Du., X., Alessi, D.S., **Bladon, K.D.**, and Faramarzi, M. 2020. Projecting impacts of wildfire and climate change on streamflow, sediment, and organic carbon yields in a forested watershed. *Journal of Hydrology*. 590: 125403. doi: 10.1016/j.jhydrol.2020.125403.
- Matosziuk, L.M., Hatten, J.A., Gallo, A., **Bladon, K.D.**, \*Ruud, D., Bowman, M., Egan, J., Heckman, K., SanClements, M., Strahm, B., and Weiglein, T. 2020. Short-term effects of recent fire on the production and translocation of pyrogenic carbon in Great Smoky Mountains National Park. *Frontiers in Forests and Global Change*. 3: 6. doi: 10.3389/ffgc.2020.00006
- Niemeyer, R.J., **Bladon, K.D.**, and Woodsmith, R.D. 2020. Long-term hydrologic recovery after wildfire in the interior Pacific Northwest. *Hydrological Processes*. 34 (5), 1182-1197. doi: 10.1002/hyp.13665.
- \*Pate, A.A., Segura, C., and **Bladon, K.D.** 2020. Streamflow permanence in headwater streams across four geomorphic provinces in Northern California. *Hydrological Processes*. 34 (23), 4487-4504.
- \*Puntenney-Desmond, K.C., **Bladon, K.D.**, and Silins, U. 2020. Runoff and sediment production from harvested hillslopes and the riparian area during high intensity rainfall events. *Journal of Hydrology*. 582: 124452.
- \*Rachels, A.A., **Bladon, K.D.**, \*Bywater-Reyes, S., and Hatten, J.A. 2020. Quantifying effects of forest harvesting on sources of suspended sediment to an Oregon Coast Range headwater stream. *Forest Ecology and Management*. 466: 118123.
- Robinne, F.-N., Hallema, D.W., **Bladon, K.D.**, and Buttle, J.M. 2020. Wildfire impacts on hydrologic ecosystem services in North American high-latitude forests: A scoping review. *Journal of Hydrology*. 581: 124360.
- Segura, C., **Bladon, K.D.**, Hatten, J.A., Jones, J.A., Hale, V.C., and Ice, G.G. 2020. Long-term effects of forest harvesting on summer low flow deficits in the Coast Range of Oregon. *Journal of Hydrology*. 585: 124749.
- **Bladon, K.D.**, \*Bywater-Reyes, S., LeBoldus, J.M., Keriö, S., Segura, C., Ritóková, G., and Shaw, D.C. 2019. Increased streamflow in catchments affected by a forest disease epidemic. *Science of the Total Environment*. 691: 112–123.
- Robinne, F.-N., **Bladon, K.D.**, Silins, U., Emelko, M.B., Flannigan, M.D., Parisien, M.-A., Wang, X., Kienzle, S.W., and Dupont, D.D. 2019. A regional-scale index for assessing the exposure of drinking-water sources to wildfires. *Forests*. 10(5): 384.
- **Bladon, K.D.** 2018. Rethinking wildfire and forest watershed management. *Science*. 359(6379): 1001–1002.
- **Bladon, K.D.**, Segura, C., \*Cook, N.A., \*Bywater-Reyes, S, and Reiter, M. 2018. A multi-catchment analysis of headwater and downstream temperature effects from contemporary forest harvesting. *Hydrological Processes*. 32: 293–304.
- \*Bywater-Reyes, S., Segura, C., and **Bladon, K.D.** 2018. Relative influence of landscape variables, hydrologic conditions, and forest management on sediment yields in temperate mountain catchments. *Water Resources Research*. 54(7): 5126–5142.
- Hallema, D.W., Robinne, F.-N., and **Bladon, K.D.** 2018. Reframing the challenge of wildfire threats to global water supplies. *Earth's Future*. 6(6): 772–776.
- Hallema, D.W., Sun, G., Caldwell, P.V., Norman, S.P., Cohen, E.C., Liu, Y., **Bladon, K.D.**, and McNulty, S.G. 2018. Burned forests impact water supplies. *Nature Communications*. 9: 1307.

- Hatten, J.A., Segura, C., **Bladon, K.D.**, Hale, V.C., Ice, G.G., and Stednick, J.D. 2018. Effects of successive forest harvests on suspended sediment dynamics in the Oregon Coast Range: Alsea Watershed Study Revisited. *Forest Ecology and Management*. 408: 238–248.
- McDonnell, J.J., Evaristo, J., **Bladon, K.D.**, Buttle, J.M., Creed, I.F., Dymond, S.F., Grant, G.E., Iroume, A., Jackson, C.R., Jones, J.A., Maness, T.C., McGuire, K.J., Scott, D.F., Segura, C., Sidle, R.C., and Tague, A.N. 2018. Water sustainability and watershed storage. *Nature Sustainability*. 1: 378–379.
- Robinne, F.-N., **Bladon, K.D.**, Miller, C., Parisien, M.-A., Mathieu, J., and Flannigan, M.D. 2018. A spatial evaluation of global wildfire-water risks to human and natural systems. *Science of the Total Environment*. 610-611: 1193–1206.
- \*Bywater-Reyes, S., Segura, C., and **Bladon, K.D.** 2017. Geology and geomorphology influence suspended sediment transport and modulate increases following harvest in temperate headwater catchments. *Journal of Hydrology*. 548: 754–769.
- Hallema, D.W., Sun, G., **Bladon, K.D.**, Caldwell, P.V., Norman, S.P., Liu, Y., and McNulty, S.G. 2017. Regional patterns of post-wildfire streamflow in the Western United States: The importance of scale-specific connectivity. *Hydrological Processes*. 31: 2582–2598.
- **Bladon, K.D.**, \*Cook, N.A., Light, J.T., and Segura, C. 2016. A catchment-scale assessment of stream temperature response to contemporary forest harvesting in the Oregon Coast Range. *Forest Ecology and Management*. 379: 153–164.
- Emelko, M.B., Stone, M., Silins, U., Allin, D., Collins, A.L., Williams, C.H.S., Martens, A.M., and **Bladon, K.D.** 2016. Sediment-phosphorus dynamics can shift aquatic ecology and cause downstream legacy effects after wildfire in large river systems. *Global Change Biology*. 22(3): 1168–1184.
- Robinne, F.-N., Miller, C., Parisien, M.-A., Emelko, M.B., **Bladon, K.D.**, Silins, U., and Flannigan, M. 2016. A global index for mapping the exposure of water resources to wildfire. *Forests*. 7(1): 22.
- Spencer, S.A., Anderson, A., and **Bladon, K.D.** 2016. Long-term forest watershed research in Alberta. *The Forestry Chronicle*. 92(1): 3–5.
- Silins, U., Anderson, A., **Bladon, K.D.**, Emelko, M.B., Stone, M., Spencer, S.A., Williams, C.H.S., Wagner, M.J., Martens, A.M., and Hawthorn, K. 2016. Southern Rockies Watershed Project. *The Forestry Chronicle*. 92(1): 39–42.
- Faramarzi, M., Srinivasan, R., Irvani, M., **Bladon, K.D.**, Abbaspour, K.C., Zehnder, A.J.B., and Goss, G. 2015. Setting up a hydrological model: Data discrimination analyses prior to calibration. *Environmental Modelling and Software*. 74: 48–65.
- **Bladon, K.D.**, Emelko, M.B., Silins, U., and Stone, M. 2014. Wildfire and the future of water supply. *Environmental Science & Technology*. 48: 8936–8943.
- Silins, U., **Bladon, K.D.**, Kelly, E.N., Esch, E., Spence, J.R., Stone, M., Emelko, M.B., Boon, S., Wagner, M.J., Williams, C.H.S., and Tichkowsky, I. 2014. Five-year legacy of wildfire and salvage logging impacts on nutrient runoff and aquatic plant, macroinvertebrate, and fish productivity. *Ecohydrology*. 7(6): 1508–1523.
- Wagner, M.J., **Bladon, K.D.**, Silins, U., Williams, C.H.S., Martens, A.M., Boon, S., MacDonald, R.J., Stone, M., Emelko, M.B., and Anderson, A. 2014. Catchment-scale stream temperature response to land disturbance by wildfire governed by surface-subsurface energy exchange and atmospheric controls. *Journal of Hydrology*. 517: 328–338.
- Bothwell, M.L., Kilroy, C., Taylor, B.W., James, D.A., Gillis, C-A., **Bladon, K.D.**, and Silins, U. 2012. Iron not involved in *Didymosphenia geminata* bloom success in phosphorus-poor rivers. *Canadian Journal of Fisheries and Aquatic Sciences*. 69(11): 1723–1727.

- Emelko, M.B., Silins, U., **Bladon, K.D.**, and Stone, M. 2011. Implications of land disturbance on drinking water treatability in a changing climate: demonstrating the need for “source water supply and protection” strategies. *Water Research*. 45(2): 461–472.
- Silins, U., Stone, M., Emelko, M.B., and **Bladon, K.D.** 2009. Sediment production following severe wildfire and post-fire salvage logging in the Rocky Mountain headwaters of the Oldman River Basin, Alberta. *Catena*. 79(3): 189–197.
- **Bladon, K.D.**, Silins, U., Wagner, M.J., Stone, M., Emelko, M.B., Devito, K.J., Mendoza, C.A., and Boon, S. 2008. Wildfire impacts on nitrogen export and production from headwater streams in southern Alberta’s Rocky Mountains. *Canadian Journal of Forest Research*. 38: 2359–2371.
- **Bladon, K.D.**, Lieffers, V.J., Silins, U., Landhäusser, S.M., and Blenis, P.V. 2008. Elevated mortality of residual trees following variable retention harvesting of mixedwood forest. *The Forestry Chronicle*. 84: 70–75.
- Silins, U., Stone, M., Emelko, M., and **Bladon, K.** 2008. Impacts of wildfire and post-fire salvage logging on sediment transfer in headwater regions of the Oldman Watershed, Alberta. *Sediment Dynamics in Changing Environments. IAHS Red Book Series*. 325: 510–515.
- **Bladon, K.D.**, Silins, U., Landhäusser, S.M., Messier, C., and Lieffers, V.J. 2007. Carbon isotope discrimination and water stress in trembling aspen following variable retention harvesting. *Tree Physiology*. 27: 1065–1071.
- **Bladon, K.D.**, Silins, U., Landhäusser, S.M., and Lieffers, V.J. 2006. Differential transpiration by three boreal tree species in response to increased evaporative demand after variable retention harvesting. *Agricultural and Forest Meteorology*. 138: 104–119.

## Refereed Technical & Extension Publications

- Robinne, F.-N., and **Bladon, K.D.** 2021. Wildfires in our watersheds: "Code red" for source water supply. Water Canada, November/December: 26-27.
- Hallema, D.W., Sun, G., Caldwell, P.V., Robinne, F.-N., **Bladon, K.D.**, Norman, S.P., Liu, Y., Cohen, E.C., and McNulty, S.G. 2019. Wildland fire impacts on water yield across the contiguous United States. General Technical Report SRS-GTR-238. United States Department of Agriculture, Forest Service, Southern Research Station, Asheville, NC, 109 pp.
- Wiensczyk, A., Gayton, D., Redding, T., **Bladon, K.**, Leach, J., Swift, K., Ran, S., Krishnaswamy, A., Simmons, E., Joseph, L., Almuedo, P.L., and Cuzner, D. 2012. Climate-induced changes to natural disturbance regimes and management responses in British Columbia: Impacts on natural and human systems. FORREX Forum for Research and Extension in Natural Resources, Kamloops, B.C., FORREX Series 27. 28 pp.
- Pike, R.G., Redding, T., Moore, R.D., Winkler, R.D., and **Bladon, K.D.** (editors). 2010. Compendium of forest hydrology and geomorphology in British Columbia. B.C. Ministry of Forests and Range, Forest Science Program, Victoria, B.C. and FORREX Forum for Research and Extension in Natural Resources, Kamloops, B.C. Land Management Handbook 66. 805 pp.
- Silins, U., **Bladon, K.D.**, Anderson, A., Diiwu, J., Emelko, M.B., Stone, M., and Boon, S. 2009. Southern Rockies Watershed Project: How wildfire and salvage logging affect water quality and aquatic ecology. *Streamline*. 12(2):1–7.
- Boon, S., Davis, R., **Bladon, K.**, and Wagner, M. 2009. Comparison of field techniques for measuring snow density at a point. *Streamline*. 12(2):8–12.

- Silins, U., **Bladon, K.D.**, Stone, M., Emelko, M.B., and Boon, S. 2009. Southern Rockies Watershed Project: Impact of natural disturbance by wildfire on hydrology, water quality, and aquatic ecology. Phase I Final Report (2004-2008). Alberta Sustainable Resource Development. Edmonton, AB. 89 pp.
- **Bladon, K.D.**, and Redding, T. 2009. Wildfire and watershed hydrology: Key findings from a workshop. *Streamline*. 13(1):1-4.
- Redding, T., and **Bladon, K.D.** 2009. Mountain pine beetle and watershed management. *Streamline*. 13:29-31.
- **Bladon, K.D.** 2009. One Watershed – One Water Conference Summary. *LINK*. 4:1–2.
- **Bladon, K.D.**, and Silins, U. 2008. Linking silviculture to watershed management. *Canadian Silviculture*. August 2008:6–10.
- Emelko, M.B., Silins, U., **Bladon, K.D.**, and Stone, M. 2008. Drinking water treatability implications of severe wildfire. In Proceedings of the AWWA Water Quality Technology Conference. Denver, CO.
- **Bladon, K.D.**, Rothwell, R., and Spillios, L. 2008. Chapter 12: Hydrologic concerns of cold climate harvesting. In Handbook of Control and Mitigation Measures for Silvicultural Operations. National Council for Air and Stream Improvement, Inc. (NCASI). Montreal, QC.
- **Bladon, K.D.**, Rothwell, R., and Spillios, L. 2008. Chapter 9: Control and mitigation measures for fire: Hydrologic considerations. In Handbook of Control and Mitigation Measures for Silvicultural Operations. National Council for Air and Stream Improvement, Inc. (NCASI). Montreal, QC.
- **Bladon, K.D.**, and Lieffers, V.J. 2008. What happens to structure trees that are left in variable retention cutovers? *Sustainable Forest Management Network*. Research Note No. 28.
- **Bladon, K.D.**, Silins, U., Lieffers, V.J., and Landhäusser, S.M. 2008. Lessons learned from observations of mortality of residual trees following variable retention in west-central Alberta. In Overcoming Obstacles to Variable Retention in Forest Management: Science to Management Forum Proceedings, September 25–27, 2007. *BC Journal of Ecosystems and Management*. 8(3): 73-76
- **Bladon, K.D.** 2006. Stress and mortality of four boreal tree species following variable retention harvesting. *Ph.D. Thesis. University of Alberta*, Edmonton, AB.
- **Bladon, K.D.**, Lieffers, V.J., Silins, U., Landhäusser, S. 2006. Residual trees are under water stress in variable retention stands. *Centre for Enhanced Forest Management. Advances in Forestry Research*. Research Note 08/06.
- **Bladon, K.D.** 2004. Brown trees in green-tree retention. *Environmental Research News in Alberta*. 5(1): 7-8.

## Manuscripts in Review

- Miralha, L., Segura, C., and **Bladon, K.D.** Stream temperature responses to forest harvesting with different riparian buffer prescriptions in Northern California. *In review*. Forest Ecology and Management.

## Invited Oral Presentations (\* Graduate student)

- **Bladon, K.D.**, Borisenko, A., Compton, J., Donahue, D., Grieger, S., \*Ivie, J., \*Kang, H., \*McCredie, K., \*Miralha, L., Myers-Pigg, A., Roebuck, J.A., \*Roon, D.A., \*Wampler, K.A., and Warren, D.R. 2022. Wildfire and water security: Quantifying the effects of fires on water quantity, water quality, aquatic ecosystems, and community drinking water treatment. Chemical, Biological & Environmental Engineering Seminar Series. Mar. 13, 2023, Corvallis, OR.
- **Bladon, K.D.**, Borisenko, A., Compton, J., Donahue, D., Grieger, S., \*Ivie, J., \*Kang, H., \*McCredie, K., \*Miralha, L., Myers-Pigg, A., Roebuck, J.A., \*Roon, D.A., \*Wampler, K.A., and Warren, D.R. 2022. Wildfire effects on catchment hydrology and biogeochemical processes. American Geophysical Union Fall Meeting. Dec. 12–16, 2022, Chicago, IL.
- **Bladon, K.D.**, Warren, D.R., \*Roon, D.A., Swartz, A., \*McCredie, K., and \*Ivie, J. 2022. The Hinkle Creek Watershed Study revisited: Quantifying the effects from the Archie Creek wildfire on water quality and aquatic ecology. Nov. 3, 2022. Umpqua River Basin Watershed Committee, Roseburg, OR.
- **Bladon, K.D.**, \*Roon, D.A., Warren, D.R., Swartz, A., \*McCredie, K., and \*Ivie, J. 2022. Wildfire and post-fire management effects on water quantity, water quality, and aquatic ecology: The Hinkle Creek Watershed Study revisited. Sep. 28, 2022. National Council for Air and Stream Improvement Fall Meeting, Vancouver, WA.
- **Bladon, K.D.**, Robinne, F.-N., Hallema, D.W., Wagenbrenner, J.W., \*Cole, R.P., \*Wampler, K.A., \*McCredie, K., Roon, D.A., and Warren, D.R. 2022. Wildfire and post-fire management effects on water quantity, water quality, and aquatic ecology. Oregon Chapter – American Fisheries Society 58th Annual Meeting. Mar. 2–4, 2022, Virtual.
- **Bladon, K.D.**, Warren, D.R., \*Roon, D.A., Swartz, A., and \*McCredie, K. 2021. Wildfire and post-fire management effects on water quantity, water quality, and aquatic ecology: The Hinkle Creek Watershed Study revisited. Nov. 9, 2021. National Council for Air and Stream Improvement Fall Meeting.
- **Bladon, K.D.**, Postma, J., Hessburg, P., and Vos, J. 2021. Interdisciplinary approaches to addressing wildfire-water related challenges. Nov. 4–5, 2021. PNW Interdisciplinary Wildfire Research 2021 Virtual Workshop.
- **Bladon, K.D.**, Warren, D.R., \*Roon, D.A., Swartz, A., and \*McCredie, K. 2021. Wildfire and post-fire management effects on water quantity, water quality, and aquatic ecology in the Hinkle Creek Watershed. Sep. 21, 2021. Sustainable Forestry Initiative, Oregon State Implementation Committee Meeting.
- **Bladon, K.D.** 2021. Wildfire and post-fire managements effects on water quantity, water quality, and aquatic ecology. Apr. 13, 2021. California Fire Science Seminar Series.
- **Bladon, K.D.** 2021. Wildfire and post-fire management effects on water quantity, water quality, and aquatic ecology. Apr. 2, 2021. H.J. Andrews Forest LTER Monthly Meeting.
- **Bladon, K.D.** and Behan, J. 2021. Trees to Taps: Forest management effects on streamflow. Mar. 11–12, 2021. Trees to Taps: Forest Management and Drinking Water Conference.
- **Bladon, K.D.** and Behan, J. 2021. Trees to Taps: Forest management effects on suspended sediment and turbidity. Mar. 11–12, 2021. Trees to Taps: Forest Management and Drinking Water Conference.
- **Bladon, K.D.** 2021. Wildfire and post-fire managements effects on water quantity, water quality, and aquatic ecology. Feb. 24, 2021. Oregon Forest Stewards Guild Meeting.
- **Bladon, K.D.** 2020. Wildfire and post-fire management effects on water resources. Nov. 8, 2020. Oregon Forest and Industries Council Annual Meeting.



- **Bladon, K.D.** 2020. Wildfire and post-fire management effects on water resources. Oct. 8, 2020. Oregon Society of American Foresters Annual Meeting.
- **Bladon, K.D.** 2020. Post-wildfire effects on water quantity, water quality, aquatic ecosystem health, and community drinking water supply. Oct. 8, 2020. Oregon Bureau of Land Management Aquatic Habitat Management Working Group Meeting.
- **Bladon, K.D.**, Bywater-Reyes, S., LeBoldus, J.M., Keriö, S., Segura, C., Ritóková, G., and Shaw, D.C. 2019. Increased streamflow in catchments affected by a forest disease epidemic. 2019 National Council for Air and Stream Improvement Western Regional Meeting. Sep. 23–25, 2019 Vancouver, WA.
- **Bladon, K.D.** 2019. Wildfire effects on water quantity and quality. Oregon Governor’s Wildfire Response Committee Meeting. Apr. 23, 2019. Salem, OR.
- **Bladon, K.D.**, Hatten, J.A., Segura, C., Bywater-Reyes, S., Reiter, M., Johnson, S.L., Hale, V.C., Ice, G.G., and Stednick, J.D. 2019. Watershed studies reveal effectiveness of BMPs at reducing delivery of sediment to streams. *Responses of Headwater Streams to Forest Management in the Pacific Northwest*. Jan. 15–16, 2019. Corvallis, OR.
- **Bladon, K.D.**, \*Cole, R.P., Wagenbrenner, J.W., Hatten, J.A., and Coe, D. 2019. Wildfire and post-fire forest management impacts on soil hydraulic properties, runoff, erosion, and vegetation recovery. *Soil Science Society of America International Soils Meeting*. Jan. 6–9, 2019. San Diego, CA.
- **Bladon, K.D.**, Segura, C., Bywater-Reyes, S., Cook, N.A., Reiter, M., and Johnson, S.L. 2018. A multi-catchment analysis of headwater and downstream temperature effects from contemporary forest harvesting in western Oregon. *Oregon Forest and Industries Council Annual Meeting*. Oct. 7–9, 2018. Sunriver, OR.
- **Bladon, K.D.** 2018. Wildfire effects on physical and chemical water quality. *Oregon Society of American Foresters Annual Meeting*. Apr. 18–19, 2018. Bend, OR.
- **Bladon, K.D.**, \*Cole, R.P., Wagenbrenner, J.W., and Coe, D. 2018. Comparative effects of different post-fire land management strategies on hillslope runoff and sediment yield. *39th Annual Forest Vegetation Management Conference*. Jan. 16–18, 2018. Anderson, CA.
- **Bladon, K.D.** 2017. Wildfire effects on source water quantity, quality, and aquatic ecology. *Washington State University Vancouver*. Dec. 4, 2017. Vancouver, WA.
- **Bladon, K.D.** 2017. Linking wildfire effects on water quantity and quality in headwater catchments to challenges for downstream drinking water treatment. *North Santiam Watershed Council Quarterly Meeting*. Nov. 9, 2017. Stayton, OR.
- **Bladon, K.D.**, Bywater-Reyes, S., LeBoldus, J.M., Segura, C., Ritokova, G., and Shaw, D.C. 2017. Annual water yield response in Oregon catchments affected by Swiss needle cast. *Swiss Needle Cast Annual General Meeting*. Nov. 7, 2017. Corvallis, OR.
- **Bladon, K.D.** 2017. Wildfire effects on forested headwater streams and downstream water supply. *Salem Public Works, Water Quality Division Meeting*. Oct. 20, 2017. Salem, OR.
- **Bladon, K.D.** 2017. Burning forests impact downstream water supply. *South Santiam Watershed Council Quarterly Meeting*. Oct. 17, 2017. Lebanon, OR.
- **Bladon, K.D.**, Segura, C., Bywater-Reyes, S., Cook, N.A., and Reiter, M. 2017. Impacts of contemporary forest management on stream temperature in western Oregon. *Oregon Forest and Industries Council Policy Committee Meeting*. Sep. 20, 2017. Salem, OR.
- **Bladon, K.D.**, \*Cole, R., and Post, S. 2016. Wildfire impacts on soil hydraulic properties and water quality in southern Oregon. *Southern Oregon Hydrologists Workshop*. May 23, 2016. Canyonville, OR.

- **Bladon, K.D.** 2016. Management implications of disturbance on forest hydrology. *State of the State and Forest Health Conference*. Feb. 16–17, 2016. Corvallis, OR.
- **Bladon, K.D.**, \*Puntenney, K.C., and Silins, U. 2015. Runoff and sediment transport through riparian buffers following forest harvesting of a Rocky Mountain headwater catchment. *NCASI Forest Watersheds Science Symposium*. Sept. 23, 2015. Vancouver, WA.
- **Bladon, K.D.**, Wagner, M.J., Silins, U., \*Williams, C.H.S., Martens, A.M., Stone, M., and Emelko, M.B. 2015. On the complexity of catchment-scale stream temperature response to land disturbance by wildfire and post-fire salvage logging in the Rocky Mountains. *145<sup>th</sup> Annual Meeting of the American Fisheries Society*. Aug. 16–20, 2015. Portland, OR.
- **Bladon, K.D.**, Dixon, J., Silins, U., and Emelko, M.B. 2015. Mitigating the impacts of events 2: Watershed monitoring and why it's worth it. *AWWOA Workshop – Fires, Floods and Other Extreme Events: Is Your Utility Ready?* Mar. 9, 2015. Banff, AB.
- **Bladon, K.D.**, Silins, U., Emelko, M.B., Flannigan, M.D., Dupont, D.P., Kienzle, S.W., Parisien, M.-A., Robinne, F.,-N., Schroeder, D., Stone, M., Thompson, D.K., Tymstra, C., Wang, X. 2014. Assessing the impact of active land management in mitigating wildfire threat to source water supply quality. *American Geophysical Union Fall Meeting*. Dec. 15–19, 2014. San Francisco, CA.
- **Bladon, K.D.**, Silins, U., Emelko, M.B., Dupont, D.P., Flannigan, M.D., Kienzle, S.W., Parisien, M.-A., Robinne, S., Schroeder, D., Thompson, D.K., Tymstra, C., Waddington, J.M., Wang, X., Woolford, D.G., and Wotton, B.M. 2013. Minimizing wildfire risk to municipal water works by active source water protection. *AWWA Water Quality Technology Conference*. Nov. 4–7, 2013. Long Beach, CA.
- **Bladon, K.D.**, Silins, U., Emelko, M.B., Stone, M., and Williams, C.H.S.\* 2013. The Milk River Fire and lessons learned from the Lost Creek Wildfire. *Milk River Watershed Council Canada 8<sup>th</sup> Annual General Meeting*. Apr. 11, 2013. Milk River, AB.
- **Bladon, K.D.**, Silins, U., Emelko, M.B., Stone, M., Wagner, M.J., and Williams, C.H.S.\* 2013. Southern Rockies Watershed Project: The legacy of wildfire effects on hydrology, water quality, and aquatic ecosystem health. *Oldman Watershed Council 7<sup>th</sup> Annual Holding the Reins Landowners Summit: Fire Impacts and Stewardship in the Watershed*. Feb. 13, 2013. Fort Macleod, AB
- **Bladon, K.D.** 2011. Watershed disturbance by wildfire and salvage logging: the legacy of effects on hydrology, heavy metals, nutrients, and aquatic ecology. *Coldwater Indian Band Water Workshop*. Nov. 17, 2011. Merritt, BC.
- **Bladon, K.D.** 2011. After the fire's out: the legacy of wildfire effects on hydrology, water quality, and aquatic ecosystems. *Thompson Rivers University Environmental Sciences Seminar Series*. Oct. 27, 2011. Kamloops, BC.
- **Bladon, K.D.** 2011. Ecohydrology: sustainable water resource and ecosystem management. *Eco-Health, Ecosystems, and Watersheds Workshop*. Oct. 19, 2011. Merritt, BC.
- **Bladon, K.D.**, Silins, U., Williams, C.H.S., Wagner, M.J., Stone, M., Emelko, M.B., Boon, S. 2011. Phosphorus and nitrogen linkages to changes in aquatic ecosystems after wildfire in the Rocky Mountains of Alberta, Canada. *American Chemical Society National Meeting and Expo*. Aug. 28–Sept. 2, 2011. Denver, CO.
- **Bladon, K.D.**, Boon, S., Burles, K., Williams, C., Wagner, M., Silins, U., Stone, M., Emelko, M. 2011. Changes in snow accumulation and melt after wildfire in the southern Rocky Mountains of Alberta, Canada. *American Chemical Society National Meeting and Expo*. Aug. 28–Sept. 2, 2011. Denver, CO.

- **Bladon, K.D.** 2009. Wildfire effects on water quality. Science, Sustainability, and Innovation – Disturbance Effects on Watershed Function. *Canadian Institute of Forestry National Electronic Lecture Series*. Mar. 5, 2009. Canada.
- **Bladon, K.D.**, and Silins, U. 2008. Cascading ecohydrological effects of wildfire and post-fire salvage logging in the Eastern Slopes, Alberta. *North American Lake Management Society*. Nov. 10, 2008. Lake Louise, AB.
- **Bladon, K.D.**, Silins, U., Landhäusser, S.M., and Lieffers, V.J. 2007. Lessons learned from observations of mortality of residual trees following partial harvesting in west-central Alberta. Overcoming Obstacles to Variable Retention in Forest Management. *FORREX Annual General Meeting & Science Forum*. Sept. 25–27, 2007. Prince George, BC.
- Silins, U. and **Bladon, K.D.** 2007. Integrated forest-watershed planning tools: case studies with ECA-Alberta. *Sustainable Forest Management Network. Management of Aquatic Systems in Forested Landscapes Workshop*. Mar. 20–21, 2007. Winnipeg, MB.

## Oral Presentations (\* Graduate students or under direct advisement)

- Barnes, M., Bailey, J., **Bladon, K.D.**, Grieger, S., Laan, M., Roebuck, J.A., Scheibe, T., Torgeson, J.M., and Myers-Pigg, A.N. 2023. Vegetation burn severity alters carbon, nitrogen, and phosphorus composition of chars and leachates: Implications for watershed biogeochemical cycling. 8th Interagency Conference on Research in the Watersheds. Jun. 5–8, 2023, Corvallis, OR.
- Bush, S.A., Johnson, S.L., Sullivan, P.L., **Bladon, K.D.**, Ward, A.S., and Wondzell, S.M. 2023. Stream biogeochemical response to mixed-severity fire and increasing storm magnitudes at H.J. Andrews Experimental Forest during the Holiday Farm Fire. 8th Interagency Conference on Research in the Watersheds. Jun. 5–8, 2023, Corvallis, OR.
- \*Roon, D.A., **Bladon, K.D.**, Flitcroft, R., Ebersole, J., and Compton, J. 2023. Synthesizing the effects of wildfire and shifting fire regimes on aquatic ecosystems in the Pacific Northwest. 8th Interagency Conference on Research in the Watersheds. Jun. 5–8, 2023, Corvallis, OR.
- Wagenbrenner, J.W., Keppeler, E.T., Richardson, P., Miller, E., Dymond, S., **Bladon, K.D.**, and \*Miralha, L. 2023. Experimental timber harvests in northern California show that drought can reduce post-harvest gains in summer low flows. 8th Interagency Conference on Research in the Watersheds. Jun. 5–8, 2023, Corvallis, OR.
- \*Wampler, K., **Bladon, K.D.**, and Myers-Pigg, A.N. 2023. Drivers of carbon concentration and character through a river network following a 2020 Oregon wildfire. 8th Interagency Conference on Research in the Watersheds. Jun. 5–8, 2023, Corvallis, OR.
- Whidden, I.A., Bennett, A., **Bladon, K.D.**, Jones, J.A., and Raleigh, M.S. 2023. Landscape and forest canopy effects on snow water storage in a warming winter climate in the Lookout Creek drainage basin, Oregon. 8th Interagency Conference on Research in the Watersheds. Jun. 5–8, 2023, Corvallis, OR.
- \*Roon, D.A., **Bladon, K.D.**, Flitcroft, R., Ebersole, J., and Compton, J. 2023. Identifying the drivers of aquatic ecosystem vulnerability to wildfires in the Pacific Northwest. Oregon Chapter of the American Fisheries Society, 59th Annual Meeting, Feb. 28–Mar. 3, 2023, Eugene, OR.
- \*Wampler, K.A., **Bladon, K.D.**, Donahue, D., Morgenstern, K., and Myers-Pigg, A. 2022. Wildfire effects on key source water quality constituents across multiple sub-catchments in Oregon. American Geophysical Union—Frontiers in Hydrology. Jun. 20–24, 2022, Puerto Rico.
- Grieger, S., Roebuck, A., Barnes, M., **Bladon, K.D.**, Bailey, J.D., Graham, E.B., and Myers-Pigg, A.N. 2022. An experimental assessment of the impacts of burn severity on dissolved organic matter chemistry. Joint Aquatic Sciences Meeting. May 14–20, 2022, Grand Rapids, MI.

- \*Roon, D.A., **Bladon, K.D.**, Flitcroft, R.L., and Ebersole, J.L. 2022. Modeling the effects of fire on aquatic ecosystems in the Pacific Northwest. Joint Aquatic Sciences Meeting. May 14–20, 2022, Grand Rapids, MI.
- \*Roon, D.A., **Bladon, K.D.**, Flitcroft, R.L., and Ebersole, J.L. 2022. Modeling the effects of fire on aquatic ecosystems in the Pacific Northwest. Oregon Chapter – American Fisheries Society 58<sup>th</sup> Annual Meeting. Mar. 2–4, 2022, Virtual.
- Warren, D.R., \*Roon, D.A., Swartz, A., and **Bladon, K.D.** 2022. Cold-water fish persist in a stream system with elevated summer temperatures after a severe wildfire. Oregon Chapter – American Fisheries Society 58<sup>th</sup> Annual Meeting. Mar. 2–4, 2022, Virtual.
- Dymond, S.F., **Bladon, K.D.**, Keppeler, E.T., and Wagenbrenner, J.W. 2021. Impacts of forest disturbance and drought on evapotranspiration in a coastal montane forest. American Geophysical Union Fall Meeting. Dec. 13–17, 2021, New Orleans, LA.
- Dymond, S.F., **Bladon, K.D.**, Keppeler, E.T., and Wagenbrenner, J.W. 2021. Impacts of forest disturbance on evapotranspiration and source water appropriation in a Mediterranean montane watershed. Society of American Foresters Annual Meeting. Nov. 5, 2021, Virtual.
- Wagenbrenner, J.W., Coe, D., Lindsay, D., \*Cole, R.P., **Bladon, K.D.**, Prats, S., Malvar, M., Robichaud, P., Brown, R., Gonzalez, J., and Lucas-Borja, M., 2020. Hillslope runoff and sediment production after wildfire and post-fire forest management on the Boggs Mountain Demonstration State Forest, Lake County. California Board of Forestry. Dec. 8, 2020. Redding, CA.
- Segura, C., **Bladon, K.D.**, Hatten, J.A., Jones, J.A., Hale, V.C., Stednick, J.D., and McDonnell, J.J. 2019. Long-term effects of forest harvesting on summer low flow deficits in the Oregon Coast Range: Alsea Watershed Study Revisited. American Geophysical Union Fall Meeting. Dec. 9–13, 2019, San Francisco, CA.
- Morrissette, B.A., Chung, W., Hatten, J.A., **Bladon, K.D.**, and Sessions, J. 2019. A comparison of erosion potential between manual and cable-assisted mechanized felling on steep slopes – A case study in southern Oregon, USA. XXV IUFRO World Congress 2019, Forest Research and Cooperation for Sustainable Development. Sep. 29–Oct. 5, 2019. Curitiba, Brazil.
- Robinne, F.-N., Hallema, D.W., **Bladon, K.D.**, and Buttle, J.M. 2019. A review of wildfire effects on hydrologic services provided by North American high-latitude forests. XXV IUFRO World Congress 2019, Forest Research and Cooperation for Sustainable Development. Sep. 29–Oct. 5, 2019. Curitiba, Brazil.
- Wagenbrenner, J.W., Robichaud, P.R., Prats, S.A., Malvar, M.C., Cole, R.P., Coe, D., and **Bladon, K.D.** 2019. Runoff and sediment delivery from small, burned headwater catchments. European Geophysical Union General Assembly. Apr. 7–12, 2019, Vienna, Austria.
- Wagenbrenner, J.W., Robichaud, P.R., Prats, S.A., Malvar, M.C., \*Cole, R.P., Coe, D., and **Bladon, K.D.** 2019. Effects of wildfire and post-fire forest management on physical soil properties and watershed outputs. *Soil Science Society of America International Soils Meeting*. Jan. 6–9, 2019. San Diego, CA.
- Robinne, F.-N., Hallema, D.W., Sun, G., and **Bladon, K.D.** 2018. Natural and social aspects of global wildfire threats to water supplies. *IUFRO Joint Conference on Forests and Water*. Nov. 5–9, 2018. Valdivia, Chile.
- Robinne, F.-N., **Bladon, K.D.**, Silins, U., Emelko, M.B., Kienzle, S.W., Parisien, M.-A., and Flannigan, M.D. 2018. A simple, reproducible model to assess regional-scale community water supply hazard from wildfire. *IUFRO Joint Conference on Forests and Water*. Nov. 5–9, 2018. Valdivia, Chile.

- Hatten, J.A., **Bladon, K.D.**, Segura, C., Hale, V.C., Stednick, J.D., Richardson, K., Wheatcroft, R., and Guerrero, F. 2018. Do contemporary forest harvesting practices return sediment fluxes to pre-settlement levels in Oregon forests? *Society of American Foresters 2018 National Convention*. Oct. 3–7, 2018. Portland, OR.
- \*Jarecke, K.M., **Bladon, K.D.**, and Wondzell, S.M. 2018. Quantifying water for streamflow versus vegetation use in the West Cascades. *LTERR All Scientists Meeting*. Oct. 1–4, 2018. Pacific Grove, CA.
- \*Jarecke, K.M., **Bladon, K.D.**, and Wondzell, S.M. 2018. On the spatial and temporal dynamics of soil moisture. *North American Forest Soils Conference*. Jun. 10–16, 2018. Quebec City, QC.
- **Bladon, K.D.**, Hatten, J.A., SanClements, M.D., Strahm, B.D., Matosziuk, L.M., Egan, J., and \*Ruud, D. 2018. Wildfire effects on soil hydraulic properties and organic matter in a southern Appalachian hardwood forest. *The Fire Continuum Conference: Preparing for the Future of Wildland Fire*. May 21–24, 2018, Missoula, MT.
- \*Cole, R.P., **Bladon, K.D.**, Wagenbrenner, J.W., and Coe, D. 2018. Wildfire and post-fire land management effects on runoff and hillslope sediment yield. *The Fire Continuum Conference: Preparing for the Future of Wildland Fire*. May 21–24, 2018, Missoula, MT.
- Silins, U., Emelko, M.B., **Bladon, K.D.**, Stone, M., Williams, C.H.S., Herlein, K., Martens, A.M., and Spencer, S.A. 2018. Alternate trajectories for post-fire watershed recovery: Crystal balling nitrogen production a decade after wildfire and beyond. *The Fire Continuum Conference: Preparing for the Future of Wildland Fire*. May 21–24, 2018, Missoula, MT.
- Wagenbrenner, J.W. Ebel, B.A., Kinoshita, A.M., and **Bladon, K.D.** 2018. Hydrologic recovery after high severity wildfire. *The Fire Continuum Conference: Preparing for the Future of Wildland Fire*. May 21–24, 2018, Missoula, MT.
- Hallema, D.W., Sun, G., Caldwell, P.V., Norman, S.P., Robinne, F.-N., **Bladon, K.D.**, Cohen, E.C., Liu, Y., and McNulty, S.G. 2018. Regional wildland fire threats to surface water supplies. *Workshop 13, Southern Blue Ridge Fire Learning Network*. May 15–17, 2018, Pickens, SC.
- \*Cole, R.P., **Bladon, K.D.**, Wagenbrenner, J.W., and Coe, D. 2018. Runoff and erosion across several post-fire land management treatments. *8th Annual Pacific Northwest Water Research Symposium*. Apr. 23–24, 2018. Corvallis, OR.
- \*Jarecke, K.M., **Bladon, K.D.**, and Wondzell, S.M. 2018. Drivers of plant-available soil moisture: Examining the interaction of topography and soil hydraulic properties in the western Cascades. *8th Annual Pacific Northwest Water Research Symposium*. Apr. 23–24, 2018. Corvallis, OR.
- \*Rachels, A.A., and **Bladon, K.D.** 2018. Quantifying the effects of timber-harvesting operations on fine sediment inputs to Oregon Coast Range headwater streams. *8th Annual Pacific Northwest Water Research Symposium*. Apr. 23–24, 2018, Corvallis, OR.
- \*Cole, R.P., **Bladon, K.D.**, Wagenbrenner, J.W., and Coe, D. 2018. Post-fire forest management effects on hillslope erosion. *Western Forestry Graduate Research Symposium*. Apr. 13, 2018. Corvallis, OR.
- \*Jarecke, K.M., **Bladon, K.D.**, and Wondzell, S.M. 2018. Examining the interaction of topography and soil hydraulic properties in the western Cascades: Drivers of plant-available soil moisture. *Western Forestry Graduate Research Symposium*. Apr. 13, 2018. Corvallis, OR.
- \*Rachels, A.A., and **Bladon, K.D.** 2018. The effects of forest harvesting activities on fine sediment inputs to Oregon Coast Range headwater streams. *Western Forestry Graduate Research Symposium*. Apr 13, 2018. Corvallis, OR.
- \*Cole, R.P., **Bladon, K.D.**, Wagenbrenner, J.W., and Coe, D. 2018. Post-fire land management: Comparative effects of different strategies on hillslope sediment yield and vegetative recovery. *39th Annual Forest Vegetation Management Conference*. Jan. 16–18, 2018. Anderson, CA.

- **Bladon, K.D.**, Bywater-Reyes, S., LeBoldus, J.M., Segura, C., Ritokova, G., and Shaw, D.C. 2017. Increased annual runoff ratios in Pacific Northwest catchments impacted by epidemic foliage disease of Douglas-fir. *American Geophysical Meeting Fall Meeting*. Dec. 11–15, 2017, New Orleans, LA.
- Dymond, S.F., **Bladon, K.D.**, McDonnell, J.J., and McNamara, J.P. 2017. Rainfall-runoff relationships and tree water use in a coast redwood forest. *American Geophysical Meeting Fall Meeting*. Dec. 11–15, 2017, New Orleans, LA.
- \*Steadman, C.L., **Bladon, K.D.**, Argerich, A., and Johnson, S.L. 2017. An evaluation of nitrogen and phosphorus responses to rain events in a forested watershed. *American Geophysical Meeting Fall Meeting*. Dec. 11–15, 2017, New Orleans, LA.
- Bywater-Reyes, S., **Bladon, K.D.**, and Segura, C. 2017. Relative influence of landscape variables, discharge, and forest management on sediment yields in temperate mountain catchments. *Geological Society of America Annual Meeting*. Oct. 22–25, 2017, Seattle, WA.
- Segura, C., **Bladon, K.D.**, Hatten, J.A., Bywater-Reyes, S., Cook, N.A., and Reiter, M. 2017. Stream temperature and sediment impacts in managed forests. California Licensed Foresters Association Fall Workshop. Sep. 8, 2017, Chico, CA.
- \*Jarecke, K.M., Wondzell, S.M., and **Bladon, K.D.** 2017. Soil-water vegetation: The role of sub-watershed scale topography and hydrologic connectivity. *H.J. Andrews Forest LTER NSF Midterm Review*. Aug. 2, 2017. Blue River, OR.
- LeBoldus, J.M., **Bladon, K.D.**, \*Bywater-Reyes, S., Segura, C., Ritóková, G., and Shaw, D.C. 2017. The effects of Swiss needle cast foliage disease on annual streamflow in western Oregon. *Swiss Needle Cast Cooperative Quarterly Meeting*. Jul. 27, 2017. Corvallis, OR.
- Segura, C., **Bladon, K.D.**, \*Cook, N.A., \*Bywater-Reyes, S., and Reiter, M. 2017. Studies of the impacts of contemporary forest management on stream temperature in western Oregon. *National Council for Air and Stream Improvement Annual Meeting*. Jul. 14, 2017. Eugene, OR.
- **Bladon, K.D.** 2017. Hydrology, water quality, and aquatic ecosystem responses to wildfire and post-fire land management. *OSU Fire Symposium*. May 5, 2017. Corvallis, OR.
- \*Robinne, F.-N., Parisien, M.-A., Flannigan, M., Miller, C., and **Bladon, K.D.** 2017. A global evaluation of wildfire risks to human and environmental water security. *European Geophysical Union Meeting*. Apr. 23–28, 2017. Vienna, Austria.
- \*Jarecke, K.M., Wondzell, S.M., and **Bladon, K.D.** 2017. Topographic influences on soil moisture availability in the western Cascades of central Oregon. *Western Forestry Graduate Research Symposium*. Apr. 21, 2017. Corvallis, OR.
- \*Bywater-Reyes, S., Segura, C., and **Bladon, K.D.** 2017. Relative influence of landscape physiography, hydrologic conditions, and land management on sediment yield in a temperate mountain watershed. *U.S. Geological Survey Assessing Trends in Sediment Processes in Puget Sound Watersheds Workshop*. Apr. 11–12, 2017, Seattle, WA.
- \*Cook, N.A., **Bladon, K.D.**, and Segura, C. 2016. An analysis of the downstream propagation of stream temperature changes following headwater forest management in western Oregon. *American Geophysical Union Fall Meeting*, Dec. 12–16, 2016. San Francisco, CA.
- Stone, M., Emelko, M.B., Silins, U., Collins, A.L., \*Williams, C.H.S., Martens, A.M., and **Bladon, K.D.** 2016. The impact of wildfire on phosphorus speciation and sorption behavior of sediment in Alberta rivers. *IAGLR 59th Annual Conference on Great Lakes Research*. Jun. 6–10, 2016. Guelph, ON.

- \*Puntenney, K.C., **Bladon, K.D.**, and Silins, U. 2016. Quantifying shallow subsurface runoff and sediment transport through forested buffers in the Rocky Mountains. *Western Forestry Graduate Research Symposium*. Apr. 22, 2016. Corvallis, OR.
- \*Puntenney, K.C., **Bladon, K.D.**, and Silins, U. 2016. Putting riparian buffers to the test: The influence of antecedent soil moisture on runoff and sediment transport during high intensity precipitation events. *6th Annual Hydrophiles Water Research Symposium*. Apr. 18–19, 2016. Corvallis, OR.
- \*Puntenney, K.C., **Bladon, K.D.**, and Silins, U. 2016. Runoff and sediment transport through riparian buffers in a Rocky Mountain headwater catchment. *36<sup>th</sup> American Geophysical Union Hydrology Days*. Mar. 21–23, 2016. Fort Collins, CO.
- Stone, M., Silins, U., Emelko, M.B., **Bladon, K.D.**, Martens, A.M., \*Williams, C.H.S., and Collins, A.L. 2015. Exploring the linkage between fine sediment, phosphorus, and stream ecology in wildfire impacted watersheds. *9<sup>th</sup> International SedNet Conference - Solving Societal Challenges: Working With Sediments*. Sept. 23–26, 2015. Krakow, Poland.
- **Bladon, K.D.**, Winkler, A.D., and Ganio, L.M. 2015. In-stream phosphorus and nitrogen response to logging in high elevation, forested catchments. *IUFRO 4<sup>th</sup> International Conference on Forests and Water in a Changing Environment*. Jul. 6–9, 2015. Kelowna, BC.
- \*Spencer, S.A., Anderson, A., Silins, U., **Bladon, K.D.**, and Collins, A.L. 2015. Groundwater-surface water interactions in a Rocky Mountain catchment in Alberta, Canada. *IUFRO 4<sup>th</sup> International Conference on Forests and Water in a Changing Environment*. Jul. 6–9, 2015. Kelowna, BC.
- Segura, C., and **Bladon, K.D.** 2015. Investigation of the scaling properties of the rainfall runoff generation processes and its relation to nutrient flushing mechanisms in the Oregon Cascade Mountains: A nested approach. *IUFRO 4<sup>th</sup> International Conference on Forests and Water in a Changing Environment*. Jul. 6–9, 2015. Kelowna, BC.
- \*Robinne, F.-N., Flannigan, M.D., Parisien, M.-A., Bladon, K.D., Miller, C., Emelko, M.B., and Silins, U. 2015. Provincial-scale assessment of fire risks to water resources. *IUFRO 4<sup>th</sup> International Conference on Forests and Water in a Changing Environment*. Jul. 6–9, 2015. Kelowna, BC.
- Silins, U., **Bladon, K.D.**, Emelko, M.B., and Stone, M. 2015. Mitigating the impacts of events 1: Active source water protection through watershed management. *AWWOA Workshop – Fires, Floods and Other Extreme Events: Is Your Utility Ready?* Mar. 9, 2015. Banff, AB.
- Emelko, M.B., Stone, M., Silins, U., and **Bladon, K.D.** 2014. Wildfire impacts on sediment and nutrient storage and downstream delivery to drinking water treatment plants. *ICCE/IAHS International Symposium on Sediment Dynamics: From the Summit to the Sea*. Dec. 11–14, 2014. New Orleans, LA.
- Silins, U., **Bladon, K.D.**, Wang, X., Robinne, F.-N., Emelko, M.B., Flannigan, M.D., Dupont, D.P., Parisien, M.-A., Thompson, D.K., Tymstra, C., Schroeder, D., Kienzle, S.W., Reid, D., Waddington, J.M., Woolford, D.G., and Wotton, B.M. 2014. Management of wildfire risk in forested regions of Alberta to downstream municipal drinking water treatment. *Wildland Fire Canada Conference*. Oct. 7–9, 2014. Halifax, NS.
- Emelko, M.B., Silins, U., **Bladon, K.D.**, and Stone, M. 2014. Linking upstream watershed activity/disturbance to downstream treatment performance. *OWWA Spring Treatment Seminar*. March 27, 2014. Vaughan, ON.
- \*Shams, S., Emelko, M.B., Silins, U., **Bladon, K.D.**, Stone, M., Williams, C.H.S., and Martens, A.M. 2014. Long-term wildfire impacts on THM formation potential. *248<sup>th</sup> American Chemical Society National Meeting*. Aug. 10–14, 2014. San Francisco, CA.
- **Bladon, K.D.**, Silins, U., Flannigan, M.D., Emelko, M.B., Dupont, D.P., Kienzle, S.W., Parisien, M.-A., Schroeder, D., Thompson, D.K., Tymstra, C., Waddington, J.M., Wang, X., Woolford, D.G., and

- Wotton, B.M. 2013. Management of wildfire risk in forested regions of Alberta to downstream municipal drinking water treatment. *AWRA Healthy Forests=Healthy Waters Conference*. Jun. 27–28, 2013. Hartford, CT.
- Anderson, A., Silins, U., **Bladon, K.D.**, Emelko, M.B., and Stone, M. 2013. Towards science, policy and management of healthy forests to protect critical water supplies. *AWRA Healthy Forests = Healthy Waters Conference*. Jun. 27–28, 2013. Hartford, CT.
  - Emelko, M.B., Silins, U., Stone, M., **Bladon, K.D.**, Wagner, M.J., \*Williams, C.H.S., and Martens, A.M. 2013. Long-term implications of wildfire to drinking water treatment. *AWRA Healthy Forests = Healthy Waters Conference*. Jun. 27–28, 2013. Hartford, CT.
  - Stone, M., Krishnappan, B.G., Silins, U., Emelko, M.B., Collins, A.L., and **Bladon, K.D.** 2013. Modeling flow and sediment transport in three rivers and a reservoir in the upper basin of the Oldman River watershed in Alberta, Canada. *AWRA Healthy Forests = Healthy Waters Conference*. Jun. 27–28, 2013. Hartford, CT.
  - Silins, U., **Bladon, K.D.**, Wagner, M.J., \*Williams, C.H.S., Martens, A.M., Stone, M., Emelko, M.B., Anderson, A., Collins, A.L., and Krishnappan, B.G. 2013. Shifting disturbance regimes in forested source water landscapes in Alberta's Rocky Mountains: Long-term impacts of wildfire on water quantity, quality, and stream ecology. *AWRA Healthy Forests = Healthy Waters Conference*. Jun. 27–28, 2013. Hartford, CT.
  - **Bladon, K.D.**, Silins, U., Flannigan, M.D., Emelko, M.B., Dupont, D.P., Kienzle, S.W., Parisien, M.-A., Schroeder, D., Thompson, D.K., Tymstra, C., Waddington, J.M., Wang, X., Woolford, D.G., and Wotton, B.M. 2013. Integrated watershed management to identify and mitigate wildfire risk in forested regions of Alberta to downstream drinking water treatment. *CMOS-CGU-CWRA Congress*. May 26–30, 2013. Saskatoon, SK.
  - **Bladon, K.D.**, Silins, U., Dixon, J., and Emelko, M.B. 2012. Historical analysis of water quantity and quality in the Elbow River watershed, Alberta, Canada. *American Geophysical Union Fall Meeting*. Dec. 3–7, 2012. San Francisco, CA.
  - Emelko, M.B., Geng, K., **Bladon, K.D.**, and Silins, U. Climate change effects in Canadian source watersheds: Implications to NOM character and treatability. *15<sup>th</sup> Canadian National Conference and 6<sup>th</sup> Policy Forum on Drinking Water*. Oct. 21–24, 2012. Kelowna, BC.
  - **Bladon, K.D.**, Silins, U., Stone, M., Emelko, M.B., Boon, S., Williams, C.H.S., and Wagner, M.J., 2012. Limiting nutrients, algae, and macroinvertebrates: A cascading series of ecohydrological effects after wildfire in Canada's Rocky Mountains. *IAHS-ICCE International Conference. Wildfire and Water Quality: Process, Impacts and Challenges*. Jun. 11–15, 2012. Banff, AB.
  - **Bladon, K.D.**, Silins, U., Stone, M., Boon, S., Emelko, M.B., Williams, C.H.S., and Wagner, M.J., 2012. Incomplete recovery of water quality after wildfire in Alberta's Rocky Mountains: insights from eight years of watershed research. *Canadian Water Resources Association – Canadian Geophysical Union National Conference*. Jun. 5–8, 2012. Banff, AB.
  - **Bladon, K.D.** 2009. Wildfire and salvage harvesting in the Rocky Mountains: Linked effects on water quality and aquatic ecology. *Wildfire and Watershed Hydrology Workshop*. Jun. 3–4, 2009. Kelowna, BC.
  - Silins, U., Lieffers, V., Reid D., Brabender, B., **Bladon, K.D.**, and Piña, P. 2007. Stand water balance of lodgepole pine forests in the absence of Mountain Pine Beetle: characterizing the processes of the water balance. *FORREX: Mountain Pine Beetle and Watershed Hydrology Workshop*. Jul. 20, 2007. Kelowna, BC.



- **Bladon, K.D.**, Lieffers, V.J., Silins, U., and Landhäusser, S. 2006. A health check-up for three tree species following variable retention harvesting in boreal mixedwoods. *SFMN Conference – Sustaining Canada’s Forests: Building Momentum*. Jun. 20–22, 2006. Edmonton, AB.
- **Bladon, K.D.**, Silins, U., Landhäusser, S., and Lieffers, V.J. 2006. Differential ecophysiological responses of three boreal trees species following variable retention harvesting. *IUFRO Uneven-aged Silviculture Research Group 1.14.00 5th Conference and Field Tour*. May 14–18, 2006. Rouyn-Noranda, QC.
- **Bladon, K.D.**, Silins, U., Landhäusser, S., and Lieffers, V.J. 2006. Differential atmospheric and autecological controls of transpiration in three boreal tree species. *5th CGU Hydrology Section Student Conference*. May 8, 2006. Edmonton, AB.
- **Bladon, K.D.**, Lieffers, V.J., Silins, U., and Landhäusser, S. 2006. Status report: Mortality of residual in mixedwood cutovers. *SFMN Partners Working Group*. Apr. 9, 2006. Edmonton, AB.
- **Bladon, K.D.**, Silins, U., and Lieffers, V.J. 2005. Residual tree water use in response to microclimate change in boreal mixedwood green-tree retention strategies. *5th North American Forest Ecology Workshop*. Jun. 12–16, 2005. Aylmer, QC.
- **Bladon, K.D.**, Silins, U., and Lieffers, V.J. 2005. Increased atmospheric moisture demand and variable transpiration rates following green-tree retention harvesting in boreal mixedwood forest. *Canadian Geophysical Union Annual Meeting*. May 8–11, 2005. Banff, AB.
- **Bladon, K.D.**, Silins, U., and Lieffers, V.J. 2004. Differential atmospheric controls on transpiration of boreal trees: A potential factor in pre-mature tree mortality in green-tree retention strategies. *Canadian Geophysical Union / American Geophysical Union 2004 Joint Assembly*. May 17–21, 2004. Montreal, QC. **‘BEST STUDENT PAPER’ (ALL FIELDS)**.

## Poster Presentations (\* Graduate student)

- Grieger, S., **Bladon, K.D.**, Myers-Pigg, A., and Bailey, J.D. 2021. An experimental assessment of the comparative role of combustion conditions, burn severity, and fuel types on post-fire vegetation biochemistry. American Geophysical Union Fall Meeting. Dec. 13–17, 2021, New Orleans, LA.
- Roebuck, A., Myers-Pigg, A., Donahue, D., Grieger, S., Eckert, L., Morgenstern, K., Fricke, S., and **Bladon, K.D.** 2021. Spatio-temporal response of pyrogenic dissolved organic matter in five streams following a wildfire. American Geophysical Union Fall Meeting. Dec. 13–17, 2021, New Orleans, LA.
- Dymond, S.F., **Bladon, K.D.**, Keppeler, E.T., and Wagenbrenner, J.W., 2021. Impacts of forest disturbance on evapotranspiration and source water appropriation in a Coastal Montane Forest. Society of American Foresters National Convention. Nov. 3–7, 2021. Sacramento, CA.
- Graham, E.B., Song, H.-S., Grieger, S., Garayburu-Caruso, V., Stegen, J.C., **Bladon, K.D.**, and Myers-Pigg, A.N. 2021. Inferred bioavailability of pyrogenic organic matter in comparison to natural organic matter from global sediments and surface waters. European Geophysical Union General Assembly. Apr. 19–30, 2021, Virtual.
- \*Wampler, K.A., **Bladon, K.D.**, and Faramarzi, M. 2021. Predicting source water quality following wildfires using hydrologic modeling. European Geophysical Union General Assembly. Apr. 19–30, 2021, Virtual.
- \*Jarecke, K.M., Wondzell, S.M., and **Bladon, K.D.** 2020. The effect of atmospheric demand and soil moisture deficits on tree growth and physiological water stress: Implications for the future of forest management. American Geophysical Union Fall Meeting. Dec. 7–18, 2020, San Francisco, CA (virtual).

- Wagenbrenner, J.W., Coe, D., Faubion, C., Robichaud, P.R., Brown, R.E., Olsen, W., **Bladon, K.D.**, Gonzalez-Romero, J., Lucas-Borja, M.E. 2020. Alternative methods for reducing sediment delivery from skid trails used for post-fire logging. American Geophysical Union Fall Meeting. Dec. 7–18, 2020, San Francisco, CA (virtual).
- \*Wissler, A., **Bladon, K.D.**, and Segura, C. 2020. Comparing headwater stream thermal sensitivity across two contrasting lithologies in Northern California, USA. American Geophysical Union Fall Meeting. Dec. 7–18, 2020, San Francisco, CA (virtual).
- **Bladon, K.D.**, Dymond, S.F., Wagenbrenner, J.W., Keppeler, E.T., and McDonnell, J.J. 2019. Stable isotope composition of soil water, groundwater, streams, and trees of the California Northern Coast Range. American Geophysical Union Fall Meeting. Dec. 9–13, 2019, San Francisco, CA.
- **Bladon, K.D.**, Segura, C., Hatten, J.A., and Warren, D. 2019. The Alsea Watershed Study – Original and Revisited. American Geophysical Union Fall Meeting. Dec. 9–13, 2019, San Francisco, CA.
- Dymond, S.F., **Bladon, K.D.**, Keppeler, E.T., and Wagenbrenner, J.W. 2019. Differential soil moisture and groundwater responses to precipitation events across hillslope transects in a California coastal forest. American Geophysical Union Fall Meeting. Dec. 9–13, 2019, San Francisco, CA.
- \*Jarecke, K.M., Wondzell, S.M., and **Bladon, K.D.** 2019. Determining the effect of topography on soil moisture availability in steep, variable terrain. American Geophysical Union Fall Meeting. Dec. 9–13, 2019, San Francisco, CA.
- \*Pate, A.A., Segura, C., and **Bladon, K.D.** 2019. Headwater dynamics: Quantifying spatial differences in flow permanence and network connectivity across diverse landscapes. American Geophysical Union Fall Meeting. Dec. 9–13, 2019, San Francisco, CA.
- Woodsmith, R.D., Niemeyer, R.J., **Bladon, K.D.**, and Peterson, D.W. 2019. The Entiat Experimental Forest: Evaluating short- and long-term effects of wildfire on water quality and quantity and forest recovery. 8th International Fire Ecology and Management Congress. Nov. 18–22, 2019. Tucson, AZ.
- Dymond, S.F., **Bladon, K.D.**, Keppeler, E.T., and Wagenbrenner, J.W. 2019. Drying and wetting characteristics of hillslopes in a California coastal forest. Gordon Research Conference, Catchment Science: Interactions of Hydrology, Biology, and Geochemistry. Jun. 23–28, 2019. Andover, NH.
- **Bladon, K.D.**, \*Cole, R.P., Wagenbrenner, J.W., and Coe, D. 2018. Wildfire and post-fire forest management impacts on soil water content in California's Northern Coast Range. *American Geophysical Union Fall Meeting*. Dec. 10–14, 2018, Washington, DC.
- \*Cole, R.P., **Bladon, K.D.**, Wagenbrenner, J.W., and Coe, D. 2018. Hillslope erosion and sediment yield after wildfire and post-fire forest management in California's Northern Coast Range. *American Geophysical Union Fall Meeting*. Dec. 10–14, 2018, Washington, DC.
- Dymond, S.F., **Bladon, K.D.**, Keppeler, E.T., and Wagenbrenner, J.W. 2018. Hillslope soil moisture patterns across wet and dry conditions in a California montane forest. *American Geophysical Union Fall Meeting*. Dec. 10–14, 2018, Washington, DC.
- Hallema, D.W., Sun, G., Caldwell, P.V., Robinne, F.-N., **Bladon, K.D.**, Mordecai, R.S., Saia, S.M., and McNulty, S.G. 2018. Machine learning in wildfire-linked water supply risk assessment: Data science toolkit. *American Geophysical Union Fall Meeting*. Dec. 10–14, 2018, Washington, DC.
- \*Jarecke, K.M., **Bladon, K.D.**, and Wondzell, S.M. 2018. Quantifying plant-available soil moisture in topographically complex terrain. *American Geophysical Union Fall Meeting*. Dec. 10–14, 2018, Washington, DC.
- Niemeyer, R.J., **Bladon, K.D.**, and Woodsmith, R.D. 2018. Short- and long-term hydrologic recovery after wildfire in the interior Pacific Northwest. *American Geophysical Union Fall Meeting*. Dec. 10–14, 2018, Washington, DC.

- Robinne, F.-N., Hallema, D.W., Sun, G., **Bladon, K.D.** 2018. Natural and social aspects of global wildfire threats to water supplies. *American Geophysical Union Fall Meeting*. Dec. 10–14, 2018, Washington, DC.
- \*Ruud, D., **Bladon, K.D.**, Hatten, J.A., SanClements, M.D., Strahm, B.D., Matosziuk, L.M., and Egan, J. 2018. The effects of wildfire on soil hydraulic properties and organic matter in an Appalachian hardwood forest. *American Geophysical Union Fall Meeting*. Dec. 10–14, 2018, Washington, DC.
- Wagenbrenner, J.W., Olsen, W.H., \*Cole, R.P., Coe, D., Robichaud, P.R., and **Bladon, K.D.** 2018. Runoff and sediment delivery from small, burned headwater catchments in California. *American Geophysical Union Fall Meeting*. Dec. 10–14, 2018, Washington, DC.
- Robinne, F.-N., Hallema, D.W., and **Bladon, K.D.** 2018. Wildfire impacts on hydrologic systems: State of the knowledge in high-latitude forests in North America. *IUFRO Joint Conference on Forests and Water*. Nov. 5–9, 2018. Valdivia, Chile.
- Robinne, F.-N., Hallema, D.W., Sun, G., **Bladon, K.D.** 2018. Global water security: wildfire risk and society. *Terrestrial Ecosystems and Agricultural and Forest Meteorology Symposium (TEAFM)*. Oct. 26–28, 2018, Nanjing, Jiangsu Province, People's Republic of China.
- \*Jarecke, K.M., **Bladon, K.D.**, and Wondzell, S.M. 2018. Topography-soil relations in steep, variable terrain: Implications for soil water storage. *Andrews Forest Long-Term Ecological Research (LTER) Symposium*. Jun. 1, 2018. Corvallis, OR.
- \*Pate, A.A., Segura, C., and **Bladon, K.D.** 2018. Multiscale investigation of perennial flow and thermal influence of headwater streams into fish bearing systems in California. *8th Annual Pacific Northwest Water Research Symposium*. Apr. 23–24, 2018. Corvallis, OR.
- \*Pate, A.A., Segura, C., and **Bladon, K.D.** 2018. Flow Permanence and Riparian Buffers of Headwater Streams into Anadromous Salmonid Protection (ASP) Area in California. *Western Forestry Graduate Research Symposium*. Apr. 13, 2018. Corvallis, OR.
- \*Martens, A.M., Silins, U., Emelko, M.B., Stone, M., **Bladon, K.D.**, Williams, C.H.S., Wagner, M.J., Proctor, H.C., Luchkow, E., and Herlein, K. 2018. The Lost Creek Wildfire: Long-term impacts on aquatic ecology. *Canadian Conference for Fisheries Research*. Jan. 4–7, 2018. Edmonton, AB.
- \*Cole, R.P., **Bladon, K.D.**, Wagenbrenner, J.W., and Coe, D. 2017. Post-fire land management: Comparative effects of different strategies on hillslope sediment yield. *American Geophysical Meeting Fall Meeting*. Dec. 11–15, 2017, New Orleans, LA.
- \*Rachels, A.A., **Bladon, K.D.**, and Bywater-Reyes, S. 2017. Quantifying ratios of suspended sediment sources in forested headwater streams following timber-harvesting operations. *American Geophysical Meeting Fall Meeting*. Dec. 11–15, 2017, New Orleans, LA.
- \*Cole, R.P., **Bladon, K.D.**, Wagenbrenner, J.W., and Coe, D. 2017. Comparative effects of different post-fire land management strategies on hillslope sediment yield. *Geological Society of America Annual Meeting*. Oct. 22–25, 2017, Seattle, WA.
- \*Rachels, A.A., **Bladon, K.D.**, and \*Bywater-Reyes, S. 2017. Determining the sources of suspended sediment in Oregon Coast Range headwater streams following forest-harvesting operations. *Geological Society of America Annual Meeting*. Oct. 22–25, 2017, Seattle, WA.
- \*Jarecke, K.M., Wondzell, S.M., and **Bladon, K.D.** 2017. Topographic influences on spatiotemporal variability of soil moisture in the Western Cascades of Central Oregon. *Ecological Society of America 102nd Annual Meeting*. Aug. 6–11, 2017. Portland, OR.
- **Bladon, K.D.**, and \*Cole, R.P. 2017. Soil hydraulic properties and subsurface flow pathways following wildfire in the Cascade Mountains, Oregon. *Canadian Geophysical Union Annual Meeting*. May 29–31, 2017. Vancouver, BC.

- Martens, A.M., Silins, U., **Bladon, K.D.**, \*Williams, C.H.S., Wagner, M.J., and Luchkow, E. 2017. Stable isotope analysis of food web dynamics in aquatic ecosystems following severe wildfire in Alberta's Rocky Mountains. *Canadian Geophysical Union Annual Meeting*. May 29–31, 2017. Vancouver, BC.
- \*Williams, C.H.S., Silins, U., **Bladon, K.D.**, and Anderson, A. 2017. Muted rainfall-runoff response to increased net rainfall after wildfire in Alberta's mountain headwaters. *Canadian Geophysical Union Annual Meeting*. May 29–31, 2017. Vancouver, BC.
- Hallema, D.W., Sun, G., Caldwell, P.V., Norman, S.P., Cohen, E.C., Liu, Y., **Bladon, K.D.**, Moussa, R., and McNulty, S.G. 2017. Contribution of wildland fires to water supply augmentation in the lower 48 states. *NC State University 6th Annual Postdoctoral Research Symposium*. May 24, 2017. Raleigh, NC.
- \*Robinne, F.-N., Parisien, M.-A., Flannigan, M.D., Miller, C., and **Bladon, K.D.** 2017. Creating a spatially-explicit index: A method for assessing the global wildfire-water risk. *European Geophysical Union General Assembly*. Apr. 23–28, 2017. Vienna, Austria.
- \*Rachels, A.A., **Bladon, K.D.**, and Bywater-Reyes, S. 2017. Quantifying ratios of suspended sediment sources in forested headwater streams following timber harvest operations. *Western Forestry Graduate Research Symposium*. Apr. 21, 2017. Corvallis, OR.
- \*Steadman, C.L., **Bladon, K.D.**, Argerich, A., and Johnson, S.L. 2017. Spatial and temporal variability of stream water nitrogen and phosphorus in a forested Oregon Coast Range watershed. *Western Forestry Graduate Research Symposium*. Apr. 21, 2017. Corvallis, OR.
- \*Rachels, A.A., **Bladon, K.D.**, and Bywater-Reyes, S. 2017. Identifying the primary sources of suspended sediment in Oregon Coast Range headwater streams following forest harvesting. *7th Annual Pacific Northwest Water Research Symposium*. Mar. 6–7, 2017. Corvallis, OR.
- \*Steadman, C.L., **Bladon, K.D.**, Argerich, A., and Johnson, S.L. 2017. Geological and hydrological influences on nitrogen and phosphorus concentrations in forested headwater catchments of the northern coast range of Oregon. *7th Annual Pacific Northwest Water Research Symposium*. Mar. 6–7, 2017. Corvallis, OR.
- Robinne, F.-N., Miller, C., Parisien, M.-A., **Bladon, K.D.**, Emelko, M.B., Silins, U., and Flannigan, M.D. 2017. A spatial evaluation of wildfire-water risks to human and natural systems at a global scale. *Spatial Knowledge and Information - Canada*. Feb. 23–25, 2017. Banff, AB.
- **Bladon, K.D.**, and \*Cole, R. 2016. Wildfire effects on soil hydraulic properties and subsurface flow pathways in southwestern Oregon. *American Geophysical Union Fall Meeting*. Dec. 12–16, 2016. San Francisco, CA.
- \*Bywater-Reyes, S., Segura, C., and **Bladon, K.D.** 2016. Non-stationary suspended sediment dynamics in western Oregon: From temporal patterns to processes and controls. *American Geophysical Union Fall Meeting*. Dec. 12–16, 2016. San Francisco, CA.
- Dymond, S.F., Miniati, C.F., **Bladon, K.D.**, Keppeler, E.T., and Caldwell, P.V. 2016. Disentangling the response of streamflow to forest management and climate. *American Geophysical Union Fall Meeting*. Dec. 12–16, 2016. San Francisco, CA.
- \*Jarecke, K.M., **Bladon, K.D.**, and Wondzell, S.M. 2016. Spatiotemporal variability of hillslope soil moisture across steep, highly dissected topography. *American Geophysical Union Fall Meeting*. Dec. 12–16, 2016. San Francisco, CA.
- \*Puntenney, K.C., **Bladon, K.D.**, and Silins, U. 2016. Surface runoff and sediment transport through a riparian buffer of a steep Rocky Mountain catchment. *American Geophysical Union Fall Meeting*. Dec. 12–16, 2016. San Francisco, CA.

- \*Steadman, C.L., **Bladon, K.D.**, Argerich, A., and Johnson, S.L. 2016. Spatial and temporal heterogeneity of nitrogen in headwater catchments of the Northern Coast Range of Oregon. *American Geophysical Union Fall Meeting*. Dec. 12–16, 2016. San Francisco, CA.
- \*Steadman, C.L., Argerich, A., **Bladon, K.D.**, and Johnson, S.L. 2016. Early trajectory of chemical water quality response to disturbance by forest harvesting in the Northern Coast Range of Oregon. *Society for Freshwater Science*. May. 21–26, 2016. Sacramento, CA.
- \*Jarecke, K.M., Wondzell, S.M., and **Bladon, K.D.** 2016. How do topography and soils interact to influence the spatiotemporal variability of hillslope soil moisture and soil-water retention at the H.J. Andrews Experimental Forest? *Western Forestry Graduate Research Symposium*. Apr. 22, 2016. Corvallis, OR.
- \*Steadman, C.L., Argerich, A., **Bladon, K.D.**, and Johnson, S.L. 2016. Effects of disturbance by forest harvesting on limiting nutrients in the Trask Watershed of the northern Coast Range of Oregon. *Western Forestry Graduate Research Symposium*. Apr. 22, 2016. Corvallis, OR.
- \*Jarecke, K.M., Wondzell, S.M., and **Bladon, K.D.** 2016. Measuring soil moisture to understand landscape controls on soil water retention at the H.J. Andrews Experimental Forest. *6th Annual Hydrophiles Water Research Symposium*. Apr. 18–19, 2016. Corvallis, OR.
- \*Minson, C., Segura, C., and **Bladon, K.D.** 2016. A preliminary analysis of micrometeorological data collected at two elevations in the McDonald Research Forest. *6th Annual Hydrophiles Water Research Symposium*. Apr. 18–19, 2016. Corvallis, OR.
- \*Steadman, C.L., **Bladon, K.D.**, Argerich, A., and Johnson, S.L. 2016. Spatial and temporal variability of nitrogen and phosphorus in headwater catchments of the northern Coast Range of Oregon. *6th Annual Hydrophiles Water Research Symposium*. Apr. 18–19, 2016. Corvallis, OR.
- \*Puntenney, K., **Bladon, K.D.**, and Silins, U. 2015. Forest harvesting of a Rocky Mountain headwater catchment: Assessing the impacts on runoff and sediment transport into and through riparian buffers. *American Geophysical Union Fall Meeting*. Dec. 14–18, 2015. San Francisco, CA.
- **Bladon, K.D.**, \*Cook, N.A., Light, J.T., Segura, C., and Teply, M. 2015. Spatial and temporal stream temperature response to contemporary forest harvesting in the Oregon Coast Range. *American Geophysical Union Fall Meeting*. Dec. 14–18, 2015. San Francisco, CA.
- \*Williams, C.H.S., Silins, U., **Bladon, K.D.**, Martens, A.M., Wagner, M.J., and Anderson, A. 2015. Rainfall-runoff dynamics following wildfire in mountainous headwater catchments, Alberta, Canada. *American Geophysical Union Fall Meeting*. Dec. 14–18, 2015. San Francisco, CA.
- \*Martens, A.M., Silins, U., **Bladon, K.D.**, \*Williams, C.H.S., Wagner, M.J., and Luchkow, E. 2015. Stable isotope analysis of energy dynamics in aquatic ecosystems suggests trophic shifts following severe wildfire. *American Geophysical Union Fall Meeting*. Dec. 14–18, 2015. San Francisco, CA.
- Silins, U., Emelko, M.B., **Bladon, K.D.**, \*Williams, C.H.S., Stone, M., Martens, A.M., and Wagner, M.J. 2015. Longer-term stream nitrogen dynamics after wildfire and salvage harvesting: Implications for management concepts based on trajectories of post-disturbance watershed recovery. *American Geophysical Union Fall Meeting*. Dec. 14–18, 2015. San Francisco, CA.
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## News Media Coverage and Science Podcasts

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- Trout demonstrate resilience to wildfire, OSU study finds, but researchers stress more investigation is needed. The Daily Barometer. Nov. 3, 2022. <https://dailybaro.orangemedianetwork.com/17942/daily-barometer-news/trout-demonstrate-resilience-to-wildfire-osu-study-finds-but-researchers-stress-more-investigation-is-needed/>
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- Oregon State University study: Snow cover crucial to revegetation after wildfires. The Register Guard. Eugene, Oregon. Dec. 6, 2021. <https://www.registerguard.com/story/news/environment/2021/12/06/snow-cover-crucial-revegetation-after-wildfires-climate-change-oregon-state-university-study/8820913002/>
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- Snow cover critical for revegetation following forest fires: Study finds climate change a factor in decrease of snowpack in the Western United States. Science Daily. Nov. 22, 2021. <https://www.sciencedaily.com/releases/2021/11/211122172630.htm>
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- The 'burn scars' of wildfires threaten the West's drinking water. The Bend Bulletin. Sept. 30, 2021. [https://www.bendbulletin.com/localstate/wildfires/the-burn-scars-of-wildfires-threaten-the-west-s-drinking-water/article\\_03fd5fda-e051-5e7e-b487-1a181dad4c73.html](https://www.bendbulletin.com/localstate/wildfires/the-burn-scars-of-wildfires-threaten-the-west-s-drinking-water/article_03fd5fda-e051-5e7e-b487-1a181dad4c73.html)
- Raging wildfires and 'burn scars' threaten the West's drinking water: Wildfires and their lasting effects are becoming a way of life in the West. ABC News. Sept. 28, 2021. <https://abcnews.go.com/Health/raging-wildfires-burn-scars-threaten-wests-drinking-water/story?id=80279574>
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- OSU researchers study varied impacts of Oregon's devastating fall wildfires. KTVZ News Channel 21. Mar. 10, 2021. <https://ktvz.com/news/oregon-northwest/2021/03/10/osu-researchers-study-varied-impacts-of-oregons-devastating-fall-wildfires/>
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- Everything you wanted to know about wildfire and its aftermath. Good Times. Jan. 5, 2021. <https://goodtimes.sc/cover-stories/wildfire-aftermath-questions-answered/>
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- Unsafe to drink: Wildfires threaten rural California towns with tainted water. The Press Democrat. Oct. 6, 2020. <https://www.pressdemocrat.com/article/news/unsafe-to-drink-wildfires-threaten-rural-towns-with-tainted-water/>



- Another record: Fires burn more than 4 million acres. Cal Matters. Oct. 5, 2020. <https://calmatters.org/newsletters/whatmatters/2020/10/california-fires-record-4-million-acres/>
- Unsafe to drink: Wildfires threaten rural towns with tainted water. Cal Matters. Oct. 5, 2020. <https://calmatters.org/environment/2020/10/california-wildfires-unsafe-drinking-water/>
- Wildfire and water quality. Barrett, Fox & Berry / KKNU-FM Community Forum. Oct. 5, 2020. <https://spaces.hightail.com/space/c0blgqGoef/files/fi-cb65be80-9724-40af-86be-7dcec3a782c3/fv-16483179-2968-4d23-ae64-1d9dc153d4cf/CF-Wildfire%20OSU%20Experts%20100420.mp3>
- Researchers, advocates keep an eye on McKenzie River after wildfire. KEZI 9 ABC News. Oct. 2, 2020. <https://www.kezi.com/content/news/Researchers-activists-572613711.html>
- Post-fire effects on water. Mark Mason Show KEX Portland. Oct. 1, 2020. <https://www.iheart.com/podcast/83-mark-mason-28487522/>
- Water quality could be impacted for a decade from Oregon wildfire fallout for 200k people. Salem Statesman Journal. Sep. 25, 2020. <https://www.statesmanjournal.com/story/news/2020/09/25/wildfires-salem-oregon-water-quality/5800141002/>
- Après les incendies, le casse-tête de la pollution des eaux. The Conversation FR. Feb. 23, 2020. <https://theconversation.com/apres-les-incendies-le-casse-tete-de-la-pollution-des-eaux-132046>
- Buried in mud: Wildfires threaten North American water supplies. The Conversation. Feb. 11, 2020. <https://theconversation.com/buried-in-mud-wildfires-threaten-north-american-water-supplies-130356>
- Timber harvesting results in persistent deficits in summer streamflow. News Times. Jan. 14, 2020. <https://newportnewstimes.com/article/timber-harvesting-results-in-persistent-deficits-in-summer-streamflow>
- Response to fire impacts water levels 40 years into future. Science Daily. Jan. 10, 2020. <https://www.sciencedaily.com/releases/2020/01/200110093836.htm>
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- When it comes to keeping streams cool, buffer strips help but geology rules. Phys Org. Jan. 24, 2018. <https://phys.org/news/2018-01-streams-cool-buffer-geology.html>
- After the Napa Fires, a disaster-in-waiting: Toxic ash. Wired. Oct. 29, 2017. <https://www.wired.com/story/napa-fire-ash/>
- California's fires have died out, but now comes the toxic ash. Mother Jones. Nov. 1, 2017. <https://www.motherjones.com/environment/2017/11/californias-fires-have-died-out-but-now-comes-the-toxic-ash/>

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## Major Awards

- Editors' Citation for Excellence in Refereeing – Water Resources Research 2021
- Emerald Challenge Award in Water, 23<sup>rd</sup> Annual Emerald Awards – Alberta Emerald Foundation. “This award celebrates and showcases environmental leadership in water, setting an example of environmental excellence for all to follow.” (Co-Recipient, Southern Rockies Watershed Project) 2014
- Excellence in Water Stewardship Award – The Council of the Federation, Water Stewardship Council. “This award recognizes outstanding achievement, innovative practice, and leadership in the area of water stewardship in Canada.” (Co-Recipient, Southern Rockies Watershed Project) 2014
- American Water Works Association, Water Quality and Technology Conference, Seattle, WA. Award for Best Poster 2009
- Canadian and American Geophysical Union, Montreal, QC. Award for Best Student Paper 2004

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## Post-Doctoral Scholar Mentoring

Dates	Name	PhD University
2022–Present	Dr. Hyunwoo Kang	Virginia Tech University
2021–2023	Dr. Lorraine Miralha	Arizona State University
2021–Present	Dr. David Roon	Oregon State University
2020–2020	Dr. Marcia N. Snyder	University of Georgia
2018–2019	Dr. Ryan A. Hill	Utah State University
2015–2017	Dr. Sharon Bywater-Reyes	University of Montana
2015–2016	Dr. Nicholas A. Cook	Virginia Tech University

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## Graduate Student Advising (Major Professor or Co-Advisor)

Date Graduated	Name	Degree	University
2027 (Expected)	Humyra Murshed	Ph.D.	OSU
2026 (Expected)	Katherine McCool	Ph.D.	OSU
2026 (Expected)	Katie A. Wampler	Ph.D.	OSU
2024 (Expected)	Jansen Ivie	M.S.	OSU
2024 (Expected)	Cedric Pimont	M.S.	OSU
2023 (Expected)	Katherine McCredie	M.S.	OSU
2023	Jonah Nicholas	M.S.	OSU

2021	Karla M. Jarecke	Ph.D.	OSU
2021	Austin Wissler	M.S.	OSU
2019	Ryan P. Cole	M.S.	OSU
2019	Adam A. Pate	M.S.	OSU
2018	Aaron A. Rachels	M.S.	OSU
2018	Kira C. Puntenney	M.S.	OSU
2017	Casey L. Steadman	M.S.	OSU

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## Faculty Research Assistant Mentoring

Dates	Name	University	Research Foci
2022-Present	Ryan P. Cole	OSU	Wildfire and water security
2020-2022	Brett Morrissette	OSU	Hinkle Creek post-fire
2015-2016	Douglas Bateman	OSU	Alsea Watershed Study
2015-2016	David Leer	OSU	Alsea Watershed Study

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## Graduate Student Committee Membership

Date Graduated	Name	Degree	University
2023	Ian Whidden	M.S.	OSU
2023 (Expected)	Christina Aragon	Ph.D.	OSU
2021	Dawn Urycki	Ph.D.	OSU
2021	Erik Rose	Ph.D.	OSU
2021	Ben Roberts-Pierel	Ph.D.	OSU
2021	Jared Ritchey	M.S.	OSU
2020	Fevziye Aslan	M.S.	OSU
2019	Danielle Loiselle	M.Sc.	U Alberta
2019	Sydney Weiss	M.S.	OSU
2018	Trevor Grandy	M.S.	OSU
2018	Andy Wilson	M.S.	OSU
2017	Francois-Nicolas Robinne	Ph.D.	U Alberta
2017	Phil Caruso	M.S.	OSU
2016	Jaycee Leonard	M.Ag.	OSU
2016	Marie Perrin Miller	MNR	OSU
2014	Kirk Hawthorn	M.Sc.	U Alberta

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## Undergraduate Student Mentoring

Year Mentored	Name	Year of Program	University
2022-2023	Bailey Brockamp	Sophomore	OSU
2022-Present	India Gerhardt	Junior	OSU
2021-Present	Alessandra Bertucci	Junior	OSU
2021-2022	Cedric Pimont	Junior	OSU
2020-2022	Ellen Luedloff	Junior	OSU
2019-2022	Melissa Mauk	Sophomore	OSU
2019-2020	Jonah Nicholas	Junior	OSU
2019	Samuel Zamudio	Junior	OSU
2018-2019	Kylie Brooks	Junior	OSU
2018-2019	Julian Kirchler	Junior	OSU
2017-2019	Danica Ruud	Junior (Honors Thesis)	OSU
2016-2018	Jerry Risk	Junior-Senior	OSU
2015-2018	Noah Kanzig	Junior-Senior	OSU
2015-2017	Cameron Minson	Junior	OSU
2015-2016	Ryan Cole	Senior (Honors Thesis)	OSU

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## Teaching Activities

Number	Title	Years Taught	Enrollment
<i>Oregon State University</i>			
FE 434	Forest Watershed Management	9	54, 59, 56, 63, 57, 72, 69, 75, 54
FE 436/ FE 536	Forest Disturbance Hydrology	5	11, 12, 16, 19, 30
FE 532	Forest Hydrology	6	6, 7, 11, 8, 10, 8
<i>Thompson Rivers University</i>			
ENVS 5480	Fundamentals of Hillslope Hydrology	1	6
NRSC 4110	Watershed Management	3	23, 26, 27
NRSC 4130	Fire Ecology and Management	2	27, 26
NRSC 4230	Graduating Essay in Natural Resource Sciences	3	3, 6, 5
NRSC 1120	Dendrology/Tree Physiology 1	2	32, 53
NRSC 1220	Dendrology/Tree Physiology 2	3	38, 27, 37

*University of Alberta*

RENr 350	Physical Hydrology	1	30
RENr 452	Watershed Management	2	8, 6
RENr 501	Precipitation-Runoff Relationships and Landscape Sediment Dynamics	1	4

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**External Service Activities**

- Associate Editor – Canadian Journal of Forest Research 2021-
- Committee Member: Oregon Governor’s Post-Fire Research and Monitoring Science Team 2021-
- Review Editor – Frontiers in Forests and Global Change: Forest Hydrology 2018-
- Associate Editor – Forest Ecology and Management 2017-2021
- Associate Editor – Confluence: Journal of Watershed Science and Management 2016-
- Committee Member – Catchment Hydrology (formerly Surface Water) Technical Committee, American Geophysical Union 2016-
- Representative for Oregon State University – Consortium of Universities for the Advancement of Hydrological Science 2014-2016
- Ad hoc Proposal Reviewer: Canadian Foundation for Climate and Atmospheric Sciences, MITACS, National Science Foundation (NSF), Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grants, NSERC Collaborative Research and Development Grants 2006-
- Journal Peer Reviewer (68 reviews to date): Canadian Journal of Forest Research, Earth Surface Processes & Landforms, Ecohydrology, Environmental Pollution, Environmental Science & Technology (ES&T), Fire Ecology, Forests, Forest Ecology and Management, Global Change Biology, Hydrological Processes, International Journal of Wildland Fire, Journal of the American Water Resources Association, Journal of Ecology and Management, Journal of Environmental Quality, Journal of Hydrology, Journal of Soils and Sediments, PLOS ONE, Science of the Total Environment, Streamline, Water, Water Research, Water Resources Research 2002-
- Association of British Columbia Forestry Professionals Credentials Committee (Dendrology) 2010-2012
- CGU-HS - D.M. Gray Best Student Paper in Hydrology Award Committee 2007-2008
- CGU-HS - Campbell Scientific Best Student Paper in Hydrology Award Committee 2007-2008

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**Conference and Workshop Organization**

- Water Quality and Economic Benefits of Forested Watershed Protection, Water Research Foundation Grant, San Francisco, CA 2015
- Wildfire and Watershed Hydrology Workshop, Kelowna, BC (77 participants) 2009
- Mountain Pine Beetle and Water Management Workshop, Kelowna, BC (79 participants) 2009

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## Conference Session Organization

- American Geophysical Union Fall Meeting, Session on *Point-to Catchment-Scale Effects of Wildfire on Hydrology, Water Resources, and Ecosystems*, co-conveners: Joseph W. Wagenbrenner (USFS PSW), Alicia Kinoshita (San Diego State University), Michelle E Newcomer (Lawrence Berkeley National Laboratory), Daniel D. Cadol (New Mexico Institute of Mining and Technology), Nina Oakley (Desert Research Institute), Brendan P. Murphy (Simon Fraser University), San Francisco, CA (virtual). 2020
- American Geophysical Union Fall Meeting, Session on *Wildfire Effects on Water Resources, Natural Hazards, and Ecosystems*, co-conveners: Nina Oakley (Desert Research Institute), Ryan J. Niemeyer (University of California Santa Barbara), and Alicia Kinoshita (San Diego State University), San Francisco, CA 2019
- American Geophysical Union Fall Meeting, Session on *Hydrologic, Geomorphic, and Biogeochemical Effects of Wildfire*, co-conveners: Francis Rengers (USGS), Joe Wagenbrenner (USFS PSW), & Luke McGuire (University of Arizona), Washington, DC 2018
- American Geophysical Union Fall Meeting, Session on *Comparative Disturbance Hydrology: Hydrologic and Geomorphic Effects of Wildland Fire & Other Disturbances from Point to Regional Scales*, co-conveners: Brian A. Ebel (USGS), Joe W. Wagenbrenner (USFS PSW), and Nicolas Zegre (West Virginia University), New Orleans, LA 2017
- American Geophysical Union Fall Meeting, Session on *Disturbance Hydrology: Exploring Immediate and Long-term Impacts of Abrupt Changes on Hydrological Processes and Earth Systems*, co-conveners: Christian Mohr (University of Potsdam), Joseph W. Wagenbrenner (USFS PSW), and Nicolas Zegre (West Virginia University), San Francisco, CA 2016
- American Geophysical Union Fall Meeting, Session on *Interactions of Land Management, Wildfire, and Water at Multiple Scales*, co-conveners: Ge Sun (USDA Forest Service) and Li Chen (Desert Research Institute), San Francisco, CA 2014

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## Oregon State University Service

- Committee Member: Faculty Planning Committee (FPC), McDonald and Dunn Research Forests Management Plan, College of Forestry, OSU 2022
- Committee Member: Search Committee for Coordinator of Targeted Research, College of Forestry, OSU 2022
- Committee Chair: Search Committee for Director of Student Success, College of Forestry, OSU 2022
- Committee Chair: Search committee for Office Support Staff 2 (OSII), Department of Forest Engineering, Resources, and Management, OSU 2022
- Committee Support: Promotion and Tenure Committee, Student summaries of teaching and mentoring for faculty tenure packages, Department of Forest Engineering, Resources, and Management, OSU 2022
- Committee Member: Search committee for Office Support Staff 2 (OSII), Department of Forest Engineering, Resources, and Management, OSU 2021

- Committee Chair: Search committee for Assistant Professor (Senior Research) for Fire Mapping Program Director, Department of Forest Engineering, Resources, and Management, OSU 2021
- Committee Member: Forestry Executive Committee, College of Forestry, OSU 2020-
- Committee Member: Fall Retreat Planning Committee, College of Forestry, OSU 2020-2022
- Committee Chair: Diversity, Equity, and Inclusion, Recruitment and Retention Sub-Committee, College of Forestry 2019-2021
- Lead: Forest Soil and Watershed Processes Area of Concentration for the Sustainable Forest Management Graduate Major, Department of Forest Engineering, Resources, and Management 2019-2021
- Committee Member: Search committee for Assistant Professor of Global Change and Conservation in Forested Biomes, Department of Forest Ecosystems and Society 2019-2020
- Committee Member: Water Resources Graduate Program Steering Committee, College of Forestry 2018-
- Committee Member: Research Day Planning Committee, College of Forestry 2018
- Committee Member: Diversity, Equity, and Inclusion Committee, College of Forestry 2017-
- Committee Member: Promotion and Tenure Committee, FERM Department 2016-2018
- Committee Member: Task Force on Water, Oregon State University 2015
- Committee Member: Watersheds Research Cooperative (WRC) Communications Committee, College of Forestry 2015
- Committee Member: Forest Science Complex Steering Committee, College of Forestry 2015
- Committee Member: Forest Watershed Hydrology Extension Specialist Search Committee, FERM Department 2015
- Committee Member: Research Associate Search Committee, Center for Intensive Planted-forest Silviculture (CIPS), FERM Department 2015

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## Professional Development

- LEAD21 Core Curriculum Program: Academic Leadership for the 21st Century. One-year academic leadership program to develop core leadership abilities in communicating effectively, managing conflict, fostering collaboration, and leading change. Class 18 Participant and Graduate. 2021–2022
- OSU Entering Mentoring: Mentoring Curriculum Series for Faculty (Trained Mentor) 2021
- Crucial Conversations: For Mastering Dialogue 2021
- OSU Training: Affirmative Action Social Justice Education Initiative, Tier One (Session 1 and 2) and Tier Two (Decoding Implicit Bias) 2020
- OSU Center for Teaching and Learning, Read, Reflect, Reform. ‘Why are all the Black kids sitting together in the cafeteria?’ and ‘Teaching about race and racism in the college classroom’. 2020
- OSU Training: Affirmative Action Search Advocate Series, Sessions 1 and 2 2020

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## Professional Affiliations

- American Geophysical Union (AGU) – Hydrology Section 2012-
- American Institute of Hydrology 2009-
- International Association of Hydrological Sciences 2008-
- American Water Resources Association 2006-
- Canadian Geophysical Union (CGU) – Hydrology Section 2002-
- Alberta Institute of Agrologists (Professional Agrologist) 2012-2015
- British Columbia Institute of Agrologists (Professional Agrologist) 2009-2012
- Canadian Water Resources Association 2005-2014
- Canadian Institute of Forestry – Rocky Mountain Section 2005-2013