

## Brian J. Harvey

Jack Corkery and George Corkery Jr. Endowed Professor in Forest Sciences  
Associate Professor, School of Environmental and Forest Sciences, University of Washington

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### EDUCATION AND PROFESSIONAL PREPARATION

- 2015 - 2017 **Post-Doctoral Fellow**, David. H. Smith Fellowship, University of Colorado-Boulder.
- 2010 - 2015 **Ph.D.**, Dept. of Zoology (Ecology), University of Wisconsin-Madison.
- 2007 - 2010 **M.A.**, Dept. of Geography San Francisco State University.
- 1999 - 2003 **B.A.**, Dept. of Geography, University of California, Santa Barbara.
- B.A.**, Dept. of Environmental Studies, University of California, Santa Barbara.

### ACADEMIC APPOINTMENTS AND EMPLOYMENT HISTORY

- 2023- Associate Professor, School of Environmental & Forest Sciences, University of Washington.
- 2021- Jack Corkery and George Corkery Jr. Endowed Professor in Forest Sciences.
- 2020- Member, Quaternary Research Center, University of Washington.
- 2018- Core Faculty, Quantitative Ecology and Resource Management, University of Washington.
- 2017 - 2023 Assistant Professor, School of Environmental & Forest Sciences, University of Washington.
- 2016 - 2017 Affiliate Investigator, NSF Long Term Ecological Research Network, Niwot Ridge, Colorado.
- 2015 - 2017 David H. Smith Postdoctoral Research Fellow- Society for Conservation Biology, University of Colorado – Boulder.
- 2010 - 2015 Graduate Research Assistant and Teaching Assistant, Department of Integrated Biology (formerly Zoology), University of Wisconsin
- 2007 - 2010 Graduate Research Assistant and Teaching Assistant, Department of Geography and Environment, San Francisco State University
- 2006 - 2008 Senior Staff Environmental Scientist, Ninyo & Moore Geotechnical and Environmental Science Consultants, Oakland, CA.

### RESEARCH GRANTS AND FELLOWSHIPS

**(\$11.4M total funding awarded; \$4.0M as lead-PI; \$7.4M as co-PI/collaborator; \$4.9M in external research funding directly to UW)**

*Pending*

- 2024 - 2029 National Science Foundation: *CAREER: Mechanisms of ecological and fire regime change in temperate maritime forests: disturbance, heterogeneity, and resilience* (\$1.2M – lead PI).

*Awarded*

- 2023 - 2026 Joint Fire Science Program: *A rare opportunity to evaluate landscape fuel reduction effectiveness in a high-severity fire regime.* (\$379K – lead PI).

- 2023 - 2026 Joint Fire Science Program: *Fuel treatment longevity in the interior Pacific Northwest*. (\$481K – lead PI).
- 2023 - 2026 Joint Fire Science Program (Graduate Research Innovation Award): *Stand-level drivers and management impacts on trajectories of reburn potential in western Cascadia*. (\$24K – lead PI, with PhD student Jenna Morris).
- 2022 - 2025 FEMA – Building Resilient Infrastructure and Communities: *Tulalip BRIC Partnership Proposal for the development of a project-scoping framework for hazard mitigation plans to maximize effectiveness and efficiency of natural hazard mitigation strategies*. (\$1.3M – co-PI).
- 2023 – 2025 Gordon and Betty Moore Foundation: *Western US Fire Ecology and Forest Resilience Science Collaborative* (\$3.7M – co-PI on sub award from Cary Institute)
- 2022 – 2023 USDA Forest Service: *Calibration and validation of satellite burn-severity indices with field data in forests of the Interior Pacific Northwest*. (\$25K – lead PI).
- 2022 - 2023 USGS Northwest Climate Adaptation Science Center Fellowship: *Post-fire forest trajectories in western Cascadia: simulating vegetation, reburn potential, and user-defined management scenarios under climate change*. (\$48K – lead PI, with PhD student Jenna E. Morris).
- 2022 - 2024 Joint Fire Science Program Graduate Innovation Award: *Effects of fuel treatment configuration on avian diversity in western dry forests*. (\$25K – lead PI, with PhD student Don C. Radcliffe).
- 2022 - 2023 Washington Department of Natural Resources: *Drivers of post-fire tree regeneration in the Eastern Cascades, Washington*. (\$134K – lead-PI).
- 2022 - 2023 UW Earth Lab Innovation Grants: *Cultural Ecosystems in a changing world: building a network across the Northwest to support food sovereignty, climate adaptation, and land rights*. (\$124K – co-PI).
- 2021 - 2022 USGS Northwest Climate Adaptation Science Center Fellowship: *Potential impacts of future fires in the western Cascades: insights from spatial metrics of burn severity*. (\$47K – lead PI, with PhD student Michele S. Buonanduci).
- 2021 - 2022 Joint Fire Science Program Graduate Innovation Award: *Does high-severity patch structure scale consistently with fire size across the Northwest US?* (\$25K – lead PI, with PhD student Michele S. Buonanduci).
- 2021 - 2023 USDA National Institute of Food and Agriculture: *Consequences of forest fires in western Cascadia: post-fire woody carbon and future fire risk*. (\$255K – lead PI).
- 2020 - 2023 USDA Forest Service: *Short-term post-fire dynamics following stand-replacing fire in the Western Cascades*. (\$161K – lead PI).
- 2020 - 2022 USDA Forest Service: *Re-evaluating historical fire regimes in Westside forests of the Pacific Northwest*. (\$450K – co PI).
- 2020 - 2022 USDA Forest Service: *Evaluating current and future fire regimes in Westside forests of the Pacific Northwest*. (\$200K – co PI).
- 2020 - 2023 USDA Forest Service: *Landscape assessment: New horizons for a changing world*. (\$439K – lead PI).
- 2019 - 2022 USGS Northwest Climate Adaptation Science Center: *Forest fires in western Cascadia: Evaluating drivers and effects to inform climate-adaptive management responses*. (\$298K – lead PI).
- 2020 - 2021 Washington Department of Natural Resources: *Assessing and monitoring forest and fuels restoration needs in Eastern Washington*. (\$304K – co-PI).
- 2020 - 2021 Joint Fire Science Program Graduate Innovation Award: *The race between fuels and fruits: testing mechanisms of serotinous forest resilience to short-interval severe reburns*. (\$25K – lead PI, with PhD student Michelle C. Agne).

- 2019 - 2022 NASA Carbon Monitoring System: *Teal Carbon: stakeholder-driven monitoring of forested wetland carbon*. (\$575K – co PI).
- 2019 - 2023 National Science Foundation (GSS): *Spatiotemporal interactions among biotic disturbance agents, biological legacies, and compensatory responses: Consequences for temperate forest resilience*. (\$324K – lead PI).
- 2019 - 2020 USGS Northwest Climate Adaptation Science Center Fellowship: *Is there evidence of post-fire recruitment failure in serotinous forests of the Pacific Northwest*. (\$47K – lead PI, with PhD student Michelle C. Agne).
- 2019 - 2020 UW Royalty Research Fund: *A rare opportunity: Gaining insights into current and future forest resilience to wildfire in the western Cascade Mountains*. (\$38K – lead PI).
- 2019 - 2021 USDA National Institute of Food and Agriculture: *Effective duration of fuels treatments on resistance to severe wildfire and post-fire resilience in interior Pacific Northwest forests*. (\$206K – lead PI).
- 2017 - 2019 USDA Forest Service: *Calibration and validation of satellite burn-severity indices with field data in forests of the Interior Pacific Northwest*. (\$237K – lead PI).
- 2017 - 2019 USDA National Institute of Food and Agriculture: *Do stand-thinning treatments promote resistance and resilience of forests to insects and fire? Unlocking insights from over seven decades of USFS Experimental Forest plots*. (\$120K – lead PI).
- 2017 - 2018 National Science Foundation (RAPID): *COLLABORATIVE RESEARCH: The 2016 Yellowstone Fires: early indicators of ecosystem transitions in a more fiery future?* (\$200K – Co-PI).
- 2017 - 2018 USGS Northwest Climate Science Center: *Changing wildfire, changing forests: A synthesis on the effects of climate change on fire regimes and vegetation in the Pacific Northwest*. (\$98K – lead PI).
- 2017 - 2019 Australian Research Council – Discovery Projects: *Fire regimes and demographic responses interact to threaten woody species*. (\$538K – Co-PI).
- 2016 - 2019 Joint Fire Science Program: *What makes for a resilient landscape? Climate, fire, and forests in the Northern Rockies*. (\$415K – collaborator).
- 2015 - 2017 David H. Smith Conservation Research Fellowship, Society for Conservation Biology (SCB): *Managing for resistance and resilience during a period of accelerating tree mortality in Rocky Mountain subalpine forests*. (\$192K – PI).
- 2016 - 2017 Undergraduate Research Opportunities Program - University of Colorado-Boulder: *Climate-induced changes in subalpine tree mortality, aboveground carbon, and regeneration: An opportunity for undergraduate research*. (\$3K – Co-PI).
- 2015 - 2016 Undergraduate Research Opportunities Program - University of Colorado-Boulder: *Investigating causes and consequences of subalpine forest change: An opportunity for undergraduate research experience*. (\$3K – Co-PI).
- 2014 - 2015 Wisconsin Space Grant Consortium - Laurel Salton Clark Memorial Graduate Fellowship: *Testing for wildfire feedbacks in forests of the Northern Rocky Mountains*. (\$5K – PI).
- 2014 Meyer Research Fund Award, Dept. of Zoology, UW-Madison (\$1.5K).
- 2012 - 2013 Joint Fire Science Program - Graduate Research Innovation Award: *Is spatial heterogeneity in burn severity changing with warming climate and increasing wildfire?* (\$22K – PI).
- 2012 - 2013 National Park Service - George Melendez Wright Climate Change Fellowship: *Wildfire burn severity patterns and forest transitions under a warming climate in national parks of the Northern Rockies*. (\$19K – PI).
- 2012 - 2013 National Park Service. *Using archival orthophotographs to investigate fire exclusion effects in Douglas-fir forests of Grand Teton Natl. Park*. (\$10K – Co-PI).
- 2009 California Native Plant Society, Doc Burr Educational Grant (\$400 – PI).

2008 - 2009 Rod Heller Memorial Scholarship for Environmental Education (\$2.5K)

(Additional \$375K in combined gift donations to support research in the Harvey Lab at UW since 2019)

## PROFESSIONAL HONORS AND AWARDS

2022 - 2026 Early Career Fellow of the Ecological Society of America  
 2022 Highly Meritorious Faculty at UW School of Environmental and Forest Sciences.  
 2021 - 2022 Outstanding Diversity Commitment Award, UW College of the Environment  
 (co-awardee w/ Sarah Converse for work in the Diversity Equity Inclusion Committee)  
 2022 - 2024 Jack Corkery and George Corkery Jr. Endowed Professor in Forest Sciences.  
 2021 Highly Meritorious Faculty at UW School of Environmental and Forest Sciences.  
 2020 Highly Meritorious Faculty at UW School of Environmental and Forest Sciences.  
 2019 - 2020 Faculty Member of the Year, UW School of Environmental and Forest Sciences.  
 2019 - 2020 Director's Award for Faculty Service, UW School of Environmental and Forest Sciences.  
 (co-awardee w/ Sarah Converse for work in the Diversity Equity Inclusion Committee)  
 2019 Highly Meritorious Faculty at UW School of Environmental and Forest Sciences.  
 2018 Highly Meritorious Faculty at UW School of Environmental and Forest Sciences.  
 2015 Wilburforce Fellowship in Conservation Science, inaugural class of fellows.  
 2015 Campus-Wide Capstone Ph.D. Teaching Award, UW-Madison.  
 2014 Best Graduate Student Poster Award, 25<sup>th</sup> Annual Wisconsin Space Conference.  
 2012- Phi Kappa Phi National Honor Society.  
 2010 Hood Recipient on behalf of all Graduate Students in the B.S.S. College, SFSU.  
 2010 Distinguished Achievement Award for Academic Excellence, Dept. of Geography, SFSU.  
 2009 Pease Memorial Award for Excellence in Geography, Dept. of Geography, SFSU.

## PUBLICATIONS

[Google Scholar Profile](#) (total citations: 6,162 *h-index*: 28; *i10-index*: 45)

### *Peer-reviewed research articles and book chapters*

@ Graduate student or undergraduate student directly advised as primary advisor

# Graduate student or undergraduate student advised as graduate committee member or co-advisor

### 2023 and in press

65. @Radcliffe, D.C., Bakker, J.D., Churchill, D.J., Alvarado, E.C, Peterson, D.W., @Laughlin, M.M., **Harvey, B.J.**, in press. How are long-term stand structure, fuel profiles, and potential fire behavior affected by fuel treatment type and intensity in Interior Pacific Northwest forests? *Forest Ecology and Management*.
64. @Laughlin, M.M., @Rangel-Parra, L.K., @Morris, J.E., Donato, D.C., Halofsky, J.S., **Harvey, B.J.**, 2023. Patterns and drivers of early conifer regeneration following stand-replacing wildfire in Pacific Northwest (USA) temperate maritime forests. *Forest Ecology and Management* 549:121491.
63. Donato, D.C., Halofsky, J.S., Churchill, D.J., Haugo, R.D., Cansler, C.A., Smith, A., **Harvey, B.J.**, 2023. Does large area burned mean a bad fire year? Comparing contemporary wildfire years to historical fire regimes informs the restoration task in fire-dependent forests. *Forest Ecology and Management* 546: 121372.
62. @Buonanuci, M.S., Donato, D.C., Halofsky, J.S., Kennedy, M.C., **Harvey, B.J.**, 2023. Consistent spatial scaling of high-severity wildfire can inform expected future patterns of burn severity. *Ecology Letters*.

61. @Agne, M.C., Fontaine, J.B., Enright N.J., Bisbing, S.M., **Harvey, B.J.**, 2023. Rapid fuel recovery after stand-replacing fire in closed-cone pine forests and implications for short-interval severe reburns. *Forest Ecology and Management* 545: 121263.
60. @Morris, J.E., @Buonanduci, M.S., @Agne, M.C., Battaglia, M.A., Donato, D.C., **Harvey, B.J.**, 2023. Fuel profiles and biomass carbon following bark beetle outbreaks: Insights for disturbance interactions from a historical silvicultural experiment. *Ecosystems*.
59. @Saberri, S.J., **Harvey, B.J.**, 2023. What is the color when black is burned? Quantifying forest (re)burn severity in short-interval fires using field and satellite indices. *Fire Ecology* (24): 19-24.
58. Davis, K.T., +59 other authors including **Harvey, B.J.**, 2023. Reduced fire severity offers near-term buffer to climate-driven declines in conifer resilience across the western United States. *Proceedings of the National Academy of Sciences* 120(11): e2208120120.
57. **Harvey, B.J.**, @Buonanduci, M.S., Turner, M.G., 2023. Spatial interactions among short-interval fires reshape forest landscapes. *Global Ecology and Biogeography* 32: 586-602.
56. #Miller, C.W., **Harvey, B.J.**, Kane, V.R., Moskal, L.M., Alvarado, E. C., 2023. Different approaches make comparing studies of burn severity challenging: A review of methods used to link remotely sensed data with the Composite Burn Index. *International Journal of Wildland Fire* 32(4): 449-475.
55. @Buonanduci, M.S., @Morris, J.E., @Agne, M.C., Battaglia, M.A., **Harvey, B.J.**, 2023. Fine-scale spatial heterogeneity shapes compensatory responses of a subalpine forest to severe bark beetle outbreak. *Landscape Ecology* 38: 253-270.
54. @Laughlin, M.M., Bakker, J.D., Churchill, D.J., Gregory M.J., DeMeo, T.E., Alvarado E.C., **Harvey, B.J.**, 2023. Trends in forest structure restoration need over three decades with increasing wildfire activity. *Forest Ecology and Management* 527: 120607.
53. **Harvey, B.J.**, Hart, S.J., Tobin, P.C., Veblen, T.T., Donato, D.C., @Buonanduci, M.S., #Pane, A.M., @Stanke, H.D., Rodman, K.C. 2023. Emergent hotspots of biotic disturbances and their consequences for forest resilience. *Frontiers in Ecology and the Environment* 21(8): 353-400.

## 2022

52. Rodman, K., +21 other authors including @Morris J.E., **Harvey, B.J.**, 2022. Rocky Mountain forests are poised to recover following bark beetle outbreaks, but with altered composition. *Journal of Ecology* <https://doi.org/10.1111/1365-2745.13999>
51. Howe, A.A., Parks, S.A., Harvey B.J., @Saberri, S.J., Lutz, J.A., Yocum, L.L., 2022. Comparing Sentinel-2 and Landsat 8 for burn severity mapping in western North America. *Remote Sensing* 14, 5249.
50. @Agne, M.C., Fontaine, J.B., Enright N.J., **Harvey, B.J.**, 2022. Fire interval and post-fire climate effects on serotinous forest resilience. *Fire Ecology* 18(22).
49. Shuman J.K., +86 other authors including **Harvey, B.J.**, 2022. Reimagine Fire Science for the Anthropocene. *Proceedings of the National Academy of Sciences – Nexus* 1(3): pgac115.
48. @Agne, M.C., Fontaine, J.B., Enright, N.J., Bisbing, S.M., **Harvey, B.J.** 2022. Demographic processes underpinning post-fire resilience in California closed-cone pine forests: the importance of fire interval, stand structure, and climate. *Plant Ecology* 223: 751-767.
47. **Harvey, B.J.**, Enright N.J. 2022. Climate change and altered fire regimes: Impacts on plant populations, species, and ecosystems in both hemispheres. *Plant Ecology* 223: 699-709.
46. Reilly, M.J., Zuspan, A., Halofsky, J.S., Raymond, C.L., McEvoy, A., Dye, A.W., Donato, D.C., Kim, J.B., Potter, B.E., Walker, N., Davis, R., Dunn, C.J., Bell, D.M., Gregory, M.J., Johnston, J.D., **Harvey, B.J.**, Halofsky, J.E., Kerns, B.K. 2022. Cascadia Burning: The historic, but not historically unprecedented, 2020 wildfires in the Pacific Northwest, USA. *Ecosphere* 13(6): e4070.

45. @Saber, S.J., @Agne, M.C., **Harvey, B.J.**, 2022. Do You CBI What I See? The relationship between the Composite Burn Index and quantitative field measures of burn severity varies across gradients of forest structure. *International Journal of Wildland Fire* 31(2): 112-123.
44. Muthukrishnan, R., Hayes, K., Bartowitz, K., Cattau, M.E., **Harvey, B.J.**, Lin, Y., Lunch, C. 2022. Harnessing NEON to evaluate ecological tipping points: opportunities, challenges, and approaches. *Ecosphere* 13(3): e03989.
43. @Morris, J.E., @Buonanduci, M.S., @Agne, M.C., Battaglia, M.A., **Harvey, B.J.**, 2022. Does the legacy of historical thinning treatments foster resilience to bark beetle outbreaks in subalpine forests? *Ecological Applications* 32(1): e02474.

## 2021

42. Nagy, R.C., +99 other authors including **Harvey, B.J.**, 2021. Harnessing the NEON Data Revolution to Advance Open Environmental Science with a Diverse and Data-Capable Community. *Ecosphere* 12(12): e03833.
41. Abatzoglou, J.T., Battisti, D.S., Williams, A.P., Hansen, W.D., **Harvey, B.J.**, Kolden, C.A. 2021. Continued increases in western US forest fire despite growing fuel constraints. *Nature Communications Earth & Environment* 2(1): 1-8.
40. **Harvey, B.J.**, Hart, S.J., Cansler, C.A. 2021. Disturbance regime concept. In: Francis, R.A., Millington, J.D.A., Perry, G.L.W., Minor, E.S., (editors). *Routledge Handbook of Landscape Ecology*. Routledge Publishing, New York, NY: 159-174. (book chapter)
39. Hood, S.M., **Harvey, B.J.**, Fornwalt, P.J., Naficy, C.E., Hansen, W.D., Davis, K.T., Battaglia, M.A., Stevens-Rumann, C., Saab, V. 2021. Fire Ecology of Rocky Mountain Forests. In: Greenberg, K., Collins, B., (editors). *Fire Ecology and Management: Past, Present, and Future of US Forested Ecosystems*. (book chapter)
38. #Andrus, R.A., #Chai, R., **Harvey, B.J.**, Rodman, K., Veblen, T.T., 2021. Increasing rates of subalpine tree mortality linked to warmer and drier summers. *Journal of Ecology*. 109(5): 2203-2218.
37. Rodman, K. #Andrus, R.A., Butkiewicz, Chapman, T., Gill, N., Harvey B.J., Kulakowski, D., Tutland, N, Veblen, T.T., Hart, S.J. 2021. Effects of bark beetle outbreaks on forest landscape pattern in the Southern Rocky Mountains, U.S.A. *Remote Sensing* 13: 1089.
36. **Harvey, B.J.**, #Andrus, R.A., Battaglia, M.A., Negrón, J.F., @Orrego, A., Veblen, T.T., 2021. Droughty times in mesic places: Factors associated with forest mortality vary by scale in a temperate subalpine region. *Ecosphere* 12(1): e03318. (selected by the USFS Rocky Mountain Research Station for the 2021 Director’s Choice Award).

## 2020

35. Cansler, C.A., +74 other authors including **Harvey, B.J.**, 2020. The Fire and Tree Mortality Database (FTM): a database for empirical modeling of tree mortality after fire. *Scientific Data*. 7, 194.
34. @Buonanduci, M.S., @Morris, J.E., @Agne, M.C., **Harvey, B.J.**, 2020. Neighborhood context mediates probability of host tree mortality in a severe bark beetle outbreak. *Ecosphere* 11(8): e03236.
33. McLauchlan, K., +43 other authors including **Harvey, B.J.**, 2020. Fire as a fundamental ecological process: research advances and frontiers. *Journal of Ecology* 108: 2047-2069. “Top Cited Article Award” (top cited article for *Journal of Ecology* in 2020-2021).
32. Coop, J.D., +22 other authors including **Harvey, B.J.**, 2020. Wildfire-driven forest conversion in western North American landscapes. *BioScience* 70(8): 659-673. “Highly Cited Paper” (top 1% of cited papers for *Environment/Ecology* in publication year) on Web of Science.
31. #Andrus, R.A., **Harvey, B.J.**, @Hoffman, A., Veblen, T.T. 2020. Reproductive maturity and cone abundance varies with tree size and stand basal area for two widely distributed conifers. *Ecosphere* 11(5): e03092.
30. Halofsky, J.E., Peterson, D.L., **Harvey, B.J.**, 2020. Changing wildfire, changing forests: The effects of climate change on fire regimes and vegetation in the Pacific Northwest. *Fire Ecology* 16(4).

## 2019

29. McWethy, D., Schoennagel, T., Higuera, P., Krawchuck, M., **Harvey, B.J.**, Metcalf, L., Schultz, C., Metcalf, A., Buma, B., Ratajczak, Z. 2019. Rethinking resilience to wildfire. *Nature Sustainability* 2: 797-804.
28. Turner, M.G., Braziunas, K.H., Hansen, W.D., **Harvey, B.J.** 2019. Short-interval severe fire erodes the resilience of subalpine lodgepole pine forests. *Proceedings of the National Academy of Sciences* 116(23): 11319-11328.
27. #Chai, R. #Andrus, R.A., **Harvey, B.J.**, Rodman, K., Veblen, T.T. 2019. Stand dynamics and topographic setting influence changes in live tree biomass over a 34-year permanent plot record in subalpine forest in the Colorado Front Range. *Canadian Journal of Forest Research* 49(10): 1256-1264.
26. Higuera, P., Metcalf, A., Miller, C., Buma, B., McWethy, D., Metcalf, E., Ratajczak, Z., Nelson, C., Chaffin, B., Stedman, R., McCafrey, S., Schoennagel, T., **Harvey, B.J.**, Hood, S., Schultz, C., Black, A., Campbell, D., Haggerty, J., Keane, R., Krawchuk, M., Kulig, J., Rafferty, R., Virapongse, A. 2019. Integrating subjective and objective dimensions of resilience in fire-prone landscapes. *BioScience* 69(5): 379-388.
25. **Harvey, B.J.**, #Andrus, R.A., Anderson, S.A., 2019. Incorporating biophysical gradients and uncertainty into burn severity maps in a temperate fire-prone forested region. *Ecosphere* 10(2): e02600.
24. Buma, B., **Harvey, B.J.**, Gavin, D., Kelly, R., Laboda, T., McNeil, B., Marlon, J., Meddens, A., Morris, J., Raffa, K., Shuman, B., Smithwick, E., McLauchlan, K. 2019. The value of linking paleoecological and neocological perspectives to understand spatially explicit ecosystem resilience. *Landscape Ecology* 34(1): 17-33.

## 2018

23. Sommerfeld, A., Senf, C., Buma, B., D'Amato, A.W., Despres, T., Diaz-Hormazabal, I., Fraver, S., Frelich, L.E., Gutierrez, A.G., Hart, S.J., **Harvey, B.J.**, He, H.S., Hlasny, T., Holz, A., Kitzberger, T., Kulakowski, D., Lindenmayer, D., Mori, A., Muller, J., Paritsis, J., Perry, G.L.W., Stephens, S., Svoboda, M., Turner, M.G., Veblen, T.T., Seidl, R. 2018. Patterns and drivers of recent disturbances across the temperate forest biome. *Nature Communications* 9: 4355.
22. #Andrus, R.A., **Harvey, B.J.**, #Chai, R., Veblen, T.T. 2018. Different vital rates of Engelmann spruce and subalpine fir explain discordance in understory and overstory dominance. *Canadian Journal of Forest Research* 48(12):1554-1562.
21. Halofsky, J.S., Donato, D.C., Franklin, J.F., Halofsky, J.E., Peterson, D.L., **Harvey, B.J.** 2018. The nature of the beast: Examining climate adaptation options in forests with stand-replacing fire regimes. *Ecosphere* 9(3): e02140.
20. #Andrus, R.A., **Harvey, B.J.**, Rodman, K., Hart, S.J., Veblen, T.T. 2018. Moisture availability limits subalpine tree establishment. *Ecology* 99(3): 567-575.
19. Stevens-Rumann, C.S., Kemp, K.B., Higuera, P.E., **Harvey, B.J.**, Rother, M.T., Donato, D.C., Morgan, P., Veblen T.T. 2018. Evidence for declining forest resilience to wildfires under climate change. *Ecology Letters* 21(2): 243-252. "Highly Cited Paper" (top 1% of cited papers for Environment/Ecology in publication year) on Web of Science.

## 2017

18. Schoennagel, T., Balch, J.K., Brenkert-Smith, H., Dennison, P.E., **Harvey, B.J.**, Krawchuck, M.A., Miekiewicz, N., Morgan, P., Moritz, M.A., Rasker, R., Turner, M.G., Whitlock, C.L. 2017. Adapt to more wildfire in western North American forests as climate changes. *Proceedings of the National Academy of Sciences* 114(8): 4582-4590. "Highly Cited Paper" (top 1% of cited papers for Environment/Ecology in publication year) on Web of Science.
17. Rose, K.C., Graves, R.A., Hansen, W.D., **Harvey, B.J.**, Qiu, J., Wood, S., Ziter, C., Turner, M.G. 2017. Historical foundations and future directions in macrosystems ecology. *Ecology Letters* 20(2): 147-157.

16. Turner, M.G., Donato, D.C., Hansen, W.D., **Harvey, B.J.**, Romme, W.H., Westerling, A.L. 2017. Climate change and novel disturbance regimes in national park landscapes. In: Beissinger, S.R., Ackerly, D.D., Doremus, H., Machlis, G., (editors). *Science, Conservation, and National Parks*. University of Chicago Press, Chicago, IL: 77-101. (book chapter)

### 2016

15. **Harvey, B.J.** 2016. Human-caused climate change is now a key driver of forest fire activity in the western United States. *Proceedings of the National Academy of Sciences* 113(42): 11649-11650. (invited commentary)
14. **Harvey, B.J.**, Donato, D.C., Turner, M.G. 2016. Drivers and trends in landscape patterns of stand-replacing fire in forests of the US Northern Rocky Mountains (1984-2010). *Landscape Ecology* 31: 2367-2383.
13. Johnstone, J.F., Turner, M.G., Allen, C.D., Franklin, J.F., Frelich, L.E., **Harvey, B.J.**, Higuera, P.E., Mack, M.C., Meentemeyer, R., Metz, M.R., Perry, G.L., Schoenneagel, T. 2016. Changing disturbance regimes, ecological memory, and forest resilience. *Frontiers in Ecology and the Environment* 14(7): 369-378. "Highly Cited Paper" (top 1% of cited papers for *Environment/Ecology in publication year*) on *Web of Science*.
12. Donato, D.C., **Harvey, B.J.**, and Turner, M.G. 2016. Regeneration of lower-montane forests a quarter-century after the 1988 Yellowstone Fires: a fire-catalyzed shift in lower treelines? *Ecosphere* 7(8):e01410.
11. **Harvey, B.J.**, Donato, D.C., Turner, M.G. 2016. Burn me twice, shame on who? Interactions between successive forest fires across a temperate mountain region. *Ecology* 97(9): 2272-2282.
10. **Harvey, B.J.**, Donato, D.C., Turner, M.G. 2016. High and dry: Postfire drought and large stand-replacing burn patches reduce postfire tree regeneration in subalpine forests. *Global Ecology and Biogeography* 25: 655-669.
9. #Andrus, R.A., Veblen, T.T., **Harvey, B.J.**, Hart, S.J. 2016. Fire severity unaffected by spruce beetle outbreak in spruce-fir forests of southwestern Colorado. *Ecological Applications* 26(3): 700-711.

### 2014

8. **Harvey, B.J.**, Donato, D.C., Turner, M.G. 2014. Recent mountain pine beetle outbreaks, wildfire severity, and postfire tree regeneration in the US Northern Rockies. *Proceedings of the National Academy of Sciences* 111(42): 15120-15125.
7. **Harvey, B.J.**, Donato, D.C., Romme, W.H., Turner, M.G. 2014. Fire severity and tree regeneration following bark beetle outbreaks: the role of outbreak stage and burning conditions. *Ecological Applications* 24(7): 1608-1625.
6. **Harvey, B.J.**, Forrester, A.B., Holzman, B.A. 2014. Forest resilience following severe wildfire in a semi-urban National Park. *Fremontia* 42(3): 14-18.
5. **Harvey, B.J.**, Holzman, B.A. 2014. Divergent successional pathways of stand development following fire in a California closed-cone pine forest. *Journal of Vegetation Science* 25(1): 88-99.

### 2013

4. **Harvey, B.J.**, Donato, D.C., Romme, W.H., Turner, M.G. 2013. Influence of recent bark beetle outbreak on fire severity and post-fire tree regeneration in montane Douglas-fir forests. *Ecology* 94(11): 2475-2486.
3. Donato, D.C., Simard, M., Romme, W.H., **Harvey, B.J.**, Turner, M.G. 2013. Evaluating post-outbreak management effects on future fuel profiles and stand structure in bark beetle-impacted forests of Greater Yellowstone. *Forest Ecology and Management* 303: 160-174.
2. Donato, D.C., **Harvey, B.J.**, Romme, W.H., Simard, M., Turner, M.G. 2013. Bark beetle effects on fuel profiles across a range of stand structures in Douglas-fir forests of Greater Yellowstone, USA. *Ecological Applications* 23(1): 3-20.

### 2011



1. **Harvey, B.J.**, Holzman, B.A, Davis, J.D. 2011. Spatial variability in stand structure and density-dependent mortality in newly established post-fire stands of a California closed-cone pine forest. *Forest Ecology and Management* 262(11): 2042-2051.

*In review or revision*

- ©Buonanduci, M.S., Donato, D.C., Halofsky, J.S., Kennedy, M.C., **Harvey, B.J.**, in review. Scaling severe fire patterns across fire sizes yields insights for data-sparse and infrequent-fire regimes. *Ecological Applications*.

*Book reviews*

1. **Harvey, B.J.** 2017. Stewardship of iconic landscapes in uncertain futures: Lessons from the US Rockies and Appalachians. *Landscape Ecology* 32(3): 693-695. (invited book review)

**TECHNICAL REPORTS AND RESEARCH BRIEFS**

- ©Radcliffe, D.C., Churchill, D.J., **Harvey, B.J.** 2022. Fuels and restoration treatment longevity in dry forests of the western US: A Synthesis. Final report to the Washington Department of Natural Resources.
- Harvey, B.J.**, ©Agne, M.C. 2021. Bishop pine forest health: Science synthesis to inform management and conservation. Final report and white paper prepared for the Golden Gate Parks Conservancy.
- ©Laughlin, M.M., Bakker, J.D., Churchill, D.J., **Harvey, B.J.** 2020. The status and trends of forest structural restoration need in eastern Washington. Final report to the Washington Department of Natural Resources.
- Halofsky, J.E., Peterson, D.L., **Harvey, B.J.** 2019. Changing Wildfire, Changing Forests: A Synthesis on the Effects of Climate Change on Fire Regimes and Vegetation in the Pacific Northwest. USDA Forest Service General Technical Report. Pacific Northwest Research Station, Portland, Oregon.
- Ho, J.J., Norheim, R.A., Halofsky, J.E., Peterson D.L., **Harvey, B.J.** 2019. Changing Wildfire, Changing Forests: ArcGIS StoryMap ([link](#)).
- Halofsky, J.E., Peterson D.L., **Harvey, B.J.** 2019. Changing Wildfire, Changing Forests – Research Brief ([link](#)).
- Schoennagel, T. Morgan, P., Balch, J.K., Dennison, P.E., **Harvey, B.J.**, Hutto, R.L., Krawchuk, M.A., Mortiz, M.A., Rasker, R., Whitlock, C.L. 2016. Insights from wildfire science: A resource for policy discussions. White paper, Headwaters Economics ([link](#)).
- Harvey, B.J.** 2015. Testing for wildfire feedbacks in forests of the US Northern Rockies. Report to the Wisconsin Space Grant Consortium.
- Turner, M.G., Romme, W.H., Townsend, P.A., Renkin, R.A., Donato, D.C., Simard, M., **Harvey, B.J.**, Griffin, J.M. 2013. Bark beetles, fuels, and future fire hazard in contrasting conifer forests of Greater Yellowstone. Final report to the Joint Fire Science Program, project no. 09-1-06-3.
- Harvey, B.J.**, Turner, M.G. 2013. Is spatial heterogeneity of burn severity changing with warming climate and increasing wildfire? Final report to the Joint Fire Science Program, project no. 12-3-01-3.
- Donato, D.C., Abendroth, D., **Harvey, B.J.** 2013. Using archival digital orthophotographs to investigate the effects of fire exclusion and insect outbreaks on Douglas-fir in Grand Teton National Park and surrounding areas. Final report to the U.S. National Park Service, project no. GRTE 00291.
- Abendroth, D., Donato, D.C., **Harvey, B.J.**, Mellander, K. 2013. Using archival digital orthophotographs to investigate the Douglas-fir fire regime: A preliminary study from Grand Teton National Park and the Bridger-Teton National Forest, Wyoming. White paper submitted to the U.S. National Park Service.

- Davis, A., Davis, J.D., **Harvey, B.J.** 2010. Pedro Point Headlands 1941 to 2010: A preliminary study using historical remote sensing and dendrochronology. Final report to the Pacifica Land Trust and the California Coastal Conservancy.
- Harvey, B.J.**, Brastow, P. 2010. Weeds of San Francisco: Preliminary mapping and assessment report for Weed Management Area strategic planning. Final report to the California Department of Food and Agriculture.
- Augembaugh, K., **Harvey, B.J.**, Hayes, J., Kernan, J., Marion, D.A., Peterson, J., Pipkin, A., Riley, K., Kaye, M. 2009. Fire on the mountain: recent fire history of the Tekoa Mountain Wildlife Management Area, MA. in: Speer, J. H. (ed.) *19<sup>th</sup> Annual North American Dendroecological Fieldweek (NADEF) Final Report*. pp. 39-47.

## PRESENTATIONS AT PROFESSIONAL MEETINGS

### Presenting author

® Graduate student or undergraduate student presenter directly advised as primary advisor

#### *Invited presentations*

- Harvey, B.J.**, ®Buonanduci M.S., Donato, D.C., Halofsky, J.S., Reilly, M.J. 2023. Spatial patterns of burn severity in Western Cascadia: characteristics, drivers, and implications for post-fire landscapes. *USFS PNW Research Station Oregon Post-fire Research and Monitoring Symposium*, Corvallis, OR. Oral presentation.
- Harvey, B.J.**, ®Buonanduci M.S., Donato, D.C., Halofsky, J.S., Reilly, M.J. 2023. Spatial patterns of burn severity in Western Cascadia: characteristics, drivers, and implications for post-fire landscapes. *Proceedings of the Northwest Scientific Association and the Pacific Division of the American Association for the Advancement of Science*, Bellingham, WA. Oral presentation in special session “Climate impacts and adaptations.”
- Harvey, B.J.**, #Andrus, R.A., ®Orrego, A., Battaglia, M.A., Negrón, J.F., Veblen, T.T. 2022. Subalpine fir decline in the US Rocky Mountains: multi-scale factors associated with mortality and forest response. *70<sup>th</sup> Western Forest Insect Work Conference*. Edmonton, AB (virtual in 2022 due to COVID-19 restrictions). Oral presentation in special session on “High elevation forests – resilience or decline.”
- Harvey, B.J.**, Donato, D.C., Halofsky, J.S., ®Buonanduci, M.S., ®Laughlin, M.M., ®Rangel-Parra, L.K., ®Morris, J.E. 2022. Forest fires in western Cascadia: Drivers, characteristics, and indicators of post-fire resilience. *92<sup>nd</sup> Annual Meeting of the Northwest Scientific Association*, (virtual in 2022 due to COVID-19 restrictions). Oral Presentation in special session on “Fostering Fire Resilience in the Pacific Northwest.”
- Harvey, B.J.** 2021. Regional trends in burn severity, tree regeneration, and reburns in the Northern Rockies. *2021 Crown Managers Partnership 2021 Fire Forum: Fire in the Crown of the Continent*, Cranbrook, B.C., Canada. Oral presentation (online).
- Harvey, B.J.** 2020. Regional trends in burn severity, tree regeneration, and reburns in the Northern Rockies. *2020 Crown Managers Partnership 2020 Fire Forum: Fire in the Crown of the Continent*, Cranbrook, B.C., Canada. Oral presentation. (conference cancelled due to COVID-19, one day prior to the start of the conference).
- Harvey, B.J.** 2019. Short-interval reburns in subalpine forests of the US Northern Rockies: scaling insights from plots to landscape mosaics. *2019 Interval Squeeze Symposium*, Perth, Western Australia. Oral presentation.
- Harvey, B.J.**, Turner, M.G. 2019. Landscape patterns of burn severity in short-interval reburns: Individual and cumulative effects from multiple fires on spatial patterns of fire and forest structure. *2019 Annual Meeting of the US-International Association for Landscape Ecology*, Fort

- Collins, CO. Oral presentation in special session on “Wildfire-driven forest conversion in western North American landscapes: Emerging science and implications for resilience and adaptation.”
- Meigs, G.W., **Harvey, B.J.**, Krawchuk, M.A. 2019. Improving burn severity mapping for landscape conservation: Incorporating biophysical gradients, uncertainty, and functionally significant patches in burned landscapes. *2019 Annual Meeting of the US-International Association for Landscape Ecology*, Fort Collins, CO. Co-presented oral presentation in special session on “Incorporating landscape ecology theory into analyses of forest fires: Insights/challenges/innovations for supporting conservation.” (first two authors contributed equally and co-presented talk).
- Harvey, B.J.**, Bisbing, S., Enright, N.J., Fontaine, J.B., Turner, M.G. 2018. Linked and compound disturbance interactions between multiple fires in conifer forests of the western US. *Fire Continuum Conference: Preparing for the Future of Wildland Fire*. Missoula, MT. Oral presentation in special session on “Assessing resilience to wildfires across the social-ecological spectrum.”
- Harvey, B.J.**, Andrus, R.A., @Orrego, A., Battaglia, M.A., Negrón, J.F., Veblen, T.T. 2016. Multi-scale patterns of subalpine fir mortality are driven by complex interactions among broad-scale climate, local topography, stand structure, and tree characteristics. *Fall Meeting, American Geophysical Union*. San Francisco, CA. Oral presentation in special session on “Alteration of drought-driven forest dynamics under a changing climate.”
- Harvey, B.J.**, Veblen, T.T. 2015. Direct and indirect effects of drought on forest ecosystems. *USGS North Central Climate Science Center*. Fort Collins, CO. Oral presentation for “Workshop on Ecological Drought – Impacts, resistance, and recovery.”
- Harvey, B.J.** 2015. Burn me twice, shame on who? Testing for feedbacks among multiple wildfires and identifying factors leading to two successive stand-replacing fires. *International Fire Ecology and Management Congress*. San Antonio, TX. Oral presentation in special session on “Wildland fire impacts on subsequent fire behavior, fire effects, and post-fire vegetation dynamics.”
- Harvey, B.J.** 2015. Forest structure, wildfire severity, and postfire resilience following recent bark beetle outbreaks in the US Northern Rockies. *International Fire Ecology and Management Congress*. San Antonio, TX. Oral presentation in special session on “Changing fire regimes: ecological change as a consequence of climate warming and dynamic/novel fuel complexes.”
- Harvey, B.J.**, Donato, D.C., Turner, M.G., 2014. Landscape patterns and disturbance legacies: Is a warming climate altering spatial patterns of wildfire severity and post-fire forest succession? *Annual Meeting, Ecological Society of America*, Sacramento, CA. Oral presentation in special session on “Climate Warming, Changing Disturbance Regimes, and Forest Resilience.”
- Harvey, B.J.**, 2014. Testing for wildfire feedbacks in forests of the US Northern Rocky Mountains. *24<sup>th</sup> Annual Wisconsin Space Conference*, Fitchburg, WI. Poster presentation.
- Harvey, B.J.**, Donato, D.C., Turner, M.G., 2014. Post-fire subalpine forest regeneration varies with climate in patches of stand-replacing wildfire. *Large Wildland Fires Conference: Social, Political, and Ecological Effects*, Missoula, MT. Oral presentation in special session on “Social-Ecological Study of Western Fires: Developing and Integrated Framework for Research in Times of Change.”
- Harvey, B.J.**, Turner, M.G., Donato, D.C. 2012. Spatial heterogeneity of burn severity in Northern Rocky Mountain forests (USA) between 1984 and 2011. *International Fire Ecology and Management Congress*, Portland, OR. Invited oral presentation in special session on “Assessing fire effects with remote sensing and geospatial technologies.”

#### *Contributed presentations*

- Harvey, B.J.**, Donato, D.C., Halofsky, J.S., @Buonanduci, M.S., @Laughlin, M.M., @Rangel-Parra, L.K., @Morris, J.E. 2022. Landscape patterns of burn severity and early post-fire forest trajectories in an infrequent and severe fire regime of Western Cascadia. *Annual Meeting, Ecological Society of*

America, Montreal, Canada (talk accepted but presentation canceled because of emergency changing travel plans). Oral Presentation.

- Harvey, B.J.,** Donato, D.C., Halofsky, J.S., <sup>®</sup>Buonanduci, M.S., <sup>®</sup>Laughlin, M.M., <sup>®</sup>Rangel-Parra, L.K., <sup>®</sup>Morris, J.E. 2021. Forest fires in western Cascadia: Drivers, characteristics, and indicators of post-fire resilience. *9<sup>th</sup> International Fire Ecology and Management Congress*, Pensacola, FL (virtual in 2021 due to COVID-19 restrictions). Oral Presentation.
- Harvey, B.J.,** Buonanduci, M.S., Donato, D.C., Halofsky, J.S. 2021. Spatial patterns of burn severity in an archetypal infrequent-severe fire regime: Insights from the Western Cascades. *Annual Meeting, Ecological Society of America*, Long Beach, CA (virtual in 2021 due to COVID-19 restrictions). Oral Presentation.
- Harvey, B.J.,** Turner, M.G. 2020. Do two rights make a wrong? Individual and combined mosaics of burn severity in short-interval re-burned forests. *Annual Meeting, Ecological Society of America*, Salt Lake City, UT (virtual in 2020 due to COVID-19 restrictions). Oral presentation.
- Harvey, B.J.,** Black, A., Gucker, C., Jolly, W.H., Parsons, R.A., Schoennagel, T., Wright, V. 2018. Embracing complexity and discovering clarity: Bark beetles and fire in subalpine forests of the western US. *Fire Continuum Conference: Preparing for the Future of Wildland Fire*. Missoula, MT. Oral presentation
- Harvey, B.J.,** Andrus, R.A. 2017. From charred trees to satellite sensors: Translating remotely sensed indices into on-the-ground measures of burn severity in Rocky Mountain forests. *Annual Meeting, Ecological Society of America*, Portland, OR. Oral presentation.
- Harvey, B.J.,** Andrus, R.A., Battaglia, M.A., Negrón, J.F., Veblen, T.T. 2016. Red, dead and spread: Multi-scale patterns of recent subalpine fir mortality across the US Rocky Mountains. *North American Congress for Conservation Biology*, Madison, WI. Oral presentation.
- Harvey, B.J.,** Donato, D.C., Turner, M.G., 2015. High and dry: Large stand-replacing burn patches and postfire drought reduce postfire resilience in subalpine forests of the US Northern Rocky Mountains. *Annual Meeting, Ecological Society of America*, Baltimore, MD. Oral presentation.
- Harvey, B.J.,** 2015. Mosaics or moonscapes? Spatial heterogeneity of burn severity in forests of the US Northern Rocky Mountains (1984-2010). *World Congress, International Association for Landscape Ecology*, Portland, OR. Oral presentation.
- Harvey, B.J.,** Donato, D.C., Simard, M., Griffin, J.M., Romme, W.H., Turner, M.G., 2014. Disturbances across boundaries: Forest structure, wildfire severity, and postfire resilience following recent bark beetle outbreaks in Greater Yellowstone. *12<sup>th</sup> Biennial Scientific Conference on the Greater Yellowstone Ecosystem*, Mammoth Hot Springs, Yellowstone National Park. Oral presentation.
- Harvey, B.J.,** Donato, D.C., Turner, M.G., 2014. Are spatial patterns of burn severity changing with warming climate and increasing wildfire? *Large Wildland Fires Conference: Social, Political, and Ecological Effects*, Missoula, MT. Oral presentation.
- Harvey, B.J.,** Donato, D.C., Romme, W.H., Turner, M.G., 2013. Field evidence of recent bark beetle outbreaks and fire severity in subalpine forests: the importance of time since outbreak and burning conditions. *Annual Meeting, Ecological Society of America*, Minneapolis, MN. Oral presentation.
- Harvey, B.J.,** Turner, M.G., Romme, W.H., Donato, D.C. 2012. Douglas-fir beetle impacts on fire severity and postfire tree regeneration in lower montane forests of Greater Yellowstone. *Annual Meeting, Ecological Society of America*, Portland, OR. Oral presentation.
- Harvey, B.J.,** Turner, M.G., Romme, W.H., Donato, D.C., Simard, M., Townsend, P.A. 2011. Effects of recent mountain pine beetle infestation on fire severity and post-fire regeneration in a lodgepole pine forest of Greater Yellowstone. *Annual Symposium, U.S. International Association for Landscape Ecology*, Portland, OR. Oral presentation.
- Harvey, B.J.,** Holzman, B.A. 2010. Post-fire stand dynamics in a *Pinus muricata* forest (1995-2009). Biogeography Specialty Group Masters and Undergraduate Student Paper Competition. *Annual Meeting, Association of American Geographers*, Washington, D.C. Oral presentation.

Crowley, B.J., **Harvey, B.J.**, Holzman, B.A. 2009. Dynamics of pitch canker disease in bishop pines (*Pinus muricata*) at Point Reyes National Seashore, CA. *Annual Meeting, Association of American Geographers*, Las Vegas, NV. Poster presentation. (first two authors contributed equally).

### Primary advisor of postdoctoral associate or graduate / undergraduate student-mentee presenter

® Graduate student or undergraduate student presenter directly advised as primary advisor

#### Invited presentations

- ®Buonanduci M.S., Donato, D.C., Halofsky, J.S., Reilly, M.J., Kennedy, M.C., **Harvey, B.J.**, 2023. Examining wildfires from other regions and fire regimes yields insights into future patterns of burn severity in western Cascadia. *USFS PNW Research Station Oregon Post-fire Research and Monitoring Symposium*, Corvallis, OR. Oral presentation.
- ®Morris, J.E., ®Laughlin, M.M, ®Rangel-Parra, L.K., Donato, D.C., Halofsky, J.S., **Harvey, B.J.** 2023. Impacts of forest structure and burn severity on reburn potential in western Cascadia. *USFS PNW Research Station Oregon Post-fire Research and Monitoring Symposium*, Corvallis, OR. Oral presentation.
- ®Rangel-Parra, L.K., ®Laughlin, M.M, ®Morris, J.E., Donato, D.C., Halofsky, J.S., **Harvey, B.J.** 2023. Composition and diversity of early-seral forest communities vary with burn severity and pre-fire stand age following fire in western Cascadia. *USFS PNW Research Station Oregon Post-fire Research and Monitoring Symposium*, Corvallis, OR. Oral presentation.
- ®Laughlin, M.M, ®Rangel-Parra, L.K., ®Morris, J.E., Donato, D.C., Halofsky, J.S., **Harvey, B.J.** 2023. Patterns and drivers of conifer regeneration following stand-replacing wildfire in western Cascadia. *USFS PNW Research Station Oregon Post-fire Research and Monitoring Symposium*, Corvallis, OR. Oral presentation.
- ®Buonanduci, M.S., Donato, D.C., Halofsky, J.S., Kennedy, M.C., **Harvey, B.J.** 2022. Western Cascadia wildfire: spatial patterns of burn severity and implications for future ecological impacts. UW-SAFS Quantitative Seminar Series. Oral Presentation.
- ®Agne, M.C., Fontaine J.B, Enright N.J., **Harvey, B.J.** 2021. Too soon? Evidence of declining post-fire regeneration in reburned serotinous forests. *9<sup>th</sup> International Fire Ecology and Management Congress*, Pensacola, FL (virtual in 2021 due to COVID-19 restrictions). Oral Presentation.
- ®Agne, M.C., Fontaine J.B, Enright N.J., **Harvey, B.J.** 2021. Too soon? Evidence of declining post-fire regeneration in reburned serotinous forests. *International Association for Landscape Ecology – North America Annual Meeting*. Reno, NV (virtual in 2021 due to COVID-19 restrictions). Oral Presentation.
- ®Agne, M.C., Fontaine J.B, Enright N.J., **Harvey, B.J.** 2020. Effects of short-interval reburn on knobcone pine regeneration in the Carr Fire. *2020 Northern California Botanists Symposium*. Chico, CA. Oral presentation.
- ®Agne, M.C., Fontaine J.B, Enright N.J., Bisbing S., **Harvey, B.J.** 2019. The race between fuels and fruits in serotinous pines of North America. *2019 Interval Squeeze Symposium*, Perth, Western Australia. Oral presentation.

#### Contributed presentations

- ®Rangel-Parra, L.K., ®Laughlin, M.M, ®Morris, J.E., Donato, D.C., Halofsky, J.S., **Harvey, B.J.** 2022. Laying the groundwork: Drivers of post-fire early-seral plant community trajectories in western Cascadia. *National Diversity in Stem Conference, Society for Advancement of Chicanos and Native Americans in Science*, San Juan, Puerto Rico. Oral Presentation.
- ®Morris, J.E., ®Laughlin, M.M, ®Rangel-Parra, L.K., Donato, D.C., Halofsky, J.S., **Harvey, B.J.** 2021. Carbon consequences and reburn potential following forest fires in western Cascadia: influence of stand age and burn severity. *9<sup>th</sup> International Fire Ecology and Management Congress*, Pensacola,

- FL (virtual in 2021 due to COVID-19 restrictions). Poster Presentation (received 1<sup>st</sup> place award in student poster contest).
- ©Rangel-Parra, L.K., ©Laughlin, M.M., ©Morris, J.E., Donato, D.C., Halofsky, J.S., **Harvey, B.J.** 2021. Laying the groundwork: Drivers of post-fire early-seral plant community trajectories in western Cascadia. *9<sup>th</sup> International Fire Ecology and Management Congress*, Pensacola, FL (virtual in 2021 due to COVID-19 restrictions). Poster Presentation.
- ©Laughlin, M.M., ©Rangel-Parra, L.K., ©Morris, J.E., Donato, D.C., Halofsky, J.S., **Harvey, B.J.** 2021. Disturbance and climate drivers of conifer regeneration following stand-replacing wildfire in western Cascadia, USA. *9<sup>th</sup> International Fire Ecology and Management Congress*, Pensacola, FL (virtual in 2021 due to COVID-19 restrictions). Poster Presentation.
- ©Radcliffe D.C., ©Laughlin M.M., Bakker J.D., Alvarado E.C., Churchill D.J., Peterson D.W., **Harvey B.J.** 2021. Long-term trajectories of fuels and stand structure in dry forests of central Washington. *9<sup>th</sup> International Fire Ecology and Management Congress*, Pensacola, FL (virtual in 2021 due to COVID-19 restrictions). Oral Presentation.
- ©Buonanduci, M.S., Donato, D.C., Halofsky, J.S., **Harvey, B.J.** 2021. Potential impacts of future fires in western Cascadia: scaling spatial patterns of burn severity. *9<sup>th</sup> International Fire Ecology and Management Congress*, Pensacola, FL (virtual in 2021 due to COVID-19 restrictions). Oral Presentation.
- ©Morris, J.E., ©Buonanduci, M.S., ©Agne, M.C., **Harvey, B.J.** 2020. Cutting a course: historical thinning treatments direct forest response to mountain pine beetle outbreaks. *Annual Meeting, Ecological Society of America*, Salt Lake City, UT (virtual in 2020 due to COVID-19 restrictions). Oral presentation.
- ©Radcliffe D.C., ©Laughlin M.M., Bakker J.D., **Harvey B.J.** 2020. Long-term trajectories of fuel profiles among experimental restoration treatments in dry forests of the Eastern Cascades. *Annual Meeting, Ecological Society of America*, Salt Lake City, UT (virtual in 2020 due to COVID-19 restrictions). Oral presentation.
- ©Buonanduci, M.S., ©Morris, J.E., ©Agne, M.C., **Harvey, B.J.** 2020. Tree neighborhood characteristics affect growth responses of host and non-host trees following a severe mountain pine beetle outbreak. *Annual Meeting, Ecological Society of America*, Salt Lake City, UT (virtual in 2020 due to COVID-19 restrictions). Oral presentation.
- ©Morris, J.E., ©Buonanduci, M.S., ©Agne, M.C., **Harvey, B.J.** 2019. Effects of historical thinning treatments on resistance to mountain pine beetle outbreaks differ between stand- and tree- scales. *US-International Association for Landscape Ecology Annual Meeting*, Fort Collins, CO. Oral presentation.
- ©Buonanduci, M.S., ©Morris, J.E., ©Agne, M.C., **Harvey, B.J.** 2019. Individual tree and local tree neighborhood factors affecting mountain pine beetle-induced lodgepole pine mortality. *US-International Association for Landscape Ecology Annual Meeting*, Fort Collins, CO. Oral presentation (honorable mention for best student presentation contest).
- ©Agne, M.C., Fontaine J.B., Enright N.J., Bisbing S., **Harvey, B.J.** 2019. The race between fuels and fruits: coupling seed bank and fuels dynamics to understand forest response to short interval fires. *US-International Association for Landscape Ecology Annual Meeting*, Fort Collins, CO. Oral presentation
- ©Agne, M.C., Fontaine, J.B., Enright, N. J., Bisbing, S., **Harvey, B.J.** 2018. Post-fire propagule availability following short interval fires in California closed-cone conifer forests. *Fire Continuum Conference: Preparing for the Future of Wildland Fire*. Missoula, MT. Poster presentation (received 1<sup>st</sup> place award in student poster contest).
- ©Saber, S.J., **Harvey, B.J.** 2018. Do You CBI what I See? Relationships among multiple field measures of burn severity in the US Interior Pacific Northwest and Northern Rockies. *Fire Continuum*

*Conference: Preparing for the Future of Wildland Fire.* Missoula, MT. Poster presentation (received 2<sup>nd</sup> place award in student poster contest).

## TEACHING

### *University of Washington*

Forest Ecology (5-credit graduate / upper div. undergraduate course, SEFS 501 / ERM 401; 60 students)

2017 - *Lead Instructor* (designed and delivered lectures, fieldtrips, and discussion sections)

Mean Adjusted Combined Median Teaching Evaluation = **4.9/5.0**

Advanced Landscape Ecology (5-credit graduate course, SEFS 541; 20 students)

2019 - *Lead Instructor* (designed and delivered lectures, lab exercises, and discussion sections)

Adjusted Combined Median Teaching Evaluation = **4.1/5.0**

Old Growth Forest Ecology and Management (5-credit undergraduate course, ESRM 315; 40 students)

2017 - 2020 *Lead Instructor* (designed and delivered lectures, fieldtrips, and discussion sections)

Mean Adjusted Combined Median Teaching Evaluation = **4.9/5.0**

Forest resilience to disturbance in a warming climate (2-credit graduate course, SEFS 521b; 20 students)

2020 - *Co-Instructor* (designed and delivered lectures, facilitated discussion sections as a cross-institution online seminar between University of Washington and University of Wisconsin)

Mean Adjusted Combined Median Teaching Evaluation = **4.7/5.0**

Forests, Fire, and Society (5-credit undergraduate course, ESRM 101; 200 students)

2022 - *Lead Instructor* (designed and delivered lectures, virtual fieldtrips, and discussion sections)

Mean Adjusted Combined Median Teaching Evaluation = **4.5/5.0**

### *University of Wisconsin-Madison*

General Ecology (upper division, Botany/Forest & Wildlife Ecology/Zoology 460; 120 students)

2011 - 2015 *Laboratory Instructor* (designed and delivered laboratory curriculum for two sections of 24 students each; designed and facilitated discussion sections focused on ecological literature)

2013 *Course Coordinator* (developed course curriculum and supervised laboratory/discussion section teaching assistants, facilitated course logistics)

Introductory Biology (lower division, Botany/Forest & Wildlife Ecology/Zoology 152; 250 students)

2010 - 2011 *Laboratory Instructor* (designed and delivered laboratory curriculum for two sections of 24 students each; advised students on semester-long research projects and scientific writing)

### *San Francisco State University*

Introductory Physical Geography (lower division, Geography 101; 100 students)

2009 *Lead Instructor/Lecturer* (designed and delivered lectures and exams to 100 students)

2008 - 2009 *Teaching Assistant* (delivered laboratory curriculum for two sections of 50 students each)

Introductory Environmental Science/Studies (lower division, Geography 600; 80 students)

2008 *Teaching Assistant* (facilitated discussion sections, performed guest lectures, grading)

## OUTREACH ACTIVITIES, DEPARTMENTAL SEMINARS, AND GUEST LECTURES

### *Outreach activities*

2022-2023 Federation of American Scientists, Wildland Fire Policy Accelerator for recommendations to US Congress Wildland Fire Mitigation and Management Commission. Invited expert.

2022 Governor Inslee (WA), Roundtable Discussion on Forest Health and Climate Change in Washington. Invited expert.

2021 King County (WA) Climate Preparedness and Emergency Management: *Past, present, and future of fires in western Washington: What we know and what we don't*. Invited speaker



- 2021 Washington Native Plant Society: *Forest Fires in Cascadia: Past, Present, and Future*. Invited speaker. ([link](#)).
- 2020 North Cascades Audubon Society & Whatcom Museum: *A virtual presentation: Fire in Washington's Forests*. Invited speaker.
- 2019 Seward Park Audubon Center, Science, Nature, and a Biscuit: *Fire in Washington's forests*. Invited speaker.
- 2018 Northern Rockies Fire Science Network: *Long-duration fire and re-burn effects in Yellowstone National Park*. Trip Leader and co-organizer. ([link](#)).
- 2018 Climate Science on Tap, University of Washington Program on the Environment
- 2018 UW College of the Environment *Labs Unlocked: Beetles, blazes, and biofuels*.
- 2018 Invited speaker to Hyla Middle School, Bainbridge Island, WA: *Fire in WA Forests*
- 2017 Northwest Climate Science Center. Scientific Advisory Panel (forest management).
- 2016 Northern Rockies Fire Science Network: *Bark beetle outbreaks and wildfires – finding consensus and coherent messages for decision-makers*. Lead organizer.
- 2016 Northern Rockies Fire Science Network – Network of Fire Science Champions Roundtable. *Fire and bark beetle research: A discussion of manager information needs*. Invited speaker.
- 2016 Smith Fellows: *Exploring social-ecological resilience in the wildland-urban interface of Colorado's Front Range – a fieldtrip*. Co-organizer/leader.
- 2015 Fire Research and Management Exchange System: *Wildfire Science and Policy Working Group*. Team member ([link](#)).
- 2015 University of Colorado, Graduate course in Science and Environmental Journalism: *Fire ecology and beetle outbreaks in Rocky Mountain forests*. Invited speaker.
- 2015 Northern Rockies Fire Science Network: *Fire history and fire ecology of Yellowstone – A field tour for managers and scientists*. Trip Leader and co-organizer. ([link](#)).
- 2015 Colorado Legislature, Senate and Representative bipartisan *Wildfire Matters Review Committee*. Invited expert testimony.
- 2014 East High School, Madison, WI. Mathematics of Planet Earth: Math Week: *Drought, wildfires, and beetle outbreaks: Studying forests during a period of rapid change*.
- 2014 East High School, Madison, WI. A.P. Environmental Science Class: *Forest health, disturbance, and climate change*.
- 2013 National Park Service Webinar Series: Climate Change in America's National Parks: *Research from the Next Generation: George Melendez Wright Climate Change Fellowship Science in Parks*.
- 2013 East High School, Madison, WI. Mathematics of Planet Earth: Math Week: *Wildfires, bark beetles, and forests: Disturbance ecology in the Rocky Mountains*.
- 2012 Sun Prairie High School, Sun Prairie, WI. *Climate change: separating science and politics*.

Invited keynote addresses, departmental colloquia seminars, and panel discussions

- 2023 Colloquia seminar, Technical University of Munich (Germany), Dept. Life Sciences
- 2023 Invited speaker, Sense of Place Lecture Series, Hood River, OR: *Wildfire in the Gorge: The good, the bad, and lessons from Eagle Creek* ([link](#))
- 2022 Colloquia seminar, Western Washington University, College of the Environment
- 2021 Colloquia seminar, University of Maryland – Baltimore, Department of Geography and Environmental Systems
- 2021 Invited speaker, Cascadia Wildfire and Urban Smoke Seminar Series. *Forest Fires in Western Cascadia: Drivers, Characteristics, and Indicators of Post-Fire Resilience*
- 2021 Colloquia seminar, University of Washington, Department of Atmospheric Sciences



- 2020 Invited speaker and panelist, Cascadia Innovation Corridor forum: Wildfires and urban smoke know no borders. *Westside Story: forest fires in western Cascadia*
- 2020 Invited speaker, University of Washington, Program on Climate Change Virtual Summer Institute (virtual due to COVID-19 restrictions).
- 2020 Invited speaker, Cascadia Wildfire and Urban Smoke Working Group: *Understanding the drivers, characteristics, and effects of forest fires in western Cascadia*
- 2019 Featured invited speaker, University of Washington, Henry Suzzallo Society, Seattle, WA.
- 2019 Invited panelist, 2019 Northwestern Forests Fire Science Summit, briefing to the Executive team of the US Forest Service and the US Congress, Washington D.C.
- 2019 Colloquia seminar, University of Washington, Department of Atmospheric Sciences
- 2019 Featured invited speaker, University of Washington, Dawg Days in the Desert – event for UW alumni and friends, Palm Desert, CA.
- 2019 Invited panelist, University of Washington School of Environmental & Forest Sciences and PEMCO Insurance co-sponsored seminar: *Fired Up: Building wildfire resilient communities in a changing climate.*
- 2019 Colloquia seminar, Texas A&M University, Department of Ecosystem Science and Management and Ecology and Evolutionary Biology Interdisciplinary Program
- 2018 Invited speaker, USGS Northwest Climate Adaptation Science Center, Puget Sound Climate Preparedness Collaborative, Tulalip Tribes, and UW-Climate Impacts Group *Conference on Managing Western Washington Wildfire Risk in a Changing Climate.*
- 2018 Invited panelist, 2018 Fire Summit for the Western Governors Association.
- 2018 UW College of the Environment Inaugural Seminar Series on Critical Interdisciplinary Problems: *West coast wildfires: What are the key scientific issues?*
- 2018 Colloquia seminar, University of Washington, School of Aquatic and Fishery Sciences Quantitative Seminar Series.
- 2018 Invited speaker, Lynnwood (WA) Public Library, Series on Climate Change in Cascadia
- 2018 Invited panelist, UW-SEFS Xi Sigma Pi Forestry Honor Society Career Panel
- 2017 Invited panelist, University of Washington, Center for Communication, Difference, and Equity – Racial Ecologies Conference.
- 2016 Colloquia seminar, University of Washington, School of Environmental & Forest Sciences.
- 2016 Keynote address, Workshop on Teaching Controversial Science Topics, Department of Ecology and Evolutionary Biology, University of Colorado – Boulder.
- 2016 Colloquia seminar, Colorado State University, Dept. of Forest and Rangeland Stewardship
- 2016 Colloquia seminar, University of Texas - San Antonio, Environmental Science Program.
- 2015 Colloquia seminar, University of Colorado, Department of Geography.
- 2015 Keynote address, Annual Meeting, Guild of Rocky Mountain Ecologists and Evolutionary Biologists, University of Colorado.
- 2015 Colloquia seminar, Western State Colorado University, Department of Natural and Environmental Sciences Seminar Series.
- 2015 Colloquia seminar, Oregon State University, Dept. of Forest Ecosystems and Society
- 2013 Colloquia seminar, University of Wisconsin – Madison, Chaos and Complex Systems Seminar Series.

Invited Guest lectures

- 2022 University of Washington, ESRM 201: Sustaining Pacific Northwest Ecosystems
- 2022 Western Washington University, ESCI 392: Introduction to Global Change
- 2021 University of Washington, ESRM 441: Landscape Ecology
- 2021 University of Washington, SEFS 500: Graduate Student Orientation Seminar
- 2021 University of Washington, ESRM 201: Sustaining Pacific Northwest Ecosystems

2021	University of Washington, UW Program on Climate Change Seminar: Wildfires & Climate
2021	University of Washington, SEFS 509: Analysis of Research Problems
2021	University of Washington, Jackson School of International Studies: Task Force: Wildfires
2020	University of Washington, ESRM 441: Landscape Ecology
2020	University of Washington, ESRM 201: Sustaining Pacific Northwest Ecosystems
2020	Western Washington University, ESCI 392: Introduction to Global Change
2019	University of Washington, ESRM 441: Landscape Ecology
2019	University of Washington, ESRM 201: Sustaining Pacific Northwest Ecosystems
2018	University of Washington, ESRM 441: Landscape Ecology
2018	University of Washington, ESRM 201: Sustaining Pacific Northwest Ecosystems
2018	University of Washington, ESRM 300: Sustainability Seminar
2017	University of Washington, ESRM 441: Landscape Ecology
2017	University of Washington, ESRM 201: Sustaining Pacific Northwest Ecosystems
2016	University of Colorado, Geography 4371: Forest Geography
2016	University of Colorado, Ecology and Evolutionary Biology 6100: Science Communication
2014	Humboldt State University, Geography 357: Climate, Ecosystems and People
2014	University of Wisconsin – Madison, Entomology 473: Plant-Insect Interactions
2013	University of Wisconsin – Madison, Botany 460: General Ecology
2012	University of Colorado – Boulder, Geography 5241: Forest Dynamics and Disturbance
2012	University of Wisconsin – Madison, Botany 460: General Ecology
2012	University of Wisconsin – Madison, Entomology 473: Plant-Insect Interactions
2011	University of Wisconsin – Madison, Botany 460: General Ecology

## ADVISING, MENTORING, AND TRAINING

### *Graduate student advisor (Primary advisor)*

#### **Current:**

2023 -	<b>Sofia Saenz Kruzka</b> , Environmental & Forest Sciences, University of Washington (MS)
2022 -	<b>Angela D. Gonzalez</b> , Environmental & Forest Sciences, University of Washington (PhD)
2021 -	<b>Jenna E. Morris</b> , Environmental & Forest Sciences, University of Washington (PhD)
2020 -	<b>Liliana K. Rangel-Parra</b> , Env. & Forest Sciences, University of Washington (PhD)
2020 -	<b>Madison M. Laughlin</b> , Env. & Forest Sciences, University of Washington (PhD)
2019 -	<b>Don C. Radcliffe</b> , Environmental & Forest Sciences, University of Washington (PhD)

#### **Completed:**

2020 - 2023	<b>Michele S. Buonanduci</b> , Quan. Ecol. & Res. Mgmt., University of Washington (PhD)
2020 - 2022	<b>Liliana K. Rangel-Parra</b> , Env. & Forest Sciences, University of Washington (MS)
2020 - 2022	<b>Madison M. Laughlin</b> , Environmental & Forest Sciences, University of Washington (MS)
2017 - 2022	<b>Michelle C. Agne</b> , Environmental & Forest Sciences, University of Washington (PhD)
2018 - 2020	<b>Jenna E. Morris</b> , Environmental & Forest Sciences, University of Washington (MS)
2018 - 2019	<b>Michele S. Buonanduci</b> , Quan. Ecol. & Res. Mgmt., University of Washington (MS)
2017 - 2019	<b>Saba J. Saberi</b> , Environmental & Forest Sciences, University of Washington (MS)

### *Postdoctoral researchers and/or research scientists trained*

#### **Current:**

2023 -	<b>Michele S. Buonanduci</b> , Postdoctoral Researcher, co w/ Ailene K. Ettinger (TNC)
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#### **Former:**

2022 - 2023	<b>Sofia Saenz Kruzka</b> , Assistant Research Scientist, University of Washington-SEFS
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2019 - 2020 **Madison M. Laughlin**, Assistant Research Scientist, University of Washington-SEFS

***Graduate student committee member***

2023 - **Danielle Holt**, Environmental & Forest Sciences, University of Washington (PhD)  
 2023 - **Leticia Santillana**, Environmental & Forest Sciences, University of Washington (MS)  
 2023 - **Christopher Anderson**, Department of Biology, University of Washington (PhD)  
 2022 - **Patrick Murphy**, Atmospheric Sciences, University of Washington (PhD)  
 2022 - **Turtle McCloskey**, Environmental & Forest Sciences, University of Washington (MS)  
 2021 - **Cassie Wells Lumbrazo**, Civil & Env. Engineering, University of Washington (PhD)  
 2021 - **Sofi Courtney**, Environmental & Forest Sciences, University of Washington (PhD)  
 2021 - **Caden Chamberlain**, Environmental & Forest Sciences, University of Washington (PhD)  
 2020 - **Claire Zarakas**, Atmospheric Sciences, University of Washington (PhD)  
 2019 - **Courtney Bobsin**, Environmental & Forest Sciences, University of Washington (PhD)  
 2018 - **Alexander Pane**, Environmental & Forest Sciences, University of Washington (PhD)  
 2018 - **Kavya Pradhan**, Department of Biology, University of Washington (PhD)  
 2017 - **Elizabeth van Wagtendonk**, Env. & Forest Sciences, University of Washington (PhD)  
 2017 - **Paulina Llamas**, Environmental & Forest Sciences, University of Washington (PhD)  
 2017 - 2022 **Colton Miller**, Environmental & Forest Sciences, University of Washington (PhD)  
 2019 - 2022 **Qiaoyun Peng**, Atmospheric Sciences, University of Washington (PhD)  
 2017 - 2021 **Stuart I. Graham**, Department of Biology, University of Washington (PhD)  
 2020 - 2021 **Lucas Vargas Zeppetello**, Atmospheric Sciences, University of Washington (PhD)  
 2019 - 2021 **Elena Becerril Salas**, Environmental & Forest Sciences, University of Washington (MS)  
 2019 - 2021 **Jalene Weatherholt**, Environmental & Forest Sciences, University of Washington (MS)  
 2018 - 2020 **Vivian Griffey**, Environmental & Forest Sciences, University of Washington (MS)  
 2018 - 2019 **Kimberly Ertel**, Environmental & Forest Sciences, University of Washington (MS)  
 2016 - 2019 **Robert A. Andrus**, Department of Geography, University of Colorado (PhD)  
 2017 - 2018 **Sean A. Jeronimo**, Environmental & Forest Sciences, University of Washington (PhD)  
 2016 - 2018 **Jake Betzen**, Environmental & Forest Sciences, University of Washington (MS)

***Undergraduate student mentoring***

2023 - 2024 **Christian Rolfson**, University of Washington, SEFS Undergraduate Capstone Project  
 2023 **Royale Williams**, UW – Doris Duke Conservation Scholars Program  
 2022 - 2023 **Sienna Patton**, University of Washington, SEFS Undergraduate Capstone Project  
 2022 **Mark Elbrecht**, University of Washington, SEFS Undergraduate Capstone Project  
 2021 **Margalit Shetreat-Klein**, UW – Doris Duke Conservation Scholars Program  
 2021 **Davien Graham**, UW – Doris Duke Conservation Scholars Program  
 2020 - 2021 **Madison Stone**, University of Washington, SEFS Undergraduate Capstone Project  
 2020 - 2021 **Allison Phillips**, University of Washington, SEFS Undergraduate Capstone Project  
 2019 - 2020 **Ashley Hillis**, University of Washington, SEFS Undergraduate Capstone Project  
 2019 - 2020 **Michael McNorvell**, University of Washington, SEFS Undergraduate Capstone Project  
 2018 - 2019 **Jalene Weatherholt**, University of Washington, SEFS Undergraduate Capstone Project  
 2018 - 2019 **Young-Eui Oh**, University of Washington, SEFS Undergraduate Capstone Project  
 2017 - 2018 **Luke Semler**, University of Washington, SEFS Undergraduate Capstone Project  
 2017 - 2018 **Amber Noble**, University of Washington, SEFS Undergraduate Capstone Project  
 2017 **Alexandra Orrego**, Georgia State University, UNAVCO RESESS Program  
 2016 **Evelin Flamenco**, West Virginia University, NSF REU at University of Colorado  
 2016 **Alexandra Orrego**, Georgia State University, UNAVCO RESESS Program

- 2016 **Shala Wallace**, Red Rocks Com. Coll., NSF REU – Research Experience for Community College Students at University of Colorado
- 2016 **Sara Dickey**, University of Colorado, Undergraduate Research Opportunities Program
- 2016 **Ben Shipley**, University of Colorado, Undergraduate Research Opportunities Program
- 2015 **Garth Ornelas**, University of Colorado, UNAVCO RESESS Program
- 2015 **Ashley Hoffmann**, University of Massachusetts, NSF REU at University of Colorado
- 2014 - 2015 **Stephen Kochaver**, University of Wisconsin, GIS Certificate Program Capstone Program
- 2014 **Oseghale Ituah**, University of Wisconsin, Biology Mentored Research Program
- 2014 **Bridget Gilmore**, University of Wisconsin, Biology Mentored Research Program
- 2013 **Katelyn Budke**, University of Wisconsin, Biology Mentored Research Program
- 2013 **Sarah Winter**, University of Wisconsin, Biology Mentored Research Program
- 2013 **Stephen Kochaver**, University of Wisconsin, Biology Major Senior Capstone Project
- 2012 **Kailey Burckhard**, University of Wisconsin, Biology Mentored Research Program
- 2012 **Adam Winegarden**, University of Wisconsin, Biology Mentored Research Program
- 2012 **Zachary Osterholz**, University of Wisconsin, Biology Mentored Research Program
- 2012 **Brooke Weiland**, University of Wisconsin, Independent Research Credits
- 2012 **Thomas Butusov**, University of Wisconsin, Independent Research Credits
- 2011 **Stephen Kochaver**, University of Wisconsin, Biology Mentored Research Program

#### SELECTED MEDIA COVERAGE

- 2023 Washington Climate Crisis, *Northwest Now* on PBS (KCTS 9), hosted by Tom Layson ([link](#))
- 2023 Are wildfires really getting worse? A Q&A with Brian Harvey, UW College of the Environment News, by Will Shenton ([link](#))
- 2023 How global warming and a wet winter may impact the US wildfire season, NBC News, by Evan Bush ([link](#))
- 2023 As climate warms, overlapping wildfires are changing forest resilience, UW College of the Environment News, by Will Shenton ([link](#))
- 2022 Bolt Creek Fire has burned up to 8,000 acres, and many aren't evacuating, KUOW (NPR affiliate), by Kim Malcom and John Ryan ([link](#))
- 2022 Fire activity expected on both sides of the Cascades this summer, King 5 (NBC affiliate) Seattle News ([link](#))
- 2021 Scorched Earth: Why Washington wildfires are getting bigger, King 5 (NBC affiliate) Seattle News 1-hr special, by Glenn Farley ([link](#))
- 2021 'Megafire' declared near Mount Rainier after exceeding 100,000 acres, King 5 (NBC affiliate) Seattle News ([link](#))
- 2021 Fighting fires in western Washington requires different approaches. *Crosscut* ([link](#))
- 2021 Wildfires could become more common in western Washington; How will forests handle it? NBC NEWS (King 5 – Seattle), news segment by Glenn Farley ([link](#))
- 2021 Heat wave sparks historically unseasonable wildfires in West, THE HILL, by Zack Budryk ([link](#))
- 2021 States of Emergency: Wildfire threat. Facebook live video panel interview, ABC NEWS (KOMO-Seattle), hosted by Abby Acone ([link](#))
- 2020 How climate change affects wildfires, like those in the west, and makes them worse. *ABC NEWS*, by Julia Jacobo ([link](#))
- 2020 As wildfires continue in western United States, biologists fear for vulnerable species. *SCIENCE*, 370 (6512): 18-19, by Elizabeth Pennisi ([link](#))
- 2020 Wildfire West. *ABC NEWS Start Here* podcast ([link](#))

- 2020 Jerry Franklin and Brian Harvey: Plotting the next generation of forest research. *UW College of the Environment News*, by Dave Berndtson ([link](#))
- 2020 Humble Greenwater big on wildfire preparedness. *The News Tribune*, by Matt Driscoll ([link](#))
- 2019 Wildfires west of the Cascades: Rare, but large and severe. *UW News*, by Kiyomi Taguchi ([link](#))
- 2019 Wildfires are the new PNW summer norm – and they’re impacting our health. *Right as Rain*, by McKenna Princing ([link](#))
- 2019 What does the 2019 fire season look like for Washington? UW Experts weigh in. *UW College of the Environment News*, by John Meyer ([link](#))
- 2018 In a changing climate, will fire make a bigger run in Western Washington forests? *Seattle Times*, by Hal Bernton ([link](#))
- 2017 Fire on the Mountain: Two Forests Offer Clues to Yellowstone’s Fate in a Warming World. *New York Times*, by Michael Price ([link](#))
- 2017 RAPID Response: Brian Harvey to Study Re-Burned Yellowstone Forests. *The Straight Grain (Featured on UW Today)*, by Karl Wirsing ([link](#))
- 2016 Climate change impacts forests after wildfires: Fire and drought slows forest recovery. *CHANNEL 7 (ABC – DENVER) NEWS*, television interview with Kristen Skovira ([link](#))
- 2016 Fires, drought, in changing climate affecting high-altitude forests. *UNIVERSITY OF COLORADO NEWS*, by Jim Scott ([link](#)) \* story picked up by 13+ outlets
- 2016 Drought alters recovery of Rocky Mountain forests after fire. *UNIVERSITY OF WISCONSIN-MADISON NEWS*, by Kelly Tyrell ([link](#)) \* story picked up by 11+ outlets
- 2016 Bark beetles, wildfires, and our forests: 5 Questions for Dr. Brian J. Harvey. *HUFFINGTON POST*, by Tim Ward ([link](#))
- 2016 Policymakers must prepare for larger blazes. *GREENWIRE*, by Scott Streater ([link](#))
- 2015 More frequent wildfires. *How On Earth: The KGNU Science Show*, radio interview ([link](#))
- 2014 Don’t blame the beetles. *SCIENCE* 346(6206): 154-156, by Cally Carswell ([link](#))
- 2014 Study: Bark beetles not a wildfire bugaboo. *USA TODAY*, by Doyle Rice ([link](#))
- 2014 Mountain pine beetles get a bad rap for wildfires, study says. *UNIVERSITY OF WISCONSIN-MADISON NEWS*, by Kelly Tyrell ([link](#)); \*also printed in *SCIENCE DAILY* ([link](#)), *SCIENCE BLOG* ([link](#)), *ENVIRONMENTAL RESEARCH WEB* ([link](#)), *EUREKALERT* ([link](#)), *SCIENCE CODEX* ([link](#))
- 2014 Fire severity not linked to beetle kill, study finds. *WYOMING PUBLIC RADIO*, by Stephanie Joyce ([link](#))
- 2014 Bark beetles have little impact on burn severity – study. *ENERGY & ENVIRONMENT NEWS, PM*, by Phil Taylor ([link](#))
- 2014 Study: Pine beetle outbreaks not a big factor in the ecological severity of Western Wildfires. *SUMMIT COUNTY CITIZENS VOICE*, by Bob Berwyn ([link](#))
- 2014 Graduate Research Innovation Awards encourage young scientists to ask bold questions. *FIRE SCIENCE DIGEST*, by Gail Wells ([link](#))
- 2014 Why do you do what you do? *COMPASSBLOGS: Answering the “So what?” in science communication*, by Karen McLeod ([link](#))
- 2014 Finding common ground on fire science. *COMPASSBLOGS: Answering the “So what?” in science communication*, by Karen McLeod ([link](#))
- 2014 Burning down communication barriers among fire scientists. *COMPASSBLOGS: Answering the “So what?” in science communication*, by Karen McLeod ([link](#))
- 2012 Interns helping National Park Service study climate change at Lassen National Park and in Rocky Mountain Forests. *NATIONAL PARKS TRAVELER*, by staff writer ([link](#))

2012 Youth engaging in climate change across the Service. *CLIMATE CHANGE RESPONSE PROGRAM NEWS*, by Tim Watkins ([link](#))

**ADDITIONAL PROFESSIONAL ACTIVITIES, CONTRIBUTIONS, AND TRAINING**

2021 NSF Innovation Lab: Wildfire and the Biosphere, virtual meeting, invited participant  
 2020 Speak Out Summer Institute for building equity and social justice education to create inclusive learning environments on campus and online, virtual meeting  
 2019 National Ecological Observatory Network (NEON) Science Summit, Boulder, CO  
 2017 *Group Facilitation Training*. Smith Fellows Retreat, Detroit, MI  
 2016 *Leadership awareness, skills, and practices*, Smith Fellows Retreat, Raquette Lake, NY  
 2016 Invited participant, *Equity and Inclusion for the Society for Conservation Biology*, American Museum of Natural History, New York, NY.  
 2016 Organizer, *Diversity in Ecological Science Workshop*, Smith Fellows Retreat, Boulder, CO  
 2015 Invited participant, *Ecological Drought Workshop – Impacts, resistance, and recovery*, North Central Climate Science Center, USGS Science Center, Fort Collins, CO  
 2015 *Storytelling in scientific communication*, workshop, Smith Fellows Retreat, Cedar City, UT  
 2015 COMPASS policy training participant, *The Science of Wildfire: Navigating a path to engagement with policymakers*, The Nature Conservancy, Boulder, CO  
 2015 Research Database Coordinator, Northern Rockies Fire Science Network  
 2014 NSF Research Coordination Network Workshop, *Novus II: Biogeochemical Interactions with Disturbance Events*, Rocky Mountain National Park, CO  
 2014 COMPASS media training participant, *The Science of Wildfire: Advanced Communication Workshop*, Greenfire Campus, Seattle, WA  
 2014 Structural Equation Modeling Workshop, led by Dr. James Grace (USGS), Madison, WI  
 2009 GIS Database Developer, San Francisco Weed Management Area, San Francisco, CA  
 2009 Fire History Sub-Group, 19<sup>th</sup> Annual North American Dendroecological Fieldweek, Hampshire College, MA  
 2006 - 2008 Environmental Scientist, Ninyo and Moore Environmental Consultants, Oakland, CA  
 2006 Project Manager – Resource Optimization, SkyWest Airlines, San Francisco, CA  
 2003 GIS Technician, Santa Barbara County Surveyors Office, Santa Barbara, CA  
 2001 Field Technician, Canadian Corridor Wolf Recovery Project, Kalispell, MT

**PROFESSIONAL AND DEPARTMENTAL SERVICE**

Manuscript reviewer (average 10-12 reviews per year) for: *BioScience, Canadian Geographer, Canadian Journal of Forest Research, Ecology, Ecological Applications, Ecology and Evolution, Ecology Letters, EcoScience, Ecosphere, Fire Ecology, Forest Ecology and Management, Forests, Geografiska Annaler (Series A, Physical Geography), Global Change Biology, Global Ecology and Biogeography, International Journal of Wildland Fire, Journal of Applied Ecology, Journal of Ecology, Journal of Vegetation Science, Nature – Scientific Reports, Northwest Science, Oecologia, Plant Ecology, Physical Geography, PLoS One, Proceedings of the National Academy of Sciences, Regional Environmental Change, Scandinavian Journal of Forest Research.*

Seattle City Light Wildfire Risk Reduction Strategy – expert reviewer (2023)  
 Lead guest editor at *Plant Ecology* for special issue on fire-climate interactions (2021 – 2022)  
 King County (WA) Wildfire Risk Reduction Strategy – Forest Health Working Group (2021 – current)  
 Committee member, UW College of the Environment Diversity, Equity, and Inclusion Task Force (2021-2022)  
 Committee member, USFS Rocky Mountain Research Station Missoula Fire Sciences Laboratory hiring committee for Landscape Fire ecologist (GS-12) (2022)



Committee member, UW-SEFS faculty cluster hire for three positions in climate adaptation science (2021-2022)

Co-Chair, UW-SEFS Diversity Equity Inclusion Committee (2019- 2021)

Committee member, UW-SEFS Diversity Equity Inclusion Committee (2017- current)

Committee member, UW-SEFS Curriculum Committee (2022- current)

Committee member / UW-SEFS Representative, Wind River (Experimental Forest & NEON) Operations Committee (2018- current)

Committee member, UW-QERM Admissions Committee (2019)

Fellowship Review panelist, David H. Smith Conservation Research Fellowship (2021)

Fellowship Review panelist, David H. Smith Conservation Research Fellowship (2020)

Grant reviewer, National Science Foundation, Division of Environmental Biology (2021)

Grant reviewer, National Science Foundation, Division of Environmental Biology (2019)

Grant reviewer, National Science Foundation, Office of Integrative Activities (2019)

Grant reviewer, National Science Foundation, Division of Environmental Biology (2018)

Grant review panelist, Joint Fire Science Program (2018)

Grant review panelist, Austrian Academy of Sciences (2018)

Grant review panelist, University of Washington Royalty Research Fund (RRF) (2018, 2020)

Invited guest speaker, *Opportunities and strategies for securing ecology student funding*, Annual meeting, Ecological Society of America, Baltimore, MD (2015)

Grant review panelist, Joint Fire Science Program (2014)

President/Founder, University of Wisconsin Chapter, Student Association for Fire Ecology (2013- 2015)

President, Graduate Student Organization, Dept. of Zoology, University of Wisconsin (2013-2014)

Graduate student representative, Ecology Course Coordinator Hiring Committee, Dept. of Botany, University of Wisconsin (2013)

Representative, Graduate Student Organization, Dept. of Zoology, University of Wisconsin (2010-2013)

### **PROFESSIONAL MEMBERSHIPS**

Ecological Society of America (ESA); Society for Conservation Biology (SCB) – Honorary Lifetime Member; U.S. International Association for Landscape Ecology (US-IALE); Association for Fire Ecology (AFE).