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<i>CURRENT POSITION</i>	<b>Research Ecologist, USDA Forest Service</b> Rocky Mountain Research Station Wildlife and Terrestrial Ecosystems Program	<b>Albuquerque, NM</b>
<i>FACULTY ROLES</i>	<b>Assistant Professor (Adjunct), Univ. of New Mexico</b> Biology Department	<b>Albuquerque, NM</b>
	<b>Assistant Professor (Adjunct), Univ. of Wisconsin</b> Dept. of Forest and Wildlife Ecology	<b>Madison, WI</b>
<i>PAST POSITIONS</i>	<b>Post-doctoral Researcher, University of Florida</b> Dept. of Wildlife Ecology and Conservation	<b>Gainesville, FL</b>
	<b>Research Statistician, University of Wisconsin</b> Dept. of Forest and Wildlife Ecology	<b>Madison, WI</b>
<i>EDUCATION</i>	<b>University of Wisconsin, Ph.D.</b> Dept. of Forest and Wildlife Ecology, August 2019 <small>minor Statistics</small>	<b>Madison, WI</b>
	<b>University of Wisconsin, M.Sc.</b> Dept. of Forest and Wildlife Ecology, May 2016	<b>Madison, WI</b>
	<b>University of Wisconsin, B.Sc.</b> Dept. of Zoology, May 2011	<b>Madison, WI</b>
<i>AWARDS &amp; DISTINCTIONS</i>	2022 Student Publication Award (co-author), The Wildlife Society 2021 Best Scientific Publication Award, Rocky Mountain Research Station 2021 Early Career Scientist Award, Rocky Mountain Research Station 2021 Performance Award, Rocky Mountain Research Station 2020 Performance Award, Rocky Mountain Research Station 2019 Best Dissertation Award, Dept. Forest and Wildlife Ecology, U. Wisconsin 2018 Student Presentation Award (3 <sup>rd</sup> Place), The Wildlife Society Annual Mtg. 2018 Robert B. Berry Award, American Ornithological Society 2017 Best Talk (Early Career Researcher), British Ornithologists Union 2016 McCabe-Keith Graduate Research Excellence Award, U. Wisconsin 2016 Finalist, Best Student Talk, North Am. Congress for Conservation Biology	

RESEARCH  
FUNDING

Total research funding received: \$4,411,715

2023-2028 (active) *Monitoring to inform the conservation of the California spotted owl and other sensitive species, \$1,213,999.* Source: US Forest Service: Pacific Southwest Region.

2023-2025 (active) *Mexican spotted owl telemetry and habitat use monitoring, \$421,432.* Source: US Forest Service - Four Forests Restoration Initiative (4FRI). *Role:* PI.

2023-2025 (active) *GPS-tagging of Mexican spotted owls to inform fuels reduction, forest restoration, and management, \$450,000.* Source: US Forest Service - Southwestern Region. *Role:* PI.

2023-2025 (active) *Heating up: pikas and climate change in Glacier National Park, MT, \$182,040.* Source: Glacier National Park Conservancy. *Role:* PI.

2023-2025 (active) *Wildlife habitat analysis: living maps for conservation, \$210,000.* Source: US Forest Service - Washington Office and US Fish and Wildlife Service. *Role:* PI.

2022-2024 (active) *Enhancing the design and monitoring of fuels management for California spotted owls and avian communities in the Sierra Nevada, \$404,056.* Source: National Fish and Wildlife Foundation and University of Wisconsin-Madison. *Role:* co-PI.

2021-2022 (active) *An automated habitat monitoring system for Mexican spotted owls, \$26,000.* Source: US Forest Service Region 3. *Role:* PI.

2021-2023 (active) *Monitoring to inform the conservation of the California spotted owl, \$128,000.* Source: US Forest Service Region 5. *Role:* co-PI.

2021-2023 (active) *Assessing the distribution of spotted owls and their habitat in southern California, \$310,000.* Source: CA Department of Fish and Wildlife. *Role:* co-PI.

2021-2024 (active) *Optimizing forest fuels reductions and biodiversity conservation in the Sierra Nevada under climate change, \$499,825.* Source: CA Department of Forestry and Fire Protection – California Climate Investments program. *Role:* co-PI.

2018-2019 *Movement ecology and impacts of landscape scale occurrence of severe fire on California spotted owls, \$22,263.* Source: The Nature Conservancy – California Lands Program, *Role:* Senior Personnel.

2016-2018. *Evaluating the effects of fire risk and forest restoration strategies on the viability of California spotted owls*, **\$221,100**. Source: US Forest Service Region 5. Role: Senior Personnel.

2015-2018. *Assessing the impacts of the King Fire on California spotted owls*, **\$323,000**. Source: US Forest Service and California Dept. of Fish and Wildlife. Role: Senior Personnel.

PEER-REVIEWED  
PUBLICATIONS

————— 2023 and In Press —————

42. Wilkinson, Z. A., H. A. Kramer, **G. M. Jones**, C. J. Zulla, K. McGinn, J. M. Barry, S. C. Sawyer, R. Tanner, R. J. Gutiérrez, J. J. Keane, M. Z. Peery (In press) Forest structure and heterogeneity improve prey acquisition and reproductive success for spotted owls in southern California. *Ornithological Applications XX*: duac048. [doi.org/10.1093/ornithapp/duac048](https://doi.org/10.1093/ornithapp/duac048)
41. Steel, Z.L., **G.M. Jones**, B.M. Collins, R. Green, A. Koltunov, K. Purcell, S.C. Sawyer, P. Stine (In press) Mega-disturbances cause rapid decline of mature conifer forest habitat in California. *Ecological Applications XX*: e2763. [doi.org/10.1002/eap.2763](https://doi.org/10.1002/eap.2763)
40. Squires, J.R., J.S. Ivan, K. Paolini, L.E. Olson, **G.M. Jones**, J.D. Holbrook (2023) Keystone structures maintain forest function for Canada Lynx after large-scale beetle outbreak. *Environmental Research: Ecology* 2: 011001. [doi.org/10.1088/2752-664X/ac8eb7](https://doi.org/10.1088/2752-664X/ac8eb7)
39. **Jones, G.M.**, A.J. Shirk, Z. Yang, R.J. Davis, J.L. Ganey, R.J. Gutiérrez, S.P. Healey, S.J. Hedwall, S.J. Hoagland, R. Maes, K. Malcolm, K.S. McKelvey, J.S. Sanderlin, M.K. Schwartz, M.E. Seamans, H.Y. Wan, S.A. Cushman (2023) Spatial and temporal dynamics of Mexican spotted owl habitat in the southwestern US. *Landscape Ecology* 38:7-22. [doi.org/10.1007/s10980-022-01457-1](https://doi.org/10.1007/s10980-022-01457-1)
38. Shirk, A.J., **G.M. Jones**, Z. Yang, R.J. Davis, J.L. Ganey, R.J. Gutiérrez, S.P. Healey, S.J. Hedwall, S.J. Hoagland, R. Maes, K. Malcolm, K.S. McKelvey, C. Vynne, J.S. Sanderlin, M.K. Schwartz, M.E. Seamans, H.Y. Wan, S.A. Cushman (2023) Automated habitat monitoring systems linked to adaptive management: a new paradigm for species conservation in an era of rapid environmental change. *Landscape Ecology* 38:23-37. [doi.org/10.1007/s10980-022-01418-8](https://doi.org/10.1007/s10980-022-01418-8)

————— 2022 —————

37. Chaudhary, V., V.R. Goswami, **G.M. Jones**, T.K. Ben, T. Tapi, C. Ri, M.K. Oli (2022). Using population monitoring programs to detect changes in mammalian communities. *Biological Conservation* 276: 109778. [doi.org/10.1016/j.biocon.2022.109778](https://doi.org/10.1016/j.biocon.2022.109778)

36. Ross, B.E., D.P. Collins, M.A. Boggie, C.L. Coxen, S.A. Carleton, **G.M. Jones** (2022) Habitat use of conifer forests for Interior Band-tailed Pigeons is mediated by precipitation. *Avian Conservation and Ecology* 17(2):32. [doi.org/10.5751/ACE-02315-170232](https://doi.org/10.5751/ACE-02315-170232)
35. **Jones, G.M.**, J. Ayars, S.A. Parks, H.E. Chmura, S.A. Cushman, J.S. Sanderlin (2022) Pyrodiversity in a warming world: research challenges and opportunities. *Current Landscape Ecology Reports*. \*Invited review\* <https://doi.org/10.1007/s40823-022-00075-6>
34. **Jones, G.M.**, E.K. Vraga, P.F. Hessburg, R.E. Keane, T.A. Spies, M.P. North, B.M. Collins, J.M. Lydersen, M.D. Hurteau, M.A. Finney, A.L. Westerling (2022) Counteracting wildfire misinformation. *Frontiers in Ecology and the Environment* 20: 392-393. [doi.org/10.1002/fee.2553](https://doi.org/10.1002/fee.2553)
33. Zulla, C.J., H.A. Kramer, **G.M. Jones**, J.J. Keane, K.N. Roberts, B.P. Dotters, S.C. Sawyer, S.A. Whitmore, W.J. Berigan, K.G. Kelly, A.K. Wray, R.J. Gutiérrez, M.Z. Peery (2022) Large trees and forest heterogeneity facilitate prey capture by California spotted owls. *Ornithological Applications* 124: duac024. [doi.org/10.1093/ornithapp/duac024](https://doi.org/10.1093/ornithapp/duac024)
32. Linley, G.D., C.J. Jolly, T.S. Doherty, W.L. Geary, D. Armenteras-Pascual, C. Belcher, R.B. Bird, A. Duane, M.-S. Fletcher, M. Giorgis, A. Haslem, **G.M. Jones**, L.T. Kelly, C.K.F. Lee, R. Nolan, C.L. Parr, J. Pausas, J.N. Price, A. Regos, E.G. Ritchie, J. Ruffault, G. Williamson, Q. Wu, D.G. Nimmo (2022) What do you mean, 'megafire'? *Global Ecology and Biogeography* 31:1906-1922. [doi.org/10.1111/geb.13499](https://doi.org/10.1111/geb.13499)
31. McGinn, K., F.A. Atuo, **G.M. Jones**, B.K. Hobart, D.J. Tempel, S.A. Whitmore, W.J. Berigan, R.J. Gutiérrez, M.Z. Peery (2022) Implications of non-ideal occupancy for the measurement of territory quality. *Global Ecology and Conservation*: e02097. [doi.org/10.1016/j.gecco.2022.e02097](https://doi.org/10.1016/j.gecco.2022.e02097)
30. Witt, W.C., R.J. Davis, Z. Yang, J.L. Ganey, R.J. Gutiérrez, S. Healey, S. Hedwall, S. Hoagland, R. Maes, K. Malcolm, J. Sanderlin, M. Seamans, **G.M. Jones** (2022) Linking robust spatiotemporal datasets to assess and monitor habitat attributes of a threatened species. *PLoS ONE* 17: e0265175. [doi.org/10.1371/journal.pone.0265175](https://doi.org/10.1371/journal.pone.0265175)
29. **Jones, G.M.**, B. Brosi, J.M. Evans, I.G.W. Gottlieb, X. Loy, M.M. Núñez-Regueiro, H.K. Ober, E. Pienaar, R. Pillay, K. Pisarello, L.L. Smith. R.J. Fletcher Jr. (2022) Conserving alpha- and beta-diversity in wood production landscapes. *Conservation Biology* 36: e13872. [doi.org/10.1111/cobi.13872](https://doi.org/10.1111/cobi.13872)
28. **Jones, G.M.**, A.R. Keyser, A.L. Westerling, W.J. Baldwin, J.J. Keane, S.C. Sawyer, J.D.J. Clare, R.J. Gutiérrez, M.Z. Peery (2022) Forest restoration limits

- megafires and supports species conservation under climate change. *Frontiers in Ecology and the Environment* 20: 210-216. [doi.org/10.1002/fee.2450](https://doi.org/10.1002/fee.2450)
27. Tempel, D.J., H.A. Kramer, **G.M. Jones**, R.J. Gutiérrez, S.C. Sawyer, A. Koltunov, M. Slaton, R. Tanner, B.K. Hobart, M.Z. Peery (2022) Population decline in California spotted owls near their southern range boundary. *Journal of Wildlife Management* 86: e22168. [doi.org/10.1002/jwmg.22168](https://doi.org/10.1002/jwmg.22168)
26. Gaines, W.L., P.F. Hessburg, G.H. Aplet, P. Henson, S.J. Prichard, D. Churchill, **G.M. Jones**, D.J. Isaac, C. Vynne (2022) Climate change and forest management on federal lands in the Pacific Northwest, USA: managing for dynamic landscapes. *Forest Ecology and Management* 504: 119794. [doi.org/10.1016/j.foreco.2021.119794](https://doi.org/10.1016/j.foreco.2021.119794)
25. **Jones, G.M.**, M.W. Tingley (2022) Pyrodiversity and biodiversity: a history, synthesis, and outlook. *Diversity and Distributions* 28: 386-403. \*Selected as Editor's Choice\* and \*Selected as 2021 Rocky Mountain Research Station's Best Scientific Publication\* [doi.org/10.1111/ddi.13280](https://doi.org/10.1111/ddi.13280)
- 2021 —————
24. North, M.P., R.A. York, B.M. Collins, M.D. Hurteau, **G.M. Jones**, E.E. Knapp, L. Kobziar, H. McCann, M.D. Meyer, S.L. Stephens, R.E. Tompkins, C.L. Tubbesing (2021) Pyrosilviculture needed for landscape resilience of dry western US forests. *Journal of Forestry* 119: 520-544. \*Selected as Editor's choice\* [doi.org/10.1093/jofore/fvab026](https://doi.org/10.1093/jofore/fvab026)
23. **Jones, G.M.**, H.A. Kramer, W.J. Berigan, S.A. Whitmore, R.J. Gutiérrez, M.Z. Peery (2021) Megafire causes persistent loss of an old-forest species. *Animal Conservation* 24: 925-936. \*Selected as cover article\* [doi.org/10.1111/acv.12697](https://doi.org/10.1111/acv.12697)
22. Kramer H.A., **G.M. Jones**, V.R. Kane, B. Bartl-Geller, J.T. Kane, S.A. Whitmore, W.J. Berigan, B.P. Dotters, K.N. Roberts, S.C. Sawyer, J.J. Keane, M.P. North, R.J. Gutiérrez, M.Z. Peery (2021) Elevational gradients strongly mediate habitat selection patterns in a nocturnal predator. *Ecosphere* 12: e03500. [doi.org/10.1002/ecs2.3500](https://doi.org/10.1002/ecs2.3500)
21. Andrus, R.A., A.J. Martinez, **G.M. Jones**, A.J.H. Meddens (2021) Assessing the quality of fire refugia for wildlife habitat. *Forest Ecology and Management* 482: 118868. [doi.org/10.1016/j.foreco.2020.118868](https://doi.org/10.1016/j.foreco.2020.118868)
20. Kramer, H.A.†, **G.M. Jones**†, S.A. Whitmore, J.J. Keane, F.A. Atuo, B.P. Dotters, S.C. Sawyer, S.L. Stock, R.J. Gutiérrez, M.Z. Peery (2021) California spotted owl habitat selection in a fire-managed landscape suggests conservation benefit of restoring historical fire regimes. *Forest Ecology and Management* 479: 118576. †co-lead authors [doi.org/10.1016/j.foreco.2020.118576](https://doi.org/10.1016/j.foreco.2020.118576)

19. Hobart, B.K., H.A. Kramer, **G.M. Jones**, B. Dotters, S.A. Whitmore, J.J. Keane, M.Z. Peery (2021) Stable isotopes reveal unexpected relationships between fire history and the diet of spotted owls. *Ibis* 163: 253-259. [doi.org/10.1111/ibi.12832](https://doi.org/10.1111/ibi.12832)
- 2020 —————
18. **Jones, G.M.**, R.J. Gutiérrez, W.M. Block, P.C. Carlson, E.J. Comfort, S.A. Cushman, R.J. Davis, S.A. Eyes, A.B. Franklin, J.L. Ganey, S. Hedwall, J.J. Keane, R. Kelsey, D.B. Lesmeister, M.P. North, S.L. Roberts, J. Rockweit, J.S. Sanderlin, S.C. Sawyer, B. Solvesky, D.J. Tempel, H.Y. Wan, A.L. Westerling, G.C. White, M.Z. Peery (2020) Spotted owls and forest fire: Comment. *Ecosphere* 11: e03312. [doi.org/10.1002/ecs2.3312](https://doi.org/10.1002/ecs2.3312)
17. **Jones, G.M.**, L.L. Smith, I.G.W. Gottlieb, H.K. Ober, B. Brosi, R.J. Fletcher Jr. (2020) Herpetofaunal responses to intensification of woody bioenergy production in a global biodiversity hotspot. *Forest Ecology and Management* 477: 118493. [doi.org/10.1016/j.foreco.2020.118493](https://doi.org/10.1016/j.foreco.2020.118493)
16. Ober, H.A., **G.M. Jones**, I.G.W. Gottlieb, S.A. Johnson, L.L. Smith, B. Brosi, R.J. Fletcher Jr. (2020) Bat community response to intensification of biomass production for bioenergy across the southeastern United States. *Ecological Applications* 30: e02155. [doi.org/10.1002/eap.2155](https://doi.org/10.1002/eap.2155)
15. **Jones, G.M.**, H.A. Kramer, S.A. Whitmore, W.J. Berigan, D.J. Tempel, C.M. Wood, B.K. Hobart, T. Erker, F.A. Atuo, N.K. Pietrunti, R. Kelsey, R.J. Gutiérrez, M.Z. Peery (2020) Habitat selection by spotted owls after a megafire reflects their adaptation to historical frequent-fire regimes. *Landscape Ecology* 35: 1199-1213. [doi.org/10.1007/s10980-020-01010-y](https://doi.org/10.1007/s10980-020-01010-y)
- 2019 —————
14. Gutiérrez, R.J., **G.M. Jones**, S.M. Redpath, A.B. Franklin, D. Simberloff, M.G. Turner, V.C. Radeloff, G.C. White, M.Z. Peery (2019) Reinforcing the concept of agenda-driven science: a response to Rohlf. *Frontiers in Ecology and the Environment* 17: 556-557. [doi.org/10.1002/fee.2131](https://doi.org/10.1002/fee.2131)
13. Wood, C.M., **G.M. Jones** (2019) Framing management of social-ecological systems in terms of the cost of failure: the Sierra Nevada, USA as a case study. *Environmental Research Letters* 14: 105004. [doi.org/10.1088/1748-9326/ab4033](https://doi.org/10.1088/1748-9326/ab4033)
12. Hobart, B.K., **G.M. Jones**, K.N. Roberts, B. Dotters, S.A. Whitmore, W.J. Berigan, M.G. Raphael, J.J. Keane, R.J. Gutiérrez, M.Z. Peery (2019) Trophic interactions mediate the response of predator populations to habitat change. *Biological Conservation* 238: 108217. [doi.org/10.1016/j.biocon.2019.108217](https://doi.org/10.1016/j.biocon.2019.108217)
11. **Jones, G.M.**, R.J. Gutiérrez, D.J. Tempel, W.J. Berigan, S.A. Whitmore, M.Z. Peery (2019) Megafire effects on spotted owls: elucidation of a growing threat

and a response to Hanson et al. (2018). *Nature Conservation* 37: 31-51.  
[doi.org/10.3897/natureconservation.37.32741](https://doi.org/10.3897/natureconservation.37.32741)

10. Peery, M.Z, **G.M. Jones**, R.J. Gutiérrez, S.M. Redpath, A.B. Franklin, D. Simberloff, M.G. Turner, V.C. Radeloff, G.C. White (2019) The conundrum of agenda-driven science in conservation. *Frontiers in Ecology and the Environment* 17: 80-82. [doi.org/10.1002/fee.2006](https://doi.org/10.1002/fee.2006)
  9. **Jones, G.M.**, M.Z. Peery (2019) Phantom interactions: use odds ratios or risk misinterpreting occupancy models. *The Condor: Ornithological Applications* 121: 1-7. [doi.org/10.1093/condor/duy007](https://doi.org/10.1093/condor/duy007)
  8. Berigan, W.J.†, **G.M. Jones**†, S.A. Whitmore, R.J. Gutiérrez, M.Z. Peery (2019) Cryptic wide-ranging movements lead to upwardly-biased occupancy in a territorial species. *Journal of Applied Ecology* 56: 470-480. †co-lead authors  
[doi.org/10.1111/1365-2664.13265](https://doi.org/10.1111/1365-2664.13265)
- 2018 and earlier —————
7. **Jones, G.M.**, J.J. Keane, R.J. Gutiérrez, M.Z. Peery (2018) Declining old-forest species as a legacy of large trees lost. *Diversity and Distributions* 24: 341-351.  
[doi.org/10.1111/ddi.12682](https://doi.org/10.1111/ddi.12682)
  6. Tempel, D.J., J.J. Keane, R.J. Gutiérrez, J.D. Wolfe, **G.M. Jones**, A. Koltunov, C.M. Ramirez, W.J. Berigan, C.V. Gallagher, T.E. Munton, P.A. Shaklee, S.A. Whitmore, M.Z. Peery (2016) Meta-analysis of California spotted owl (*Strix occidentalis occidentalis*) territory occupancy in the Sierra Nevada: habitat associations and their implications for forest management. *The Condor: Ornithological Applications* 118: 747-765. [doi.org/10.1650/CONDOR-16-66.1](https://doi.org/10.1650/CONDOR-16-66.1)
  5. **Jones, G.M.**, R.J. Gutiérrez, D.J. Tempel, S.A. Whitmore, W.J. Berigan, M.Z. Peery (2016) Megafires: an emerging threat to old-forest species. *Frontiers in Ecology and the Environment* 14: 300-306. [doi.org/10.1002/fee.1298](https://doi.org/10.1002/fee.1298)
  4. **Jones, G.M.**, R.J. Gutiérrez, D.J. Tempel, B. Zuckerberg, M.Z. Peery (2016) Using dynamic occupancy models to inform climate change adaptation strategies for California spotted owls. *Journal of Applied Ecology* 53: 895-905.  
[doi.org/10.1111/1365-2664.12600](https://doi.org/10.1111/1365-2664.12600)
  3. Tempel, D.J., R.J. Gutiérrez, J.J. Battles, D.L. Fry, Q. Guo, M.J. Reetz, S.A. Whitmore, **G.M. Jones**, B.M. Collins, S.L. Stephens, M. Kelly, W.J. Berigan, M.Z. Peery (2015) Evaluating short- and long-term impacts of fuels treatments and simulated wildfire on an old-forest species. *Ecosphere* 6: 1-18.  
[doi.org/10.1890/ES15-00234.1](https://doi.org/10.1890/ES15-00234.1)

2. Moyer-Horner, L.R., P.D. Mathewson, **G.M. Jones**, M.R. Kearney, W.P. Porter (2015) Modeling behavioral thermoregulation in a climate change sentinel. *Ecology and Evolution* 5: 5810-5822. [doi.org/10.1002/ece3.1848](https://doi.org/10.1002/ece3.1848)
1. **Jones, G.M.**, B. Zuckerberg, A.T. Paulios (2012) The early bird gets earlier: A phenological shift in migration timing of the American Robin (*Turdus migratorius*) in the state of Wisconsin. *Passenger Pigeon* 74: 131-142.

MANUSCRIPTS  
UNDER REVIEW

3. **Jones, G. M.**, J. Goldberg, T. Wilcox, L. Buckley, C. L. Parr, E. B. Linck, E. D. Fountain, M. K. Schwartz (*In review*) Fire-driven animal evolution in the Pyrocene.
2. Zulla, C.J., **G.M. Jones**, H.A. Kramer, J.J. Keane, K.N. Roberts, B.P. Dotters, S.C. Sawyer, S.A. Whitmore, W.J. Berigan, K.G. Kelly, R.J. Gutiérrez, M.Z. Peery (*In review*) Forest heterogeneity outweighs movement costs by enhancing hunting success and fitness in spotted owls.
1. Barry, J., **G. M. Jones**, B. Zuckerberg, R. Tanner, N. Kryshak, M. Z. Peery (*In review*) Potential collapse of spotted owl populations in Southern California.

INVITED  
CONFERENCE  
SYMPOSIA

- Jones, G.M.** (2022) Impact of wildfire on raptor communities. Symposium: *Contemporary issues in raptor conservation and management in North America*. The Wildlife Society Annual Meeting. 6-10 November. Spokane, WA.
- Jones, G.M.**, M.Z. Peery (2022) Fine-scale spotted owl movement data informs new approaches for management of burned and 'green' forests. Symposium: *Movement ecology for conservation: advances, applications, and opportunities*. The Wildlife Society Annual Meeting. 6-10 November. Spokane, WA.
- Jones, G.M.**, A. Shirk, Z. Yang, S. Cushman (2022) "Living maps": Automated habitat monitoring systems for avian conservation. Symposium: *Moving the needle on avian conservation in the southwestern US: Grand challenges and opportunities*. Wilson Ornithological Society Annual Meeting. 19 July. Santa Fe, NM.
- Jones, G.M.**, H.A. Kramer, R.J. Gutiérrez, M.Z. Peery (2021) Good fire: managed fire and pyrodiversity promote spotted owl conservation in the Sierra Nevada, CA. Symposium: *Wilderness for Science – Multidisciplinary Perspectives on the Causes and Consequences of Active Fire Regimes*. Association for Fire Ecology – 9<sup>th</sup> International Fire Ecology and Management Congress. 30 November. Miramar Beach, FL.
- Jones, G.M.**, M.W. Tingley (2021) Pyrodiversity and biodiversity: state of the science and research needs. Symposium: *Wildfire and Prescribed Fire Effects on*



*Biodiversity in US Forests*. The Wildlife Society 2021 Annual Meeting. 1-5 November.

**Jones, G.M.**, H.A. Kramer, R.J. Gutiérrez, M.Z. Peery (2021) The importance of wildfire patchiness and pyrodiversity for spotted owls. Symposium: *Towards a Comprehensive Understanding of Pyrodiversity*. IALE-North America 2021 Annual Meeting. 12-16 April.

**Jones, G.M.** (2021) Pyrodiversity, forest restoration, and spotted owl conservation. *Oregon Chapter of The Wildlife Society Seminar Series*. 25 March.

**Jones, G.M.** (2021) Pyrodiversity: a unifying conservation paradigm in the age of megafires. Symposium: *Fire Impacts on Terrestrial and Aquatic Ecosystems*. Western Association of Fish and Wildlife Agencies (WAFWA), Winter Meeting. 5 January.

**Jones, G.M.**, H.A. Kramer, R.J. Gutiérrez, M.Z. Peery (2020) California spotted owl responses to fire and lessons for fire management. Symposium: *Fire × Fauna: Wildfire and Prescribed Fire Effects on Wildlife*. USDA Forest Service Research & Development Webinar Series. 18 November.

**Jones, G.M.** (2020) New frontiers in spotted owl science. The Nature Conservancy Rio Grande Water Fund Fall Signatories Meeting. 15 October. Santa Fe, NM.

**Jones, G.M.**, H.A. Kramer, R.J. Gutiérrez, M.Z. Peery (2020) California spotted owl responses to fire in restored-fire and fire-suppressed landscapes. Symposium: *Wildfire and Prescribed Fire Effects on Wildlife in US Forests*. The Wildlife Society Annual Meeting. 30 September, Louisville, KY.

**Jones, G.M.**, H.A. Kramer, R.J. Gutiérrez, M.Z. Peery (2019) Effects of large, severe fires on spotted owls in the Sierra Nevada. Symposium: *Fire Severity and Ecosystem Response*. Association for Fire Ecology November Fire Congress. 18-22 November, Tucson, AZ.

**Jones, G.M.**, H.A. Kramer, A.R. Keyser, W.J. Baldwin, A.L. Westerling, S.C. Sawyer, J.J. Keane, R.J. Gutiérrez, M.Z. Peery (2019) Changing disturbance regimes, forest management, and the conservation of spotted owls in the Sierra Nevada. Symposium: *Fire and Forest Ecology in the 21<sup>st</sup> Century*. The Wildlife Society-Western Section Annual Meeting. 5 February, Yosemite National Park, CA.

**Jones, G.M.**, R.J. Gutiérrez, M.Z. Peery (2017) Beyond 'megafires': the spatial context of severe fire and its effect on spotted owls. Symposium: *Wildfire and Spotted Owls: It's a Burning Issue*. The Wildlife Society Annual Meeting. 25 September, Albuquerque, NM.

**Jones, G.M.**, R.J. Gutiérrez, D.J. Tempel, S.A. Whitmore, W.J. Berigan, M.Z. Peery (2016) Emerging mega-disturbances in California's Sierra Nevada: burning

questions about spotted owls and fire. California Forest Pest Council 65th Annual Meeting. 16 November, Davis, CA.

*INVITED  
SEMINARS*

**Jones, G.M.** (2023) Conserving wildlife in the Pyrocene. Los Alamos National Laboratories. 8 March. Los Alamos, NM.

**Jones, G.M.** (2023) Ecology and evolution of wildlife in fire-prone ecosystems: implications for conservation under global change. Department of Ecology and Evolution, University of Chicago. 6 February. Chicago, IL.

**Jones, G.M.** (2023) Can we conserve wildlife under changing fire regimes? The case of the spotted owl in the southwestern US. New Mexico State University, Department of Fish, Wildlife, and Conservation Ecology. 19 January. Las Cruces, NM.

**Jones, G.M.** (2022) Conserving wildlife under changing fire regimes. Missoula Fire Sciences Lab Seminar Series. 14 April.

**Jones, G.M.** (2022) Out of the ivory tower: the life and times of a US Forest Service scientist. McGill University, Academia Week. 26 January.

**Jones, G.M.**, H.A. Kramer, R.J. Gutiérrez, M.Z. Peery (2021) Can you have your cake and eat it, too? Forest restoration, spotted owls, and an enduring conservation conflict. Northern Arizona University, Forestry Seminar Series. 24 March.

**Jones, G.M.**, K.S. McKelvey, J.D. Golding, M.K. Schwartz (2020) Resource selection by animals: peril or promise for conservation? Boise State University. 14 October. Boise, ID.

**Jones, G.M.** (2020) "It depends": emphasizing ecological nuance to make science more meaningful for conservation. University of Colorado-Denver. Department of Integrative Biology, Fall Seminar Series. 4 September, Denver, CO.

**Jones, G.M.**, R.J. Gutiérrez, M.Z. Peery (2017) Searching for consensus in the spotted owl-fire debate: lessons from the 2014 King Fire and beyond. Northern Arizona University, Forestry Seminar Series. 6 September, Flagstaff, AZ.

**Jones, G.M.**, R.J. Gutiérrez, M.Z. Peery (2017) Searching for goldilocks: Balancing forest ecosystem restoration and old-forest species conservation. Utah State University, Forestry Extension Seminar. 11 January, Logan, UT.

*INVITED COURSE  
LECTURES*

**Jones, G.M.** (2023) Species distribution modeling. USFS National Advanced Silviculture Program - Module in Landscape Ecology. 30 January.

**Jones, G.M.** (2021) Silviculture for wildlife: fire, forest management, and spotted owl conservation. University of California - Berkeley. 17 November.

**Jones, G.M.** (2021) Species distribution modeling for conservation: building 'living maps' of Mexican spotted owl habitat in the southwestern US. USFS National Advanced Silviculture Program - Module in Landscape Ecology. 5 April.

**Jones, G.M.** (2018) Integrating species conservation and ecosystem management: a Sierra Nevada case study. Rochester Institute of Technology. 10 April, Rochester, NY.

INVITED  
TECHNICAL  
TALKS

**Jones, G.M.** (2023) Automated monitoring of wildlife habitat using living maps. Southern Sierra Nevada Fisher Working Group. The Wildlife Society-Western Section Annual Meeting. 8 February.

**Jones, G.M.,** A.J. Shirk, Z. Yang, R.J. Davis, S.A. Cushman (2023) Monitoring spotted owl habitat change with living maps. USDA Forest Service Region 5. 7 February.

**Jones, G.M.** (2023) Counteracting wildfire misinformation. USDA Forest Service Region 6 Environmental Coordinators - Monthly Meeting. 11 January.

**Jones, G.M.** (2021) Living maps for a rapidly changing world. USDA Forest Service Wildlife Program – National Quarterly Meeting. 25 March.

**Jones, G.M.** (2021) Severe fire patch size and pyrodiversity: implications for spotted owl conservation. Southern Sierra Nevada Fisher Working Group. The Wildlife Society-Western Section Annual Meeting. 3 February.

**Jones, G.M.,** H.A. Kramer, R.J. Gutiérrez, M.Z. Peery (2020) Fire, forest restoration, and spotted owl conservation in the Sierra Nevada, CA. California Forest Management Task Force: Sierra and Eastside Regional Prioritization Group. 12 June.

**Jones, G.M.** (2020) An agenda for wildlife research at the science-management interface in the southwestern US. US Forest Service - Rocky Mountain Research Station. 9 March, Albuquerque, NM.

**Jones, G.M.,** C.M. Wood, M.Z. Peery, R.J. Gutierrez, S.A. Whitmore, W.J. Berigan (2017) Ongoing California spotted owl research in the Sierra Nevada. Northern Spotted Owl South Coordination Meeting. 16 February, Mendocino, CA.

**Jones, G.M.,** R.J. Gutiérrez, D.J. Tempel, S.A. Whitmore, W.J. Berigan, M.Z. Peery (2017) Effects of large, severe fire on California spotted owls. USFS and USFWS Regional Headquarters. 18 January, Albuquerque, NM.

**Jones, G.M.,** R.J. Gutiérrez, D.J. Tempel, S.A. Whitmore, W.J. Berigan, M.Z. Peery (2015) Effect of the King Fire on California spotted owl demography and foraging. US Forest Service Region 5. Vallejo, CA.

**Jones, G.M.**, R.J. Gutiérrez, D.J. Tempel, S.A. Whitmore, W.J. Berigan, M.Z. Peery (2015) Megafires and spotted owls: effects of the 2014 King fire. US Fish and Wildlife Service. Sacramento, CA.

**Jones, G.M.**, R.J. Gutiérrez, D.J. Tempel, S.A. Whitmore, W.J. Berigan, M.Z. Peery (2015) Demographic and movement responses by California spotted owls to the 2014 King fire. Sierra Pacific Industries. Redding, CA.

*INVITED  
OUTREACH  
TALKS*

**Jones, G.M.** (2022) A burning issue: spotted owls and wildfire. Ventura Audubon Society. 11 January. Ventura, CA.

**Jones, G.M.** (2021) Spotted owls and fire: the burning questions. Santa Fe Fireshed Coalition – “Wildfire Wednesday Live”. 17 February. Santa Fe, NM.

**Jones, G.M.** (2018) Seeing ghosts: spooky stories about spotted owls and the things that haunt them. Madison Audubon Society. 16 October, Madison, WI.

*CONTRIBUTED  
CONFERENCE  
PRESENTATIONS*

**Jones, G.M.**, M.W. Tingley (2022). Pyrodiversity: what is it, and how could it help guide wildlife conservation in the West? The Wildlife Society-Western Section Annual Meeting. 9 February, Reno, NV.

**Jones, G.M.**, H.A. Kramer, W.J. Berigan, S.A. Whitmore, R.J. Gutiérrez, M.Z. Peery (2022) Persistent effects of the 2014 King megafire on spotted owls. The Wildlife Society-Western Section Annual Meeting. 9 February, Reno, NV.

**Jones, G.M.**, A.J. Shirk, Z. Yang, R.J. Davis, J.L. Ganey, R.J. Gutiérrez, S.P. Healey, S.J. Hedwall, S.J. Hoagland, R. Maes, K. Malcolm, K.S. McKelvey, J.S. Sanderlin, M.K. Schwartz, M.E. Seamans, H.Y. Wan, S.A. Cushman (2021) Drivers and dynamics of Mexican spotted owl habitat from 1986-2020 in the southwestern United States. Raptor Research Foundation Annual Conference. October 8-14. Boise, ID.

**Jones, G.M.**, H.A. Kramer, R.J. Gutiérrez, M.Z. Peery (2020) Is severe fire good or bad for spotted owls? North American Ornithological Conference VII. 15 August, San Juan, Puerto Rico.

**Jones, G.M.**, A.R. Keyser, A.L. Westerling, W.J. Baldwin, J.J. Keane, S.C. Sawyer, J.D.J. Clare, R.J. Gutiérrez, M.Z. Peery (2020) Fire, forest restoration, and spotted owl conservation under climate change. The Wildlife Society-Western Section Annual Meeting. 4 February, Redding, CA.

**Jones, G.M.**, H.A. Kramer, S.A. Whitmore, W.J. Berigan, R. Kelsey, R.J. Gutiérrez, M.Z. Peery (2020) Is severe fire good or bad for spotted owls? The Wildlife Society-Western Section Annual Meeting. 4 February, Redding, CA.

**Jones, G.M.**, A.R. Keyser, A.L. Westerling, W.J. Baldwin, J.J. Keane, S.C. Sawyer, J.D.J. Clare, R.J. Gutiérrez, M.Z. Peery (2019) Bioregional scale forest restoration limits megafires and supports rare species conservation in a changing climate. The Wildlife Society Annual Meeting. 3 October, Reno, NV.

**Jones, G.M.**, W.J. Berigan, S.A. Whitmore, R.J. Gutiérrez, M.Z. Peery (2018) Wide-ranging individuals lead to false positive detections and upwardly-biased occupancy. The Wildlife Society Annual Meeting. 8 October, Cleveland, OH.  
*\*awarded 3rd place among student oral presentations*

**Jones, G.M.**, J.J. Keane, R.J. Gutiérrez, M.Z. Peery (2018) Declining old-forest species as a legacy of large trees lost. American Ornithological Society, Annual Meeting. 11 April, Tucson, AZ. *\*awarded the Robert B. Berry Award for best oral presentation*

**Jones, G.M.**, R.J. Gutiérrez, D.J. Tempel, S.A. Whitmore, W.J. Berigan, M.Z. Peery (2017) Movement, population impacts, and emerging mega-disturbances: burning questions about spotted owls and fire. British Ornithologists Union, Annual Meeting. 29 March, Coventry, UK. *\*awarded best talk by Early Career Researcher*

**Jones, G.M.**, R.J. Gutiérrez, D.J. Tempel, S.A. Whitmore, W.J. Berigan, M.Z. Peery (2016) Megafires: an emerging threat to old-forest species. 3<sup>rd</sup> North American Congress for Conservation Biology. 19 July, Madison, WI. *\*finalist, best student talk*

**Jones, G.M.**, B. Zuckerberg, A.T. Paulios (2012) The early bird gets earlier: changes in migration phenology. Wisconsin Chapter of the Wildlife Society, Annual Meeting. 29 February, Rothschild, WI.

**Jones, G.M.**, B. Zuckerberg, A.T. Paulios (2011) The early bird gets earlier: changes in migration timing of the American Robin (*Turdus migratorius*) in the state of Wisconsin. The Wildlife Society Annual Meeting. 8 November, Kona, HI.

POSTER  
PRESENTATIONS

**Jones, G.M.**, R.J. Gutiérrez, B. Zuckerberg, M.Z. Peery (2015) Climate change, habitat loss, and the future of spotted owls in the central Sierra Nevada, California. UW-Madison Climate Change Symposium.

**Jones, G.M.**, R.J. Gutiérrez, B. Zuckerberg, M.Z. Peery (2015) Developing climate change adaptation strategies for spotted owls using dynamic occupancy models. Wisconsin Ecology Spring Symposium. 11 March, Madison, WI.

**Jones, G.M.**, L.R. Moyer-Horner (2008) Temperature constrains activity of the American pika in Glacier National Park, MT. Undergraduate Research Symposium, University of Wisconsin-Madison. Madison, WI.

TECHNICAL  
REPORTS

Peery, M.Z., **G.M. Jones** (2019) Using population viability analyses to assess the potential effects of Washington DNR forest management alternatives on marbled murrelets. Report to the Washington DNR and US Fish & Wildlife Service. *Marbled Murrelet Long-Term Conservation Strategy*, [FEIS: Appendix C](#).

**Jones, G.M.**, M.Z. Peery (2019) Bioregional-scale forest restoration limits megafires and supports rare species conservation in a changing climate. Final Report to the USDA Forest Service and US Fish and Wildlife Service.

**Jones, G.M.**, M.Z. Peery (2019) Impacts of fire on California spotted owls. Final Report to The Nature Conservancy.

**Jones, G.M.**, M.Z. Peery (2018) Assessing impacts of wildfire on California spotted owls. Final Report to the California Department of Fish and Wildlife.

Peery, M.Z., **G.M. Jones** (2018) Using population viability analyses to assess the potential effects of Washington DNR forest management alternatives on marbled murrelets. Report to the Washington DNR and US Fish & Wildlife Service. *Marbled Murrelet Long-Term Conservation Strategy*, [RDEIS: Appendix C](#).

Peery, M.Z., **G.M. Jones** (2016) Using population viability analyses to assess the potential effects of Washington DNR forest management alternatives on marbled murrelets. Report to the Washington DNR and US Fish & Wildlife Service. *Marbled Murrelet Long-Term Conservation Strategy*, [DEIS: Appendix C](#).

## TEACHING

- |      |          |  |
|------|----------|--|
| 2023 | FWE 875  | <b>Co-Instructor</b> , Demographic Methods in Wildlife Conservation<br>University of Wisconsin-Madison   |
| 2021 | FWE 875  | <b>Co-Instructor</b> , Demographic Methods in Wildlife Conservation<br>University of Wisconsin-Madison   |
| 2020 | UFBI     | <b>Co-Instructor</b> , Multi-species Occupancy Modeling<br>Biodiversity Institute, University of Florida |
| 2019 | FWE 875  | <b>Co-Instructor</b> , Demographic Methods in Wildlife Conservation<br>University of Wisconsin-Madison   |
| 2015 | STAT 572 | <b>Tutor</b> , Statistical Methods for Bioscience II<br>University of Wisconsin-Madison                  |
| 2013 | iBIO 360 | <b>Teaching Assistant</b> , Extinction of Species<br>University of Wisconsin-Madison                     |

## MENTORING

**Postdoctoral Researchers**

Joshua Goldberg, Rocky Mountain Research Station, 2022-present

Marilyn Wright, Rocky Mountain Research Station, 2022-present

Jack Shutt, Rocky Mountain Research Station, 2022

**Research Fellows/Associates**

Ronan Hart, University of New Mexico, 2023-present

Jessalyn Ayars, University of New Mexico, 2021-present

Nick Kryshak, University of New Mexico, 2022-present

Ceeanna Zulla, University of New Mexico, 2022-present

**Visiting scholars**

Anna Nordseth, Duke University, 2022-present

**Undergraduate Students (Independent research advisees)**

Nicole Pietrunti, University of Wisconsin, 2015-2019

Brendan Hobart, University of Wisconsin, 2014-2015

**Undergraduate Students (Research Assistants – lab and field)**

Ceeanna Zulla, University of Wisconsin, 2016-2017

Danny Hofstadter, University of Wisconsin, 2015-2017

Tim Demers, University of Wisconsin, 2015-2017

Carly Vinkavich, University of Wisconsin, 2014-2015

Nicholas Kryshak, University of Wisconsin, 2013-2017

Alyssa Davidge, University of Wisconsin, 2016-2017

Tori Thorpe, University of Wisconsin, 2016

Cody Lane, University of Wisconsin, 2016-2017

Emma Tomaczewski, University of Wisconsin, 2016-2017

SELECTED MEDIA

[Counteracting wildfire misinformation](#): Blue Forest Science Corner

[Scientists warning on wildfire misinformation](#): CBC Radio - Daybreak South

[Forest management in spotted owl habitat pays off](#): The Wildlife Society

[Fire Ecology \(WILDFIRES\)](#): *Ologies* with Alie Ward

[Is severe fire good or bad for spotted owls?](#) RMRS Science Spotlight

[As wildfires continue in western United States, biologists fear for vulnerable species](#): Science Magazine

[Recent 'megafires' imperil even fire-loving forest birds](#): Audubon

[The Australian bushfire crisis](#): WORT-FM Community Radio (Madison, WI)

[Counting the same bird more than once?](#) The Wildlife Society

[Wildfire, Forest Management, and Climate](#): ESA *Special Collection*

[Of owls and salamanders](#): American Forests Magazine

[Logging legacy still affects spotted owls](#): The Wildlife Professional *Science in Short*

[Decades-past logging still threatens spotted owls in national forests](#): UW News  
[Researchers watch spotted owl numbers drop in California](#): Jefferson Public Radio  
[The burning questions about spotted owls and fire](#): Sierra Magazine  
[Megafires drive out spotted owls](#): The Wildlife Society  
[Megafires could threaten California spotted owls](#): Capitol Public Radio

## SERVICE

## Editorships

2022-present, Associate Editor, *Frontiers in Ecology and the Environment*  
 2019-2022, Associate Editor, *Journal of Wildlife Management*  
 2020-present, Associate Editor, *Fire Ecology*

## Ad-hoc journal peer review

*The Auk: Ornithological Advances, Biological Conservation, The Condor: Ornithological Applications, Current Biology, Diversity and Distributions, Ecological Applications, Ecology, Ecology and Evolution, Ecosphere, Endangered Species Research, Environmental Research Letters, Fire, Fire Ecology, Forest Ecology and Management, Frontiers in Ecology and the Environment, Global Change Biology, Integrative Organismal Biology, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Field Ornithology, Journal of Raptor Research, Journal of Wildlife Management, Landscape Ecology, Methods in Ecology and Evolution, Oecologia, Wildlife Research, Wildlife Society Bulletin*

## External PhD examiner

2021 Benjamin Wagner, University of Melbourne  
 2022 Leanne Greenwood, Charles Sturt University

## Other peer review

2020 USGS - Internal Science Review  
 2018 The Nature Conservancy – White Paper science review

## Granting Agencies External Review

2016 Graduate Women in Science Fellowship

## Conference Organization and Service

2019-2020 Abstract Reviewer, North Am. Congress for Cons. Biology

## University of Wisconsin-Madison

2015-2016 Departmental Seminar Series Selection Committee  
 2013-2016 Departmental Enhancement Committee  
 2013-2016 Graduate Student Representative

## Professional Societies

2022-2023 Publication Awards Committee, The Wildlife Society



2020-2021      Social Communications Policy Committee, AOS  
2018-2019      Publication Awards Committee, The Wildlife Society

*PROFESSIONAL  
MEMBERSHIP*

American Ornithological Society (AOS)  
Ecological Society of America (ESA)  
The Wildlife Society (TWS)