

Crystal A. Kolden

Director, UC Merced Wildfire Resilience Center

Associate Professor, Management of Complex Systems, School of Engineering

University of California, Merced, 5200 N Lake Road, Merced, CA 95343 ♦(775) 287-9211

ckolden@ucmerced.edu ♦ <http://www.pyrogeographer.com>

SUMMARY

I am a fire scientist with over 25 years of experience in wildfire science, education, and outreach.

EDUCATION

Ph.D., Geography, Clark University, Worcester, MA, 2010

M.S., Geography, University of Nevada, Reno, 2005

A.B. *cum laude*, History, Cornell University, Ithaca, NY, 1999

PROFESSIONAL APPOINTMENTS

2025 – present	UC Merced Agricultural Extension Station faculty member
2024 – present	Director, UC Merced Wildfire Resilience Center
2020 – present	Associate Professor, Management of Complex Systems Department, Univ. of California, Merced
2017 – 2020	Associate Professor, College of Natural Resources, Univ. Idaho
2010 – 2017	Assistant Professor of Geography, Univ. Idaho
2007 – 2010	Landscape Ecologist, US Geological Survey, Anchorage, AK
2004 – 2012	Affiliate Research Scientist, Desert Research Institute, Reno, NV
2003 – 2006	Fire Ecologist, USDA Forest Service, Washington Office

CV SECTIONS:

PUBLICATIONS	2
BOOK CHAPTERS	10
REPORTS AND WHITE PAPERS	11
AWARDS AND HONORS	12
GRANTS	13
INVITED KEYNOTE AND PLENARY PRESENTATIONS	15
INVITED LECTURES/ PANELS/ CONFERENCE PRESENTATIONS	16
CONFERENCES AND WORKSHOPS ORGANIZED	17
OUTREACH ACTIVITIES	18
TEACHING AND ADVISING	19
MEDIA	21
SERVICE	23

PUBLICATIONS

(# indicates equal lead author contribution, * indicates trainee)

Refereed Publications (119 refereed articles, *h-index*: 56, *i10-index*: 106)

14,273 citations as of April 10, 2026

119. Lambrou, N.*, C.A. Kolden, C. Zhang, A. Loukaitou-Sideris. 2026. Disaster Recovery for Whom? Insurance, Zoning, and the Exclusionary Geographies of Wildfire Resilience, *in press at Environment and Planning D: Society and Space*, doi.org/10.1177/02637758261435009
118. Cunningham, C.X., J.T. Abatzoglou, C.A. Kolden, G.W. Williamson, M. Steuer, D.M.J.S. Bowman. 2025. Climate-linked escalation of societally disastrous wildfires. *Science*, 390(6768), 53-58. doi.org/10.1126/science.adr5127
117. Seyd, S., J.T. Abatzoglou, M.W. Jones, C.A. Kolden, G. Filippelli, M. Hurteau, A. AghaKouchak, C. Luce, C. Miao, M.Sadegh. 2025. Increasing global human exposure to wildland fires despite declining burned area. *Science*, 389(6762), 826-829. doi.org/10.1126/science.adu6408
116. Kelley, D. I., Burton, C., Di Giuseppe, F., Jones, M. W., Barbosa, M. L., Brambleby, E., and 55 co-authors, including C.A. Kolden (2025). State of wildfires 2024–2025. *Earth System Science Data*, 17(10), 5377-5488. doi.org/10.5194/essd-17-5377-2025
115. Lambrou, N.*, C.A. Kolden, C. Zhang, A. Loukaitou-Sideris. 2025. Housing and Economic Recovery as Interdependent Pathways in the Wake of Wildfires. *International Journal of Disaster Risk Reduction*, 105820. doi.org/10.1016/j.ijdr.2025.105820
114. Hsu, A, M.W. Jones and 43 co-authors, including C.A. Kolden. 2025. A global assemblage of regional prescribed burn records — GlobalRx. *Scientific Data* 12(1), 1083. doi.org/10.1038/s41597-025-04941-w
113. Abatzoglou, J.T., C.A. Kolden, A. Cullen, M. Sadegh, E. Williams, M. Turco, and M.W. Jones. 2025. Climate change has increased the odds of extreme regional forest fire years globally. *Nature Communications*, 16(1), p.6390. doi.org/10.1038/s41467-025-61608-1
112. Bryant, K., L. Lynch, C.A. Kolden, J. Stenzel, C. Hanson, C. Still, J. Mathias, B. Light, C. Moon, T. Hudiburg. 2025. Delays in peak physiological activity may reduce resource acquisition as trees recover from wildfire. *Ecosphere*, 16(7), e70325. doi.org/10.1002/ecs2.70325
111. Zhang, C.*, N. Lambrou, C.A. Kolden, and A. Loukaitou-Sideris. 2025. Identifying Misalignments in Wildfire Management: Opportunities for Plan Integration and Stakeholder Collaboration. *Journal of Environmental Management* 390, 126274. doi.org/10.1016/j.jenvman.2025.126274
110. Kolden, C.A., J.T. Abatzoglou, M.W. Jones, & P. Jain. 2025. Wildfires in 2024. *Nature Reviews Earth & Environment*, 6(4), 237-239. doi.org/10.1038/s43017-025-00663-0
109. Jorge, A.L., J.T. Abatzoglou, E. Fleishman, E.L. Williams, D.E. Rupp, J.S. Jenkins, M. Sadegh, C.A. Kolden, and K.C. Short. 2025. COVID-19 fueled an elevated number of human-caused ignitions in the western United States during the 2020 wildfire season. *Earth's Future*, 13(4), p.e2024EF005744. doi.org/10.1029/2024EF005744
108. Little, K., et al (including C.A. Kolden). 2025. Priority research directions for wildfire science: views from a historically fire-prone and an emerging fire-prone country. *Philosophical Transactions B* 380.1924 (2025): 20240001. doi.org/10.1098/rstb.2024.0001
107. Swain, D.L., J.T. Abatzoglou, C.M. Albano, M.I. Brunner, N.S. Diffenbaugh, C.A. Kolden, A.F. Prein, D. Singh, C.B. Skinner, T.W. Swetnam, and D. Touma. 2025. Increasing

- Hydroclimatic Whiplash Can Amplify Wildfire Risk in a Warming Climate. *Global Change Biology* 31:e70075, doi.org/10.1111/gcb.70075.
106. Zhang, C.*, N. Lambrou, **C.A. Kolden**, and A. Loukaitou-Sideris. 2025. Addressing Wildfire Resilience through Comprehensive County-Level Plan Effectiveness in California. *International Journal of Disaster Risk Reduction*, p.105230. <https://doi.org/10.1016/j.ijdr.2025.105230>
105. Lambrou, N.*, **C.A. Kolden**, and A. Loukaitou-Sideris. 2025. Disaster Recovery Gentrification in Post-Wildfire Landscapes: The Case of Paradise, CA. *International Journal of Disaster Risk Reduction*, p.105235. <https://doi.org/10.1016/j.ijdr.2025.105235>
104. Balch, J.K., V. Iglesias, A.L. Mahood, M.C. Cook, C. Amaral, A. DeCastro, S. Leyk, T.L. McIntosh, R.C. Nagy, L. St. Denis, T. Tuff, E. Verleye, A.P. Williams, and **C.A. Kolden**. 2024. The fastest-growing and most destructive fires in the US (2001 to 2020). *Science*, 386(6720), pp.425-431. DOI: 10.1126/science.adk5737
103. Jones, M.W., S. Veraverbeke, N. Andela, S.H. Doerr, **C.A. Kolden**, G. Mataveli, M.L. Pettinari, C. Le Quéré, T.M. Rosan, T.M., G.R. van der Werf, and D. van Wees. 2024. Global rise in forest fire emissions linked to climate change in the extratropics. *Science*, 386(6719), p.ead15889. <https://doi.org/10.1126/science.adl5889>
102. Jones, M.W., and 44 authors, including **C.A. Kolden**, 2024. State of Wildfires 2023–2024. *Earth System Science Data*, 16(8), pp.3601-3685. <https://doi.org/10.5194/essd-16-3601-2024>
- 101. Kolden, C.A.**, J.T. Abatzoglou, M.W. Jones, and P. Jain. 2024. Wildfires in 2023. *Nature Reviews Earth & Environment*, pp.1-3. doi.org/10.1038/s43017-024-00544-y
100. Brown, M., J. Jenkins, and **C.A. Kolden**. 2024. Decreased air quality shows minimal influence on peak summer attendance at forested Pacific West national parks. *Journal of Environmental Management*, 358, p.120702. doi.org/10.1016/j.jenvman.2024.120702
99. Hudiburg, T.W., J.M. Mathias, K.J. Bartowitz, D. Berardi, K.N. Bryant, E. Graham, **C.A. Kolden**, R. Betts, and L. Lynch. 2023. Terrestrial carbon dynamics in an era of increasing wildfire. *Nature Climate Change*, 13(12), pp.1306-1316. doi.org/10.1038/s41558-023-01881-4
98. Swain, D.L., J.T. Abatzoglou, **C.A. Kolden**, K. Shive, D.A. Kalashnikov, D. Singh, and E. Smith, E. 2023. Climate change is narrowing and shifting prescribed fire windows in western United States. *Nature Communications Earth & Environment*, 4(1), p.340. doi.org/10.1038/s43247-023-00993-1
97. Stenzel J.E.*, **C.A. Kolden**, P.C. Buotte, K.J. Bartowitz, E.W. Walsh, and T.W. Hudiburg. 2023. Vulnerability of northern Rocky Mountain forests under future drought, fire, and harvest. *Frontiers in Forests and Global Change*, 6:1146033. doi: 10.3389/ffgc.2023.1146033
96. Lambrou, N.*, **C.A. Kolden**, A. Loukaitou-Sideris, E. Anjum, and C. Acey. 2023. Social drivers of vulnerability to wildfire disasters: A review of the literature. *Landscape and Urban Planning*, 237: 104797. <https://doi.org/10.1016/j.landurbplan.2023.104797>
95. Abatzoglou, J.T., **C.A. Kolden**, A.P. Williams, M. Sadegh, J.K. Balch, and A. Hall. 2023. Downslope Wind-Driven Fires in the Western United States. *Earth's Future*, 11(5), p.e2022EF003471.
94. Ren, J., Hanan, E.J., J.A. Hicke, **C.A. Kolden**, J.T. Abatzoglou, C.N.L. Tague, R.R. Bart, M.C. Kennedy, M. Liu, and J.C. Adam. 2023. Bark beetle effects on fire regimes depend on

- underlying fuel modifications in semiarid systems. *Journal of Advances in Modeling Earth Systems*, 15(1), p.e2022MS003073.
93. Partelli-Feltrin, R., A.M.S. Smith, H.D. Adams, R.A. Thompson, **C.A. Kolden**, K.M. Yedinak, D.M. Johnson. 2023. Death from hunger or thirst? Phloem death, rather than xylem hydraulic failure, as a driver of fire-induced conifer mortality. *New Phytologist*. doi.org/10.1111/nph.18454
 92. Bryant, K.N., J. Stenzel, J.M. Mathias, H. Kwon, **C.A. Kolden**, L.M. Lynch, and T.W. Hudiburg. 2022. Boosts in leaf-level photosynthetic capacity aid *Pinus ponderosa* recovery from wildfire. *Environmental Research Letters*. doi.org/10.1088/1748-9326/ac9cf2
 91. Xu, Q., A.L. Westerling, A. Notohamiprodjo, C. Wiedinmyer, J.J. Picotte, S.A. Parks, M.D. Hurteau, M.E. Marlier, **C.A. Kolden**, J.A. Sam, J.W. Baldwin. 2022. Wildfire burn severity and emissions inventory: an example implementation over California. *Environmental Research Letters*, 17(8), p.085008. https://doi.org/10.1088/1748-9326/ac80d0
 90. Jones, M.W., J.T. Abatzoglou, S. Veraverbeke, N. Andela, G. Lasslop, M. Forkel, A.J.P. Smith, C. Burton, R.A. Betts, G.R. van der Werf, S. Sitch, J.G. Canadell, C. Santin, **C.A. Kolden**, S.H. Doerr, C. Le Quere. 2022. Global and regional trends and drivers of fire under climate change. *Reviews of Geophysics*, p.e2020RG000726. doi.org/10.1029/2020RG000726
 89. Haghani, M., E. Kuligowski, A. Rajabifard, and **C.A. Kolden**. 2022. The state of wildfire and bushfire science: Temporal trends, research divisions and knowledge gaps. *Safety Science*, 153, p.105797. doi.org/10.1016/j.ssci.2022.105797
 88. Bartowitz, K.J., E.S. Walsh, J.E. Stenzel, **C.A. Kolden**, T. Hudiburg. 2022. Forest carbon emission sources are not equal: putting fire, harvest, and fossil fuel emissions in context. *Frontiers in Forests and Global Change*, 5, p.867112. https://doi.org/10.3389/ffgc.2022.867112
 87. Bowman, D.M., **C.A. Kolden**, and G.J. Williamson. 2022. Bushfires in Tasmania, Australia: An Introduction. *Fire*, 5(2), p.33. doi.org/10.3390/fire5020033
 86. Ren, J., E.J. Hanan, J.T. Abatzoglou, **C.A. Kolden**, C.N.L. Tague, M.C. Kennedy, M. Liu, and J.C. Adam. 2022. Projecting Future Fire Regimes in a Semiarid Watershed of the Inland Northwestern United States: Interactions Among Climate Change, Vegetation Productivity, and Fuel Dynamics. *Earth's Future*, 10(3). doi.org/10.1029/2021EF002518
 85. Iglesias, V., N. Stavros, J.K. Balch, K. Barrett, J. Cobian-Iñiguez, C. Hester, **C.A. Kolden**, S. Leyk, R.C. Nagy, C. Reid, and C. Wiedinmyer. 2022. Fires that matter: reconceptualizing fire risk to include interactions between humans and the natural environment. *Environmental Research Letters*. https://doi.org/10.1088/1748-9326/ac5c0c
 84. Abatzoglou, J.T., D.S. Battisti, A.P. Williams, W.D. Hanson, B.J. Harvey, and **C.A. Kolden**. 2021. Continued increases in western US forest fire despite growing fuel constraints. *Nature Communications Earth & Environment*, 2(1), pp.1-8. doi.org/10.1038/s43247-021-00299-0
 83. Picotte, J*, C.A. Cansler, **C.A. Kolden**, J.A. Lutz, C. Key, N. Benson, and K.M. Robertson. 2021. Determination of burn severity models ranging from regional to national scales for the conterminous United States. *Remote Sensing of Environment*. https://doi.org/10.1016/j.rse.2021.112569
 82. Ren, J., J. Adam, J.A. Hicke, E. Hanan, C. Tague, M. Liu, **C.A. Kolden**, and J.T. Abatzoglou. 2021. How does water yield respond to mountain pine beetle infestation in a semiarid forest? *Hydrology and Earth System Sciences*, 25, 4681–4699, https://doi.org/10.5194/hess-25-4681-2021.

81. Prichard, S., P. Hessburg, R.K. Hagmann, N. Povak, S. Dobrowski, M. Hurteau, V. Kane, R. Keane, L. Kobziar, **C.A. Kolden**, M. North, S. Parks, H. Safford, J. Stevens, L. Yocom, D. Churchill, R. Gray, D. Huffman, F. Lake, P. Khatri-Chhetri, Pratima. 2021. Adapting western North American forests to climate change and wildfires: ten common questions. *Ecological Applications*, p.e02433.
80. Jansen, V.S.*, **C.A. Kolden**, H.J. Schmalz, J.W. Karl and R.V. Taylor. 2021. Using Satellite-Based Vegetation Data for Short-Term Grazing Monitoring to Inform Adaptive Management. *Rangeland Ecology & Management*, 76, 30-42.
<https://doi.org/10.1016/j.rama.2021.01.006>
79. Hanan, E.J., J. Ren, C.L. Tague, **C.A. Kolden**, J.T. Abatzoglou, R.R. Bart, M.C. Kennedy, M. Liu, M. and J.C. Adam. 2021. How climate change and fire exclusion drive wildfire regimes at actionable scales. *Environmental Research Letters* 16, 024051.
<https://doi.org/10.1088/1748-9326/abd78e>
78. Partelli Feltrin, R., A.M.S. Smith, H.C. Adams, **C.A. Kolden**, and D. Johnson. 2021. Short- and long-term effects of fire on stem hydraulics in *Pinus ponderosa* saplings. *Plant, Cell, & Environment*. <https://doi.org/10.1111/pce.13881>
77. Abatzoglou, J.T., C.S. Juang, A.P. Williams, **C.A. Kolden**, and A.L. Westerling. 2021. Increasing synchronous fire danger in forests of the western United States. *Geophysical Research Letters*, 48(2), e2020GL091377. <https://doi.org/10.1029/2020GL091377>
76. Partelli Feltrin, R., D. Johnson, A.M. Sparks, H.C. Adams, **C.A. Kolden**, A.S. Nelson, and A.M.S. Smith. 2020. Drought increases vulnerability of *Pinus ponderosa* saplings to fire-induced mortality. *Fire* 3, 56.
- 75. Kolden, C. 2020.** Wildfires: count lives and homes, not hectares burnt. *Nature*, 586(7827), 9. ^Invited.
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73. Bowman, D.M.J.S., **C.A. Kolden**, J.T. Abatzoglou, F.H. Johnston, G.R. van der Werf, and M. Flanagan. 2020. Vegetation fires in the Anthropocene. *Nature Reviews Earth and Environment* 1, 500-515. doi.org/10.1038/s43017-020-0085-3
72. Cansler, C.A., Hood, S.M., Varner, J.M., van Mantgem, P.J., Agne, M.C., Andrus, R.A., Ayres, M.P., Ayres, B.D., Bakker, J.D., Battaglia, M.A., Bentz, B.J., ... **Kolden, C.A.** ... et al. 2020. The Fire and tree Mortality Database, for empirical modeling of individual tree mortality after fire. *Scientific data*, 7(1), pp.1-14.
71. Abatzoglou, J.T., C. Smith, D. Swain, T. Ptak, and **C.A. Kolden**. 2020. Population exposure to pre-emptive de-energization aimed at averting wildfires in Northern California. *Environmental Research Letters*. doi.org/10.1088/1748-9326/aba135/meta
70. Krawchuck, M.A., G. Meigs, J. Cartwright, J. Coop, R. Davis, A. Holz, **C.A. Kolden**, A.H.J. Meddens. 2020. Disturbance refugia within mosaics of forest fire, drought, and insect outbreaks. *Frontiers in Ecology and the Environment*. 18(5), pp.235-244.
69. Goss, M., D.L. Swain, A. Sarhadi, **C.A. Kolden**, J.T. Abatzoglou, A.P. Williams, N.S. Diffenbaugh. 2020. Climate change is increasing the risk of extreme autumn wildfire conditions across California. *Environmental Research Letters*. <https://doi.org/10.1088/1748-9326/ab83a7>

68. Jansen, V.S.*, **C.A. Kolden**, H.E. Greaves, J.U. Eitel. 2019. Lidar provides novel insights into the effect of pixel size and grazing intensity on measures of spatial heterogeneity in a native bunchgrass ecosystem. *Remote Sensing of Environment*. <https://doi.org/10.1016/j.rse.2019.111432>
67. Stenzel, J., K. Bartowitz, M. Hartmann, J.A. Lutz, **C.A. Kolden**, A.M.S. Smith, B. Law, M. Swanson, A. Larson, W. Parton, T. Hudiburg. 2019. Fixing a snag in estimating carbon emissions from wildfire. *Global Change Biology*. <https://doi.org/10.1111/gcb.14716>
66. Martinez, A.J.*, A.J.H. Meddens, **C.A. Kolden**, A.T. Hudak. 2019. An assessment of fire refugia importance criteria ranked by land managers. *Fire*, 2, 27. <https://doi.org/10.3390/fire2020027>
65. McWethy, D.B., T. Schoennagel, P.E. Higuera, M. Krawchuk, B.J. Harvey, E.C. Metcalf, C. Schultz, C. Miller, A.L. Metcalf, B. Buma, A. Virapongse, J.C. Kulig, R.C. Stedman, Z. Ratajczak, C.R. Nelson, **C.A. Kolden**. 2019. Rethinking resilience to wildfire. *Nature Sustainability*. <https://doi.org/10.1038/s41893-019-0353-8>
- 64. Kolden, C.A.** 2019. We're not doing enough prescribed fire to reduce wildfire risk in the western US. *Fire*, 2, 30. <https://doi.org/10.3390/fire2020030>
63. Steady, W.D., R.P. Feltrin, D.M. Johnson, A.M. Sparks, **C.A. Kolden**, A.F. Talhelm, J.A. Lutz, L. Boschetti, A.T. Hudak, A.S. Nelson, A.M.S. Smith. 2019. The Survival of Pinus ponderosa Saplings Subjected to Increasing Levels of Fire Behavior and Impacts on Post-Fire Growth. *Fire* 2, 23. <https://doi.org/10.3390/fire2020023>
62. Haugo, R.D., B.S. Kellogg, C.A. Cansler, **C.A. Kolden**, K.B. Kemp, J. Robertson, K.L. Metlen, N.M. Vaillant, C.M. Restaino. 2019. The Missing Fire: Quantifying human exclusion of wildfire in Pacific Northwest forests, USA. *Ecosphere*, 10, e02702. doi.org/10.1002/ecs2.2702
61. Martinez, A.J.*, A.J.H. Meddens, **C.A. Kolden**, E.K. Strand, A.T. Hudak. 2019. Characterizing persistent unburned islands within the Inland Northwest. *Fire Ecology* 15: 20. <https://fireecology.springeropen.com/articles/10.1186/s42408-019-0036-x>
- 60. Kolden, C.A.** and C. Henson. 2019. A Socio-Ecological Approach to Mitigating Wildfire Vulnerability in the Wildland Urban Interface: A Case Study from the 2017 Thomas Fire. *Fire*, 2, 9. <https://doi.org/10.3390/fire2010009>
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58. Blomdahl, E., **C.A. Kolden**, A.H.J. Meddens, and J.A. Lutz. 2019. The importance of small fire refugia in the central Sierra Nevada, California, USA. *Forest Ecology and Management*. <https://doi.org/10.1016/j.foreco.2018.10.038>
57. Bowman, D.M.J.S., A. Moreira-Muñoz, **C.A. Kolden**, R.O. Chávez, A.A. Muñoz, F. Salinas, A. González-Reyes, R. Rocco, F. de la Barrera, G.J. Williamson, F.H. Johnston, N. Borchers, J.T. Abatzoglou. 2019. Drought and land use caused globally unprecedented extreme fires in Mediterranean Chile. *Ambio*. <https://doi.org/10.1007/s13280-018-1084-1>
56. Smith, A.M.S.; **C.A. Kolden**, D.M.J.S. Bowman. 2018. Biomimicry can help humans to co-exist sustainably with fire. *Nature Ecology & Evolution*. <https://doi.org/10.1038/s41559-018-0712-2>
55. Smith, A.M.S., **C.A. Kolden**, S.J. Prichard, R.W. Gray, P.F. Hessburg, J.K. Balch. 2018. Recognizing Women Leaders in Fire Science. *Fire* 1, 30. <https://doi.org/10.3390/fire1020030>

54. Meddens, A.H.J.* , **C.A. Kolden**, J.A. Lutz, A.M.S. Smith, C.A. Cansler, J.T. Abatzoglou, G.W. Meigs, W.M. Downing, M.A. Krawchuk. 2018. Fire refugia: What are they and why do they matter for global change? *BioScience*. <https://doi.org/10.1093/biosci/biy103>
53. Abatzoglou, J.T., A.P. Williams, L. Boschetti, M. Zubkova, **C.A. Kolden**. 2018. Global patterns of interannual climate-fire relationships. *Global Change Biology*. <https://doi.org/10.1111/gcb.14405>
52. Jansen, V.S.* , **C.A. Kolden**, H. Schmalz. 2018. The development of near real-time biomass and cover estimates for adaptive rangeland management using Landsat 7 and Landsat 8 surface reflectance products. *Remote Sensing*. <http://www.mdpi.com/2072-4292/10/7/1057/htm>
- 51. Kolden, C.A.**, and J.T. Abatzoglou. 2018. Spatial distribution of wildfires ignited under katabatic- versus non-katabatic winds in Mediterranean southern California USA. *Fire*. 1(2), 19; <https://doi.org/10.3390/fire1020019>
50. Sparks, A.M.* , A.F. Talhelm, R.P. Feltrin, A.M.S. Smith, D.M. Johnson, **C.A. Kolden**, L. Boschetti. 2018. An experimental assessment of the impact of drought and fire on western larch mortality, injury, and recovery. *International Journal of Wildland Fire*. doi.org/10.1071/WF18044
49. Abatzoglou, J.T., J.K. Balch, B.A. Bradley, and **C.A. Kolden**. 2018. Human-related ignitions concurrent with high winds promote large wildfires across the US. *International Journal of Wildland Fire*. doi.org/10.1071/WF17149
48. McCarley, T.R.* , A.M.S. Smith, **C.A. Kolden**, and J. Kreitler. 2018. Evaluating the mid-infrared bi-spectral index for improved assessment of low-severity fire effects in a conifer forest. *International Journal of Wildland Fire*. doi.org/10.1071/WF17137
47. Sparks, A.M.* , **Kolden, C.A.**, Smith, A.M., Boschetti, L., Johnson, D.M. and Cochrane, M.A., 2018. Fire intensity impacts on post-fire temperate coniferous forest net primary productivity. *Biogeosciences*, 15(4), p.1173. <https://doi.org/10.5194/bg-15-1173-2018>
46. Hanan, E., C. Tague, J. Choate, M. Liu, **C.A. Kolden**, and J.C. Adam. 2018. Accounting for disturbance history in models: using remote sensing to constrain carbon and nitrogen pool spin-up. *Ecological Applications*. <https://doi.org/10.1002/eap.1718>
45. Meddens, A.H.J.* , **C.A. Kolden**, J.A. Lutz, J.T. Abatzoglou, and A.T. Hudak. 2018. Spatiotemporal patterns of unburned areas within fire perimeters in the northwestern United States from 1984 to 2014. *Ecosphere* 9(2):e02029. <http://doi.org/10.1002/ecs2.2029>
- 44. Kolden, C. A.**, T. M. Bleeker, A. M. S. Smith, H. M. Poulos, A. E. Camp. 2017. Fire effects on historical wildfire refugia in contemporary wildfires. *Forests*, 8, 400.
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34. Sparks, A.M.*, **C.A. Kolden**, A.F. Talhelm , A.M.S. Smith , K.G. Apostol, D.M. Johnson , and L. Boschetti. 2016. Spectral indices accurately quantify changes in seedling physiology following fire: towards mechanistic assessments of carbon dynamics following wildfire. *Remote Sensing* 8(7), 572. doi:10.3390/rs8070572.
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25. Olsen, P.M.*, **C.A. Kolden**, and L. Gadamus. 2015. Developing marine habitat suitability models from remotely-sensed data and traditional ecological knowledge. *Remote Sensing* 7(9), 11863-11886; doi:[10.3390/rs70911863](https://doi.org/10.3390/rs70911863)
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21. Birch, D., P. Morgan, **C.A. Kolden**, J.T. Abatzoglou, G.K. Dillon, A.T. Hudak, and A.M.S. Smith. 2015. Vegetation, topography and daily weather influenced burn severity in central Idaho and western Montana forests. *Ecosphere* 6(1): art17.
20. Bowen, E., A. Miles, **C.A. Kolden**, M.T. Tinker, J. Bodkin, J. Saarinen. 2015. Effects of wildfire on sea otter (*Enhydra lutris*) immune function. *Marine Mammal Science* 31: 191-210.
19. Morrison, K.D.* and **C.A. Kolden**. 2015. Modeling the impacts of wildfire on runoff and pollutant transport from coastal watersheds to the nearshore environment. *Journal of Environmental Management*, 151: 113-123. doi:10.1016/j.jenvman.2014.12.025
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16. Birch, D., P. Morgan, **C.A. Kolden**, A. Hudak, and A.M.S. Smith. 2014. Is proportion burned severely related to daily area burned? *Environmental Research Letters*, 9(6), 064011.
15. Hicke, J.A., A.J.H. Meddens, C.D. Allen, and **C.A. Kolden**. 2013. Carbon stocks of trees killed by bark beetles and wildfire in the western United States. *Environmental Research Letters* 8(3), 035032.
14. Abatzoglou, J.T., **C.A. Kolden**. 2013. Relationships between climate and macroscale area burned in the western United States. *International Journal of Wildland Fire*. <http://dx.doi.org/10.1071/WF13019>
13. Bowlick, F.J.*, **C.A. Kolden**. 2013. Effects of an Introductory Geography Course on Student Perceptions of Geography at the University of Idaho. *Journal of Geography in Higher Education*. doi:10.1080/03098265.2013.801068
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11. **Kolden, C.A.**, J.A. Lutz, C.H. Key, J.T. Kane, and J.W., van Wagtendonk. 2012. Mapped versus actual burned area within wildfire perimeters: characterizing the unburned. *Forest Ecology and Management*, 286: 38-47. 10.1016/j.foreco.2012.08.020

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8. **Kolden, C.A.**, J.T. Abatzoglou. 2012. Climate and Vegetation Influences on Fire Impacts in Alaskan Boreal Forest: Implications for Carbon and Fire Management. *Fire Ecology* 8(1): 98-113.
7. Lutz, J., C.H. Key, **C.A. Kolden**, J.T. Kane, and J.W. Van Wagtendonk. 2011. Fire frequency, area burned, and severity: A quantitative approach to defining a normal fire year. *Fire Ecology* 7(2): 51-65.
6. Abatzoglou, J.T., and **C.A. Kolden**. 2011. Relative Importance of Weather and Climate on Wildfire Growth in Interior Alaska. *International Journal of Wildland Fire* 20(4) 479-486.
5. Abatzoglou, J.T. and **C.A. Kolden**. 2011. Climate change in western US deserts: potential for increased wildfire and invasive annual grasses. *Rangeland Ecology and Management*, September 2011, Vol. 64, No. 5, pp. 471-478. 10.2111/REM-D-09-00151.1
4. **Kolden, C.A.** and T.J. Brown. 2010. Beyond Wildfire: Perspectives of Climate, Managed Fire and Policy in the U.S.A. *International Journal of Wildland Fire* 19(3): 364-373. 10.1071/WF08111
3. Jones, B., **C.A. Kolden**, R. Jandt, J.T. Abatzoglou, F. Urban, and C. Arp. 2009. Fire behavior, weather, and burn severity of the 2007 Anaktuvuk River tundra fire, North Slope, Alaska. *Arctic, Antarctic, and Alpine Research*. 41(3): 309-316. 10.1657/1938-4246-41.3.309
2. **Kolden, C.A.** and P.W. Weisberg. 2007. Assessing accuracy of manually-mapped wildfire perimeters in topographically dissected areas. *Fire Ecology* 3(1): 22-31.
1. **Kolden, C.A.**, and T.J. Weigel. 2007. Fire risk in San Diego County, California: A weighted Bayesian model approach. *The California Geographer* 47: 1-17.

BOOK CHAPTERS

- Yee, J.L., M.T. Tinker, L. Bowen, H.A. Coletti, D.C. Douglas, **C.A. Kolden**, S.E. Larson, R. Lugo, K. Miles, M.J. Murray, L.M. Nichol, W.P. Perry, J.A. Saarinen, V. von Biela, J.L. Bodkin. 'What drives sea otter population growth and recovery?' Chapter 9 in S.E. Larson and J.L. Bodkin, eds., *Sea Otter Conservation*, Science Direct, 2nd edition.
- Kolden, C.A.**, 2024. 'Wildfire risk, resilience, and adaptation in a burning world.' In Forman, F., N. Ulibarri, and D. Acklerly, eds., *Bending the Curve 2.0: Climate Resilience and Adaptation*.
- Kolden, C.A.**, 2024. 'Colonization of Fire: Why biophysical sciences must teach environmental justice.' Chapter 17 in S. Jinnah, J. Dubreuil, eds., *Teaching Environmental Justice*.
- Abatzoglou, J.T., **C.A. Kolden**, J.F.C. DiMento, P.M. Doughman, and S. Nespor. 2014. 'Climate Change Impacts: Global and Local Views.' Chapter 3 in J.F.C. DiMento and P.M. Doughman, eds., *Climate Change: What it means for us, our children, and our grandchildren*, MIT Press, Cambridge, MA, 2nd edition.

REPORTS AND WHITE PAPERS

- Jensen Hughes. 2026. Community Wildfire Protection Plan for Missoula County, Montana. (contributor)
- Jensen Hughes. 2026. Community Wildfire Protection Plan for Agoura Hills, California. (contributor)
- Kolden, C.A.**, N. Lambrou, and A. Loukaitou-Sideris. 2026. *An Assessment of Wildfire Recovery and Resilience*. Final Report for US Housing and Urban Development. 154pp.
- Jensen Hughes. 2025. Assessment of the Wildfire Management Plan for Hawaii Electric Company. (contributor)
- Jensen Hughes. 2025. Wildfire Risk Assessment for Agoura Hills, California. (contributor)
- Jensen Hughes. 2025. Community Wildfire Protection Plan for San Gabriel Valley, California. (contributor)
- Jensen Hughes. 2025. Wildfire Risk Assessment for Electric Transmission Texas. (contributor)
- Jensen Hughes. 2024. Community Wildfire Protection Plan for Eldorado County, California. (contributor)
- Jensen Hughes. 2024. Community Wildfire Protection Plan for Ojai, California. (contributor)
- Jensen Hughes. 2023. Community Wildfire Protection Plan for Tuolumne County, California. (contributor)
- Jensen Hughes. 2021. Community Wildfire Protection Plan for City of Malibu, California. (contributor)
- Jensen Hughes. 2021. Community Wildfire Protection Plan for Carpinteria-Summerland, California. (contributor)
- City of Santa Rosa Fire Department and GeoElements, LLC (C. Henson, **C. Kolden**, D. Kerr, S. Beckman). 2020. Community Wildfire Protection Plan for City of Santa Rosa, California.
- Montecito Fire Protection District and GeoElements, LLC (C. Henson, **C. Kolden**, D. Kerr, S. Beckman). 2018. A defensible community? A retrospective report of Montecito Fire District's wildland fire program during the 2017 Thomas Fire. October 23, 2018. 72 pp. <https://bit.ly/2r30WaH>
- Santa Barbara County and GeoElements, LLC (C. Henson, **C. Kolden**, D. Kerr, S. Beckman). 2018. Community Wildfire Protection Plan for East Goleta Valley and San Marcos Pass, California.
- Kolden, C.A.** 2017. Disappearing refugia: Identifying trends and resilience in unburned islands under climate change. Final report to the USGS Northwest Climate Science Center. Project Agreement #G14AP00177. August 1, 2017.
- Montecito Fire Protection District and GeoElements, LLC (C. Henson, **C. Kolden**, D. Kerr, S. Beckman). 2016. Community Wildfire Protection Plan for Montecito, California.
- Larkin, N.K., J.T. Abatzoglou, R. Barbero, **C.A. Kolden**, D. McKenzie, B. Potter, E.N. Stavros, E.A. Steel, and B.J. Stocks. Future megafires and smoke impacts. Final report to the Joint Fire Science Program. Project #11-1-7-4. September 30, 2015.
- Kolden, C.A.** 2015. Understanding Geospatial Data Products for Assessing Landscape Fire Severity and Effects: MTBS products and future directions. Briefing Report. 6pp.
- Kern, A., E. McLain, S. Honwad, and **C.Kolden**. 2014. University of Idaho Intermountain Climate Education Network. Final Report for NASA Global Climate Change Education Program. 25pp.

- Kolden, C.A.**, J.T. Abatzoglou, and T.J. Brown. 2012. Developing fuel treatments for a future climate: best practices and use of climate projections. 26pp.
- Brown, T.J., **C.A. Kolden**, and J.T. Abatzoglou. 2012. Assessing fuels treatments in southern California National Forests in the context of climate change. Final Project Report for Joint Fire Science Program. 21pp.
- Jandt, R.R., E.A. Miller, D.A. Yokel, M.S. Bret-Harte, and **C.A.Kolden**. 2012. Findings of Anaktuvuk River Fire Recovery Study, 2007-2011. BLM Report.
- Kolden, C.A.**, J.T. Abatzoglou, and T.J. Brown. 2010. The changing potential for wilderness fire in the 21st century. CEFA Report 10-03. 65pp.
- Kolden, C.A.** 2010. *Characterizing Alaskan Wildfire Regimes through Remotely Sensed Data: Assessments of Large Area Pattern and Trend*. Doctoral dissertation, Clark University. 123pp.
- Abatzoglou, J.T., **C.A. Kolden**, T.J. Brown, and C. Miller. 2008. Intermodel comparison of projected climate-induced changes in extreme fire danger for the northern Rockies. Extended abstract for *Proceedings of The '88 Fires: Yellowstone and Beyond, Jackson, WY, Sept 22-27, 2008*.
- Kolden, C.A.** and T.J. Brown. 2008. *Using climate information for fuels management*. CEFA Report 08-01. 58pp.
- Brown, T.J. and **C.A. Kolden**. 2007. The science of fire: new technologies at the Desert Research Institute make a difference in wildland fire management. *Wildland Firefighter* September 2007.
- Henson, C. and **C.A. Kolden**. 2007. *Vandenberg Air Force Base Fire Management Plan*. Adaptive Management Services Enterprise Team, 21pp.
- Kolden, C.A.**, J. Uyehara, and C. Henson. 2007. *Final Report: Fire Effects for Threatened, Endangered and Invasive Species, Vandenberg Air Force Base, California*. Adaptive Management Services Enterprise Team, 27pp.
- Henson, C., and **C.A. Kolden**. 2007. *Final Report: Fire Hazard Assessment of the Upper Ojai and Bell Canyon communities, Ventura County*. Adaptive Management Service Enterprise Team, 14pp.
- Kolden, C.A.** and T.J. Brown. 2006. *Wildfire Risk in the Lake Tahoe Basin: Current Issues and Perspectives*. UNR Reynolds School of Journalism. 22pp.
- Kolden, C.A.** 2005. *Climate Impacts on Escaped Prescribed Fire Occurrence in California and Nevada*. M.S. Thesis, University of Nevada, Reno. 158pp.
(http://www.cefa.dri.edu/Publications/cak_thesis.pdf)
- Kolden, C. A.** and T. J. Brown. 2005. Utilization of climate information in prescribed fire. In *Proceedings of the EastFIRE Conference*, George Mason University, May 11-13, 2005, Fairfax, Va.
- Brown, T.J., B.A. Morehouse, and **C.A. Kolden**. 2005. Developing sustainable partnerships between fire scientists and decision-makers. In *Proceedings of the EastFIRE Conference*, George Mason University, May 11-13, 2005, Fairfax, Va.
- Kolden, C.A.** and T. J. Brown. 2003. Climate Impacts on Prescribed Fire. In *Proceedings of the 5th Symposium on Fire and Forest Meteorology and the 2nd International Wildland Fire Congress*. November 16-20, 2003, Orlando, Fl.

AWARDS AND HONORS

- 2019 Mid-Career Award, University of Idaho
 2018 Visiting Scholar Award, University of Tasmania

- 2014 University of Nevada, Reno, College of Science Young Alumni Award
- 2009 USGS STAR (Special Thanks for Achieving Results) Award
- 2009 NASA-MSU Professional Enhancement Award
- 2005 Best Master's degree-level paper, Biogeography Specialty Group, Association of American Geographers Annual Meeting
- 2005 Best Graduate Paper, California Geographical Society Annual Meeting
- 2005 Best Graduate Poster, Univ. of Nevada, Reno, College of Science Annual Poster Competition
- 2005 Best Graduate Poster in the Sciences, Univ. of Nevada, Reno, Graduate Students' Association Annual Poster Competition
- 2003 President's Award for Outstanding Paper by a Master's Student; Association of Pacific Coast Geographers Annual Meeting
- 2003 Outstanding Graduate Student; Univ. of Nevada, Reno, Graduate Students' Association

GRANTS

Total funding: \$12,037,136

Lead PI for **\$5,935,603** in funding, Co-Investigator for additional **\$6,101,533**

Years	Source, Title, Role	Amount
2026-2027	From fuel to food: assessing agriculture as a wildfire mitigation solution, USDA NIFA (Lead PI)	\$193,234
2025-2026	Food as fire buffers: Building the framework to assess interactions between agriculture and wildfire, USDA NIFA (Lead PI)	\$293,829
2024-2027	Unlocking Health Benefits for Californians through Active Land Management Strategies, California Air Resources Board (Co-PI)	\$549,316
2022-2025	HUDRD: Assessment of Wildfire Recovery and Resilience, US HUD (Lead PI)	\$597,154
2022-2026	The California Fire Science Consortium, CALFIRE (Co-PI on Institutional Subaward)	\$337,999
2022-2026	Can Indigenous knowledge systems save western forests and rangelands? Co-producing a framework for collaborative partnerships with tribal fire stewards, USDA NIFA (Lead PI)	\$649,597
2021-2023	Addressing California communities doubly vulnerable to catastrophic wildfires, UC Office of the President (Lead PI)	\$808,629
2020-2021	RAPID: Collaborative Research: In-situ forest ecosystem response to wildfire, NSF (Co-PI)	\$126,029
2019-2023	Scoping grant: Coupling Earth observation data and ecohydrological modeling to predict disturbance-induced runoff and sedimentation for municipal water quantity and quality planning, NASA (Co-PI)	\$150,000

2018-2021	Deploying CERT: Integrating satellite and field measures for improved grazing at management at ranch scales, USDA-CIG (Co-PI)	\$661,118
2017-2018	Expanding a web-based tool for adaptive rangeland management in Oregon and Idaho, USDA (Lead PI)	\$55,000
2016-2019	Determining the ecological importance of wildfire refugia for post-fire management in the northwestern United States, JFSP, (Co-PI)	\$256,829
2016-2018	Towards improved quantification and prediction of post-fire recovery in conifers, JFSP, (Lead PI, as advisor to doctoral student researcher)	\$25,000
2015-2020	Hazards SEES: Advancing Resilience to Compounding Disasters: An Integrated Natural-Human Systems Assessment of Wildfire Vulnerability, NSF (Lead PI)	\$2,775,000
2014-2019	The Nature Conservancy Priscilla Bullitt Collins Trust: Restoring grasslands through adaptive livestock management: Development and deployment of remote-sensing based tools for forage forecasting and utilization, TNC (Co-PI, UI Lead)	\$254,724
2014-2017	Disappearing refugia: identifying trends and resilience in unburned islands under climate change, USGS Northwest Climate Science Center (Lead PI)	\$362,811
2013-2016	Pole Creek wildfire burn severity assessment, USDA Western Wildlands Environmental Threat Assessment Center (Lead PI)	\$19,623
2013-2014	Indices associated with wildland fire part II: management contributions to megafires, USDA USFS Pacific Northwest Research Station (Lead PI)	\$22,535
2013-2015	The relative influence of wildfire and invasive species on land cover change, Murdock Trust Foundation Partners in Science Program (Lead PI)	\$15,000
2012-2013	Identifying remote methods for monitoring aspen regeneration following prescribed fire, Idaho NSF EPSCoR REU program (Lead PI)	\$5,000
2012-2014	NW Climate Science Center: Disaggregating wildfire severity and climate change influences on land cover change in the Pacific Northwest, USGS (Lead PI)	\$58,784
2012-2013	Northern Rockies Fire Science Network, Implementation Phase, Joint Fire Science Program (Co-PI)	\$547,727
2012	Collaborative Development of a Climate Change Curriculum for Classrooms in the Intermountain West- Additional Support for Community Colleges, Idaho NSF EPSCoR (Lead PI)	\$44,874
2011	Northern Rockies Fire Science Network, Planning Phase, Joint Fire Science Program (Co-PI, UI Lead)	\$263,533

2011-2014	Global Climate Change Education (GCCE) Program: Collaborative Development of a Climate Change Curriculum for Classrooms in the Intermountain West, NASA (Co-I)	\$399,451
2009-2013	Climate Impacts on Burn Severity in three forest ecoregions of the U.S., USGS Global Change Research, USGS Global Climate Change Office (Co-PI)	\$634,888
2008-2013	Coastal Ecosystem Responses to Influences from Land and Sea, USGS Global Climate Change Office (Co-PI)	\$1,381,000
2008-2010	Understanding climate impacts on fuels management, Joint Fire Science Program (Co-PI)	\$271,800
2009-2010	Fire and Climate Change in the Western US: A new synthesis for land management, Joint Fire Science Program (Funded Collaborator)	\$197,119
2009	Aldo Leopold Wilderness Research Institute: Determining regional characteristics of Wildland Fire Use thresholds based on climate and fire danger, USDA (Co-PI)	\$70,000
2007	Clark University, Marsh Institute, Geller Research Fellowship	\$2,000
2006	Brigham Young University Charles Redd Center for Western Studies Public Programming Grant	\$1,100
2006	University of Nevada, Reno, Instructional Enhancement Grant	\$533
2006	University of Nevada, Reno, Reynolds School of Journalism Grant	\$2,500
2004	Association of Pacific Coast Geographers, Margaret Trussell Research Grant	\$1,000
2003	University of Nevada, Reno, Graduate Students Association Research Grant	\$2,400

INVITED KEYNOTE AND PLENARY PRESENTATIONS

- Kolden, C.A. “Priorities for wildfire resilience at the intersection of social and ecological systems.” Invited Plenary, Sierra Nevada Science Symposium, Merced, California, March 5-6, 2024.
- Kolden, C.A. “Global wildfire disasters in the 21st century: what have we learned?” Invited Keynote, “Workshop Internacional: Megaincendios”, Concepcion, Chile, May 2, 2023.
- Kolden, C.A. “The rise of wildfire disasters under climate change: what have we learned?” Keynote Plenary, Fire & Climate Conference, International Association of Wildland Fire, Pasadena, CA, May 23, 2022.
- Kolden, C.A. “Rethinking how we measure wildfires: putting the 2020 Fire Season in context,” Invited Keynote Speaker, Western Forestry Graduate Research Symposium, Oregon State University, Corvallis, OR, April 16, 2021.

- Kolden, C.A. “Wildfire resilience across ecosystems under climate change,” Invited Keynote Speaker, Western Forestry Graduate Research Symposium, Oregon State University, Corvallis, OR, April 24, 2020. (Cancelled – COVID)
- Kolden, C.A. “What does wildfire resilience look like?” Advancing WUI Resilience, NFPA, San Francisco, CA, March 3-4, 2020.
- Kolden, C.A. “Wildfire disasters locally and globally: learning from global trends to plan for future bushfires in Tasmania.” Invited keynote speaker, University of Tasmania panel and public lecture on 2019 Tasmania bushfires, February 27, 2019, Hobart, Tasmania.
- Kolden, C.A. “Extreme fires globally: the new ‘normal’?” National Wildfire Litigation Conference, April 27-29, 2018, San Diego, CA, Invited Panelist Presenter.
- Kolden, C.A. “Managing for forest resilience under global change: the power of fire refugia.” Restoring the West Conference 2017: What’s working, what’s not? October 17-18, Logan, UT. Invited Plenary Speaker.
- Kolden, C.A. “Future Fire.” Wildland Fire Workshop, 41st Intertribal Timber Council Annual Symposium. June 26-27, 2017, Yakima, WA. Invited Plenary Speaker.
- Kolden, C.A. “Climate drivers of forest pattern: development of wildfire refugia.” University of Montana Plum Creek Distinguished Lecture Series and Northwest Scientific Association Annual Meeting, March 26-28, 2014, Missoula, Montana. Invited Plenary Speaker.
- Kolden, C.A. “Let’s Talk about Climate: Understanding impacts and Opportunities for the 21st century.” Western Farm Management Extension Committee Annual Meeting, January 4-6, 2012, Kauai, HI. Invited Keynote Speaker.
- Kolden, C.A. “Climate change impacts on humans: Translating Science to fire management.” Presidential Plenary, Association of Pacific Coast Geographers Annual Meeting, October 13-15, 2010, Coeur d’Alene, Idaho. Invited Plenary Speaker.

INVITED LECTURES/ PANELS/ CONFERENCE PRESENTATIONS

(last 7 years only)

2025. Invited seminar, University of British Columbia, Okanagan, BC, Canada, March 2026.
2025. Invited seminar, University of British Columbia, Vancouver, BC, Canada, September 2025.
2025. Oral presentation, European Geosciences Union General Assembly, Vienna, Austria, April 2025.
2025. Invited seminar, Institute of the Environmental and Sustainability, UCLA, Los Angeles, CA, February 2025.
2024. Presenter, USDA NIFA Sustainable Agroecosystems Project Director Meeting, Austin, TX, December 2024.
2024. Invited seminar, HUD Leadership Disaster Recovery seminar series, US HUD, Washington, D.C., October 2024.
2024. Invited field trip leader and speaker, Yosemite Environmental Law Conference, Ahwahnee, CA, September 2024.
2024. Invited seminar, Biology Department seminar series, University of Wyoming, September 2024.
2024. Session organizer and presenter. Socioecological Dynamics of Wildfire Resilience (Sessions I, II, and III). Annual Meeting of the Association for American Geographers, Honolulu, HI, April 2024.

2024. Invited seminar, UC Davis Forest and Fire Ecology Random Lecture series, UC Davis. April 2024.

2023. Invited Seminar, NCX. September 2023.

2022. Invited seminar, UCLA Department of Physical and Earth Sciences, May 2022.

2022. Invited seminar, CITRIS Institute Research Exchange, February 2022.

2021. Invited panelist, Bioneers 2021, November 2021.

2021. Invited seminar, University of Nevada, Reno, Department of Geography, November 2021.

2021. Invited seminar, UCLA Engineering, October 2021.

2021. Invited panelist, UCOP Wildfire Symposium, June 2021.

2021. Invited panelist, Stanford University Woods Institute for the Environment Special Event, [“A New Strategy for Addressing the Wildfire Epidemic in California,”](#) April 2021.

2021. Invited lecture, University of Idaho, Dept of Fish and Wildlife, April 2021.

2021. Invited panelist, UC Center for Climate Justice Kick-off, April 2021.

2021. Invited lecture, University of California Berkeley, Dept of City and Urban Planning, March 2021.

2021. Invited presenter/panelist, California Tree Mortality Workshop, March 2021.

2021. Invited seminar, Univ. of Arizona, Dept of Geography, February 2021.

2020. Invited lecture, University of California Berkeley, Dept of City and Urban Planning, October 2020.

2020. Invited seminar, UC Merced Environmental Systems brown bag, September 2020.

2020. Invited seminar, UCLA Geoscience Colloquium series, January 2020.

2019. Invited seminar, UC Merced MCS program, November 2019

2019. Invited seminar, Missoula Fire Lab Seminar Series, May 15, 2019

2019. Invited seminar, Washington State University School of Environment, March 2019

2019. Invited seminar, UC Merced College of Engineering, March 2019

2019. Invited seminar, The Fire Centre seminar series, University of Tasmania, Hobart, Tasmania, Australia, February 2019

CONFERENCES AND WORKSHOPS ORGANIZED

Organizer and Facilitator, Wildfire Mitigation and Recovery Workshop for US HUD, Yosemite Field Station, Wawona, CA, September 25-27, 2024.

Organizer and Facilitator, Wildfire Recovery Expert Panel, Berkeley, CA, October 4-5, 2023.

Organizer and Panelist, Wildfire Risk to Portland Water Bureau Municipal Watersheds, Portland, OR, May 5-7, 2019

Organizer and Panelist, Wildfire Risk to Seattle Public Utilities Municipal Watersheds, North Bend, WA, November 5-6, 2018

Co-organizer and overview lecture, Big Wood River Valley Fire Resilience Workshop (co-hosted by UI and the Sun Valley Institute for Resilience), Hailey, ID, June 6-8, 2017

PHOENIX: The Fire STC; Identifying Grand Challenges in Fire Science and Education (Co-organizer and Presenter), Workshop at University of Idaho, Moscow, ID, April 17-18, 2014

Workshop on Integrating climate change into fuels management (Organizer and Presenter), Association for Fire Ecology 5th International Fire Ecology and Management Congress, Portland, OR, December 3, 2012

Workshop on fire/climate information (Organizer and Presenter), Palm Springs, CA, October 2011

Field Workshop on Remote Sensing of Burn Severity in Alaska (Organizer), Fairbanks, AK, August 8-13, 2009

Inaugural Nevada Wildland Fire Science and Outreach Conference (Conference Coordinator), May 25, 2006

OUTREACH ACTIVITIES

Co-founder, co-organizer, and co-host (with two other UC colleagues) of the California Wildfire Seminar Series (Sept 2020-present), a virtual weekly seminar that averages approximately 200 attendees every week, including academics, researchers, students, journalists, and members of the general public.

<https://frg.berkeley.edu/spring-2021-california-fire-science-seminar-series/>

- Invited presentation on Future Directions in Wildfire Science, *Nature* editors virtual meeting, May 28, 2025.
- Organizer and moderator, Fire Resilience Seminar at UC Merced, CA, April 17, 2025
- Invited presentation and panelist, Wildfire Resilience Fund virtual meeting on Wildfire Displacement, March 6, 2025.
- Invited presentation to UC Merced Foundation Board of Trustees on the UCM Fire Resilience Center, February 12, 2025.
- Presentation on wildfire and agriculture at the University of Idaho Cereal School, Green Creek and Lewiston, Idaho, January 27 & 28, 2025.
- Invited workshop speaker, Stanford Woods Institute Congressional Staffer Wildfire Bootcamp, August 13-15, 2024.
- Invited speaker, Greenbelt Alliance, Sonoma, CA, May 18, 2024.
- Public lecture for Fresno Rotary, Fresno, CA, May 15, 2023.
- Public lecture, Yosemite Forum at Yosemite National Park, May 9, 2023.
- Invited speaker, Greenbelt Alliance, San Francisco, CA, March 23, 2022.
- Interviewed/filmed for a National Geographic documentary on wildfire and climate change.
- Public lecture for East Fresno Rotary, Fresno, CA, April 21, 2021.
- Public lecture Santa Barbara Fire Safe Council, Santa Barbara, CA, February 25, 2021.
- Public lecture for Modesto Rotary, Modesto, CA, February 23, 2021.
- Interviewed/filmed for the documentary “[California Healing](#)” by filmmaker Jim Thebaut of The Chronicles Group.
- Spoke to AP Environmental Science club at Plymouth HS (Massachusetts), November 12, 2020.
- Public lecture/panel for Quest Science Center in Livermore, November 10, 2020.

- Brown Bag seminar for Climate Central journalists, July 24, 2020.
- Public presentation for RepublicEN organization, February 26, 2020.
- Interviewed/filmed for a documentary on California and climate change for Al Jazeera; “[Donald Trump and California: A battle of wildfires and wills](#)”, February 2020
- Public presentation on wildfire risk and climate change in Malibu. Malibu, CA, February 22, 2020.
- Public lecture on future wildfire and climate change in Santa Barbara County, CA, October 18, 2018
- Public presentation of post-Thomas Fire analysis results for Montecito Fire District, CA, October 17, 2018
- November 8, 2016: Invited seminar/outreach, High Desert Museum of Natural History, Bend, OR

TEACHING AND ADVISING

(** indicates new course that I developed)

Courses taught as Sole Instructor at UC Merced:

- **Research Methods in Complex Systems, MIST 260 (SP21, SP22, FA23)
- **Living with Wildfire, SPARK 010 (SP22, FA24, SP25)
- Risk Management: Case Studies in Sustainability, MIST 207 (SP22)
- Spatial Analysis and Modeling, ENGR 180 (SP23, SP24, SP25)
- **Wildfire in the Environment, ES 290/MIST 292 (SP23)

Courses Taught as Sole Instructor at the University of Idaho:

Undergraduate

- **Fire Ecology and Management, FOR 326 (FA19)
- **As the World Burns: Fire on Earth, CORS 235 (FA17)
- Introduction to Spatial Analysis for Natural Resource Management, FOR 375 (SP17, SP18)
- Physical Geography (FA10, SP12)
- **Physical Geography (online course), (SP14)
- Senior Capstone Experience, (SP14, FA14, SP15)

Graduate

- GIS for Fire Ecology and Management, REM 510 (SP17)
- **Seminar: Professional Development (SP12)
- Instruction in Geography/Higher Education (SP12, FA12, SP13)
- **Seminar: Ecosystem Vulnerability (SP15)
- **Advanced Remote Sensing (FA12)

Other:

FARSITE Fire behavior and fuels modeling short courses (USFS, 2005)

Graduate Students Advised:

Completed (as major professor)

Marcelo Santos Rocha da Silva, Ph.D., Management of Complex Systems (UC Merced 2025)

Mykael Pineda, M.S., Environmental Systems (UC Merced, 2024)
Varvara Fedorova, M.S., Environmental Systems (UC Merced, 2024)
Tara Harmon, M.S., Environmental Systems (UC Merced 2024)
Josh Picotte, Ph.D., Natural Resources (University of Idaho, 2023)
Joshua Clark, M.S. Natural Resources (University of Idaho, 2020)
Vincent Jansen, Ph.D. Natural Resources (University of Idaho, 2018)
Carrie Minerich, M.S. Natural Resources (University of Idaho, 2018)
Aaron Sparks, Ph.D., Natural Resources (University of Idaho, 2017)
Devin Yeatman, M.S. Natural Resources (University of Idaho, 2017)
Ryan McCarley, M.S. Geography (University of Idaho, 2016)
John Kannady, M.S. Geography (University of Idaho, 2016)
Tyler Bleeker, M.S. Geography (University of Idaho, 2015)
Vincent Jansen, M.S. Environmental Science (University of Idaho, 2014)
Katherine Morrison, M.S. Geography (University of Idaho, 2014)
Patrick Olsen, M.S. Geography (University of Idaho, 2014)
Forrest Bowlick, M.S. Geography (University of Idaho, 2012)

Current (as major professor/primary advisor)

Stephen Vasquez, Ph.D., Environmental Systems (matriculating Fall 2025 to UC Merced)
Abigail Ruskey, Ph.D., Management of Complex Systems (on leave)

Graduate committee member

Genevieve McKeown-Green, Ph.D., Environmental Systems, UC Merced (Committee Member, in progress)
Reed Humphrey, Ph.D., Public Policy, Univ. of Washington (Committee Member, in progress)
Darlene Rini, Ph.D., Geography, UC Santa Barbara (Committee Member, in progress)
Shusmita Saha, Ph.D., Mechanical Engineering (Committee Member, in progress)
Adam Jorge, Ph.D., Management of Complex Systems (Committee Member, in progress)
Ashwin Thomas, Ph.D., Environmental Systems (Committee Member, in progress)
Louis Amblegator, Ph.D., Environmental Systems (Committee Member, UC Merced 2025)
Brittany Lopez Barreto, Ph.D. Environmental Systems (Committee Member, UC Merced 2024)
Madeline Brown, Ph.D. Environmental Systems (Committee Member, UC Merced 2023)
Jonathan Sam, Ph.D. Environmental Systems (Committee Chair, UC Merced, 2023)
Eloise Zimbleman, Ph.D. Natural Resources (University of Idaho, 2022)
Kristina Bartowitz, Ph.D. Natural Resources (University of Idaho, 2022)
Stephen Taylor, Ph.D., Interdisciplinary Studies (Simon Fraser University, 2021)
Jeff Stenzel, Ph.D. Natural Resources (University of Idaho, 2021)
Raquel Partelli Feltrin, Ph.D. Natural Resources (University of Idaho, 2020)
Anthony Martinez, M.S. Natural Resources (University of Idaho, 2019)
Seth Gorelik, M.S. Geography (University of Idaho, 2017)
Donovan Birch, M.S. Forest Resources (University of Idaho, 2013)
Christine Droske, M.S. Forest Resources (University of Idaho, 2012)
Benoit Parmentier, Ph.D. Geography (Clark University, 2011)

Postdoctoral Fellows mentored:

Mukesh Kumar (2025-present)

Josh Olsen (2025-present)

Nicole Lambrou (2022-2024), now Assistant Professor, Cal Poly Pomona

Jeffrey Stenzel (2021-2023), now Postdoc, USFS PSW

Aaron Sparks (2017), now Assistant Professor, University of Idaho

Arjan Meddens (2013-2017), now Associate Professor, Washington State University

R. Justin Hougham (2012-2013), now Associate Extension Professor, University of Wisconsin

MEDIA

I regularly receive more media requests than I can fulfill, particularly during fire season. Over the past 5 years, I have received an average of 60-80 media requests per year, and I am able to fulfill approximately 50% of these requests.

Selected Highlights:

- 2025 LA Fires
 - [NPR Marketplace](#)
 - [KQED](#)
 - [NY Times](#)
 - [Bloomberg](#)
 - [CNN](#)
 - [LATimes](#)
 - [The Atlantic](#)
- 2024 [SF Chronicle](#)
- 2023 Maui Extreme Fires
 - [Vox](#)
 - [LATimes](#)
 - [NBC News](#)
- 2021 US wildfires:
 - [The Washington Post](#)
 - [LA Times](#) (2) (3)
 - [Life with Fire podcast](#)
 - [CapRadio](#)
- 2020 Western US wildfire season: I received approximately 50-60 media requests from July – December 2020, and made appearances in outlets including:
 - [The Washington Post \(invited op-ed\)](#)
 - [The New York Times](#)
 - [The Atlantic](#)
 - [CBC \(Canadian Broadcasting Corporation\)](#)
 - ABC (Australian Broadcasting Corp)
 - [InvestigateWest](#)
 - NPR/[CapRadio](#) (2) (3)
 - [Bloomberg](#)
 - [ProPublica](#) (2)
 - Multiple California-based radio stations
 - National affiliate-television stations in the SF Bay Area and Los Angeles
 - Podcasts, including:

[Bioneers](#)
[Life with Fire](#)
[Sea Change Radio](#)
[Let's Talk about Water](#)

- November 2019 - January 2020 – Australia bushfires
 - [PRI Interview with NPR's Steve Curwood](#)
 - [NPR Science Friday with Ira Flatow](#)
 - [Interview in Washington Post](#)
 - [Interview in NYT](#)
 - [Interview in The Verge](#)
- [Interview with Deseret News](#)
- May 2019 - my [paper on prescribed fire in Fire](#) in collaboration with Climate Central
 - [Climate Central Reporting](#)
 - [Interview with PBS Newshour Weekend](#)
 - [Interview in the Sacramento Bee](#)
 - [Interview in the LA Times](#)
 - [Interview with NBC San Diego](#)
 - [Interview with Popular Science](#)
 - [Article in Southerly Mag](#)
 - [Interview with the Lewiston Tribune](#)
 - [Article in NJ.com News outlet](#)
 - [Radio interview with Utah Public Radio](#)
 - [Radio Interview with NPR Atlanta WABE](#)
 - [Radio Interview with Public News Service](#)
- January 2019 Tasmania bushfires:
 - [Talking point in The Mercury \(Hobart\) \(link is to a reproduction as original is behind a paywall\)](#)
 - [Interview with the Launceston Examiner](#)
 - ABC Radio Hobart Morning Show interview with Ryk Goddard
 - ABC Radio Hobart Morning Show interview with Leon Compton
 - [Seminar given at the University of Tasmania Fire Centre, February 2019](#)
 - [Interview in NYT](#)
 - [Women in Fire Science article in National Tribune](#)
- Related to the November 2018 California Fires:
 - [NYT Op-ed](#)
 - [Guardian Op-ed](#)
 - [Interview with PRI's The World with Marco Werman](#)
 - [AP Article interview \(picked up by multiple outlets across the US\)](#)
 - [NOVA interview](#)
 - [Wired interview](#)
 - [PBS Newshour Interview](#)
 - [Mashable article on Montecito, CA](#)
 - [Mashable article on Camp Fire](#)
 - [Playboy article](#)

Al Jazeera English Interview (TV)

[Radio News Australia Interview](#) (Radio)

- October 16, 2018: [Brief note in Popular Science](#)
- October 12, 2018: [Article in the NYT on our BioScience paper](#)
- August 30, 2018: Podcast discussion with Water Deeply on wildfires and clean water
- August 8, 2018: [Op-ed in the Guardian on California wildfires](#)
- June 10, 2017: [Interview with Idaho's Post Fall Register about fire borrowing](#)
- August 13, 2016: [Interview with HCN on fire and climate change](#)
- June 19, 2016: [Interview with the Guardian on fire risk reduction in CA](#)
- September 23, 2015 - [Interview with NWPR about wildfire consequences](#)
- September 11, 2015 - [Article on cascading consequences of wildfire from Rocky Barker at the Idaho Statesman related to our work](#)
- August 29, 2015 - [Article on the new NSF project in the Moscow Pullman Daily News](#)
- August 25, 2015 - [Article on my new NSF grant on increasing community wildfire resilience in the Spokesman Review](#)
- September 23, 2015 - [Interview with NWPR about wildfire consequences](#)
- September 11, 2015 - [Article on cascading consequences of wildfire from Rocky Barker at the Idaho Statesman related to our work](#)
- August 29, 2015 - [Article on the new NSF project in the Moscow Pullman Daily News](#)
- August 25, 2015 - [Article on my new NSF grant on increasing community wildfire resilience in the Spokesman Review](#)
- July 5, 2013 - [An op-ed I wrote for the Washington Post on responsible building in wildfire-prone areas.](#)
- July 3, 2013 - [Interview on Minnesota Public Radio about wildfires](#)
- June 19, 2013 - [Interview with Michael Kodas about wildfire policy in the US](#)
- April 8, 2011 - [Article I wrote on using climate information for the Wildland Fire Lessons Learned Center](#)
- April 2011 - [Podcast with Wildland Fire Lessons Learned Center on Fire and Climate relationships](#)

SERVICE

Service at UC Merced

- UC Merced Fire Resilience Center (Director), 2024-present
- MCS AP Case committees (member 2022-2025, chair of one committee in 2023-2024)
- MIST GG Executive Committee (member), 2020-present
- UCNRS Yosemite-Sequoia Field Stations Faculty Advisory Committee (member), 2021-present
- Library and Scholarly Communication Committee (member), 2022-2023
- ES GG Admissions Committee (Chair), 2022-2023
- ES GG Admissions Committee (member), 2020-2022
- Gallo School Executive Planning Committee (member), 2021-2024
- MCS Vice Chair, 2021-2022
- UC Merced Natural Reserve Associate Director Search Committee (member), 2021-2022

- Faculty Advisory Committee on Sustainability (member), 2021-2022
- Faculty Advisory Committee on Sustainability, Education Subcommittee (member), 2021-2022
- UCOP VPR Wildfire seminar series planning team (member), 2021

Service at University of Idaho

- Forest, Rangeland, and Fire Sciences Faculty Search Committee, 2019-2020
- Faculty Affairs Committee, 2016-2019
- Forest, Rangeland, and Fire Sciences Faculty Search Committee, 2016-2017
- Geography Dept. Faculty Search Committee, 2014-2015
- Geography Dept. Faculty Search Committee (2), 2013-2014
- Geography Dept. Seminar Series Committee member, 2012-2013
- Geography Dept. Graduate Admissions Chair, 2013-2014
- Geography Dept. Graduate Admission Committee, 2012
- Department of Forest, Range, and Fire Science Faculty search committee, 2013-2014
- Desert Research Institute, Reno, NV, Post-doctoral fellow search committee, 2013
- Department of Forest, Range, and Fire Science Instructor search committee, 2012
- Department of Geography Chair Search Committee, 2011-2012
- Search Committee for J. Hicke employee, 2011
- Search Committee for ICE Net post-doctoral associate, 2011