

**Larissa L. Yocom**  
Department of Wildland Resources, Utah State University

## EDUCATION

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**Ph.D.**, 2011, Forest Ecology. Northern Arizona University School of Forestry.  
**M.E.Sc.**, 2006, Environmental Science. Yale School of Forestry & Environmental Studies.  
**B.A.**, 1999, Public Policy Analysis/Biology. Pomona College.

## PROFESSIONAL EXPERIENCE

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<b>2025 – present</b>	Director, Utah Forest Restoration Institute, Utah State University
<b>2023 – present</b>	Associate Professor, Department of Wildland Resources, Utah State University
<b>2017 – 2023</b>	Assistant Professor, Department of Wildland Resources, Utah State University
<b>2016 – 2017</b>	Research Associate and Postdoctoral Scholar, School of Informatics, Computing, and Cyber Systems, Northern Arizona University
<b>2012 – 2017</b>	Research Associate & Instructor, School of Forestry, Northern Arizona University
<b>2011 – 2012</b>	Lecturer, School of Forestry, Northern Arizona University

## PUBLICATIONS

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### *Peer-reviewed journal articles*

46. **Yocom, L.L.**, M.R. Kreider, O.T. Burney, T. Parsons, R.T. Choi, E.K. Liese, and K.E. Mock. 2025. Experiments to enhance post-fire aspen seedling survival and growth. *New Forests* 56: 41. <https://doi.org/10.1007/s11056-025-10097-7>

45. Parks, S.A., C.H. Guiterman, E.Q. Margolis, M. Lonerman, E. Whitman, J.T. Abatzaglou, D.A. Falk, J.D. Johnston, L.D. Daniels, C.W. Lafon, R.A. Loehman, K.F. Kipfmuehler, C.E. Naficy, M-A. Parisien, J. Portier, M.C. Michael Stambaugh, A.P. Williams, A.P. Wion, **L.L. Yocom**. 2025. A fire deficit persists across diverse North American forests despite recent increases in area burned. *Nature Communications* 16: 1493. <https://doi.org/10.1038/s41467-025-56333-8>

44. Klimas, K.B., **L.L. Yocom**, B.P. Murphy, S.R. David, P.B. Belmont, J.A. Lutz, R.J. DeRose, S.A. Wall. 2025. A machine learning model to predict wildfire burn severity for pre-fire risk assessments, Utah, USA. *Fire Ecology*. <https://doi.org/10.1038/s41467-025-56333-8>

43. Margolis, E., A. Wion, J. Abatzoglou, L. Daniels, D. Falk, C. Guiterman, J. Johnston, K. Kipfmüller, C. Lafon, R. Loehman, M. Lonergan, C. Naficy, M.-A. Parisien, S. Parks, J. Portier, M. Stambaugh, E. Whitman, A. Williams, **L. Yocom**. 2025. Spatiotemporal synchrony of climate and fire occurrence across North American forests (1750-1880). *Global Ecology and Biogeography* 34(1):e13937. <https://doi.org/10.1111/geb.13937>
42. Ortega, M., A. Lora, **L. Yocom**, R. Zumaquero, J.R. Molina. 2025. Effects of fire recurrence and severity on Mediterranean vegetation dynamics: Implications for structure and composition in southern Spain. *Science of the Total Environment* 961: 178392. <https://doi.org/10.1016/j.scitotenv.2025.178392>
41. Nesbit, K., **L. Yocom**, A. Trudgeon, P. Rogers, D. McAvoy, E. Lane, and R.J. DeRose. 2024. Stand composition and development stage affect flammability of quaking aspen forests in UT, USA. *Canadian Journal of Forest Research*. <https://doi.org/10.1139/cjfr-2024-0095>
40. Dye, A.W., P. Gao, J.B. Kim, T. Lei, K.L. Riley, and **L. Yocom**. 2023. High-resolution wildfire simulations reveal complexity of climate change impacts on projected burn probability for Southern California. *Fire Ecology* 19(1): 1-19. <https://doi.org/10.1186/s42408-023-00179-2>
39. Davis, K.T., [+ 59 authors], **L.L. Yocom**, [+ 2 authors]. 2023. Reduced fire severity offers near-term buffer to climate-driven declines in conifer resilience across the western United States. *Proceedings of the National Academy of Sciences* 120 (11): e2208120120. [www.pnas.org/doi/10.1073/pnas.2208120120](http://www.pnas.org/doi/10.1073/pnas.2208120120)
38. Nesbit, K.A., **L.L. Yocom**, A.M. Trudgeon, R.J. DeRose, and P.C. Rogers. 2023. Tamm review: Quaking aspen's influence on fire occurrence, behavior, and severity. *Forest Ecology & Management* 531: 120752. <https://doi.org/10.1016/j.foreco.2022.120752>
37. Wall, S., B.P. Murphy, P. Belmont, and **L. Yocom**. 2023. Predicting post-fire debris flow grain sizes and depositional volumes in the Intermountain West, USA. *Earth Surface Processes and Landforms* 48(1): 179-197. <https://doi.org/10.1002/esp.5480>
36. **Yocom, L.L.**, J. Jenness, P.Z. Fulé, A.E. Thode. 2022. Fire severity in reburns depends on vegetation type in Arizona and New Mexico, U.S.A. *Forests* 13: 1957. <https://doi.org/10.3390/f13111957>
35. Howe, A., S.A. Parks, B.J. Harvey, S.J. Saberi, J.A. Lutz, and **L.L. Yocom**. 2022. Comparing Sentinel-2 and Landsat 8 for burn severity mapping in western North America. *Remote Sensing* 14(20): 5249. <https://doi.org/10.3390/rs14205249>
34. Margolis, E.Q., C.H. Guiterman, [+ 46 authors], **L.L. Yocom**, [+ 38 authors]. 2022. The North American tree-ring fire-scar network. *Ecosphere* 13(7): e4159. <https://doi.org/10.1002/ecs2.4159>

33. **Yocom, L.L.**, K. Ogle, D. Peltier, P. Szejner, Y. Liu, and R. K. Monson. 2022. Tree growth sensitivity to climate varies across a seasonal precipitation gradient. *Oecologia* 198: 933-946. <https://doi.org/10.1007/s00442-022-05156-1>
32. Peltier, D.M.P., J. Guo, P. Nguyen, M. Bangs, L. Gear, M. Wilson, S. Jeffreys, K. Samuels-Crow, **L.L. Yocom**, Y. Liu, M.K. Fell, D. Auty, C. Schwalm, W.R.L. Anderegg, G.W. Koch, M.E. Litvak, and K. Ogle. 2022. Temperature memory and non-structural carbohydrates mediate legacies of a hot drought in trees across the southwestern USA. *Tree Physiology* 42: 71-85. <https://doi.org/10.1093/treephys/tpab091>
31. Stevens J.T., C.M. Haffey, J.D. Coop, P.J. Fornwalt, **L. Yocom**, C.D. Allen, A. Bradley, O.T. Burney, D. Carril, M.E. Chambers, T.B. Chapman, S.L. Haire, M.D. Hurteau, J.M. Iniguez, E.Q. Margolis, C. Marks, L.A.E. Marshall, K.C. Rodman, C.S. Stevens-Rumann, A.E. Thode, J.J. Walker. 2021. Tamm Review: Postfire landscape management in frequent-fire conifer forests of the southwestern United States. *Forest Ecology and Management* 502: 119678. <https://doi.org/10.1016/j.foreco.2021.119678>
30. Kreider, M. and **L.L. Yocom**. 2021. Low-density aspen seedling establishment is widespread following recent wildfires in the western U.S. *Ecology* 102: e03436. <https://doi.org/10.1002/ecy.3436>
29. Prichard, S., P. Hessburg, R.K. Hagmann, N.A. Povak, D. S.Z. Dobrowski, M.D. Hurteau, V.R. Kane, R.E. Keane, L.N. Kobziar, C.A. Kolden, M. North, S.A. Parks, H.D. Safford, J.T. Stevens, **L.L. Yocom**, D.J. Churchill, R.W. Gray, D.W. Huffman, F.K. Lake, and P. Khatri-Chhetri. 2021. Adapting Western North American forests to climate change and wildfires: Ten misconceptions. *Ecological Applications* e02433. <https://doi.org/10.1002/eap.2433>
28. Hagmann, K., P.F. Hessburg, S.J. Prichard, N.A. Povak, P.M. Brown, P.Z. Fulé, R.E. Keane, E.E. Knapp, J.M. Lydersen, K.L. Metlen, J.J. Reilly, A.J. Sánchez Meador, S.L. Stephens, J.T. Stevens, A.H. Taylor, **L.L. Yocom**, [+ 14 authors]. 2021. Evidence for widespread changes in the structure, composition, and fire regimes of Western North American forests. *Ecological Applications* e02431. <https://doi.org/10.1002/eap.2431>
27. Kreider, M.R. and **L.L. Yocom**. 2021. Aspen seedling establishment, survival, and growth following a high-severity wildfire. *Forest Ecology and Management* 493: 119248. <https://doi.org/10.1016/j.foreco.2021.119248>
26. Lutz, J., S. Struckman, T.J. Furniss, J.D. Birch, **L.L. Yocom**, D.J. McAvoy. 2021. Large-diameter trees, snags and deadwood in southern Utah, USA. *Ecological Processes* 10: 9. <https://doi.org/10.1186/s13717-020-00275-0>
25. Dupéy Larsen, L.N., P. Howe, M. Brunson, **L. Yocom**, D. McAvoy, E. H. Berry, and J. Smith. 2021. Risk perceptions and mitigation behaviors of residents following a near-miss wildfire. *Landscape and Urban Planning* 207:103005. <https://doi.org/10.1016/j.landurbplan.2020.104005>

24. Gray, C.A., C. Toone, M.J. Jenkins, S.E. Null, and **L.L. Yocom**. 2021. Spatial and temporal fuels changes in whitebark pine (*Pinus albicaulis*) from mountain pine beetle (*Dendroctonus ponderosae*). *Forest Ecology and Management* 482: 118789. <https://doi.org/10.1016/j.foreco.2020.118789>
23. Peltier, D.M.P., J. Guo, P. Nguyen, M. Bangs, L. Gear, M. Wilson, S. Jeffreys, K. Samuels-Crow, **L.L. Yocom**, [+ 9 authors]. 2021. Temporal controls on crown non-structural carbohydrates and links to sapwood storage in southwestern US tree species. *Tree Physiology* 41: 388:402. <https://doi.org/10.1093/treephys/tpaa149>
22. Chikamoto, Y., S.-Y.S. Wang, M. Yost, **L. Yocom** and R.R. Gillies. 2020. Colorado River water supply is predictable on multi-year timescales owing to long-term ocean memory. *Communications Earth & Environment* 1:26. <https://doi.org/10.1038/s43247-020-00027-0>
21. Lutz, J.A., S. Struckman, T.J. Furniss, C.A. Cansler, S.J. Germain, **L.L. Yocom**, D.J. McAvoy, C.A. Kolden, A.M.S. Smith, M.E. Swanson, and A.J. Larson. 2020. Large-diameter trees dominate snag and surface biomass following reintroduced fire. *Ecological Processes* 9:41. <https://doi.org/10.1186/s13717-020-00243-8>
20. Kreider, M.R., K.E. Mock, and **L.L. Yocom**. 2020. Methods for distinguishing aspen seedlings from suckers in the field. *Journal of Forestry* 118:561–568. <https://doi.org/10.1093/jofore/fvaa030>
19. Ireland, K.B., M.M. Moore, P.Z. Fulé, **L.L. Yocom**, and T.J. Ziegler. 2020. Warm, dry conditions inhibit aspen growth, but tree growth and size predict mortality risk in the southwestern United States. *Canadian Journal of Forest Research* 50:1206-1214. <https://doi.org/10.1139/cjfr-2019-0222>
18. Mueller, S.E., A.E. Thode, E.Q. Margolis, **L.L. Yocom**, J. Young, and J. Iniguez. 2020. Climate relationships with increasing wildfire in the southwestern US from 1984 to 2015. *Forest Ecology and Management* 460: 117861. <https://doi.org/10.1016/j.foreco.2019.117861>
17. **Yocom, L.L.**, J. Jenness, P.Z. Fulé, and A.E. Thode. 2019. Previous fires and roads limit wildfire growth in Arizona and New Mexico, U.S.A. *Forest Ecology and Management* 449: 117440. <https://doi.org/10.1016/j.foreco.2019.06.037>
16. Murphy, B.P., **L.L. Yocom**, and P. Belmont. 2018. Beyond the 1984 perspective: narrow focus on modern wildfire trends underestimates future risks to water security. *Earth's Future* 6: 1492-1497. <https://doi.org/10.1029/2018EF001006>
15. **Yocom Kent, L.L.**, P.Z. Fulé, P.M. Brown, J. Cerano, E. Cornejo-Oviedo, C. Cortés Montaña, S.A. Drury, D.A. Falk, J. Meunier, H.M. Poulos, C.N. Skinner, S.L. Stephens, J. Villanueva-Díaz. 2017. Climate drives fire synchrony but local factors control fire regime change in northern Mexico. *Ecosphere* 8(3): Article e01709. <https://doi.org/10.1002/ecs2.1709>

14. Kalies, E.L. and **L.L. Yocom Kent**. 2016. Tamm Review: Are fuel treatments effective at achieving ecological and social objectives? A systematic review. *Forest Ecology and Management* 375: 84-95. <https://doi.org/10.1016/j.foreco.2016.05.021>
13. **Yocom Kent, L.L.**, P.Z. Fulé, W.A. Bunn, and E.G. Gdula. 2015. Historical high-severity fire patches in mixed-conifer forests. *Canadian Journal of Forest Research* 45(11): 1587-1596. <https://doi.org/10.1139/cjfr-2015-0128>
12. **Yocom Kent, L.L.**, and P.Z. Fulé. 2015. Do rules of thumb measure up? Characteristics of fire-scarred trees and samples. *Tree-Ring Research* 71(2): 78-82. <https://doi.org/10.3959/1536-1098-71.2.78>
11. **Yocom Kent, L.L.**, K.L. Shive, C.H. Sieg, M.E. Hunter, C. Stevens-Rumann, and P.Z. Fulé. 2015. Interactions of fuel treatments, wildfire severity, and carbon dynamics. *Forest Ecology & Management* 349: 66-72. <https://doi.org/10.1016/j.foreco.2015.04.004>
10. Villanueva Díaz, J., J. Cerano Paredes, P.Z. Fulé, C. Cortés Montaña, L. Vásquez Selem, **L.L. Yocom**, and J.A. Ruiz-Corral. 2015. [Translation from Spanish]: Four centuries of reconstructed hydroclimatic variability for Northwestern Chihuahua, Mexico, based on tree rings. *Investigaciones Geográficas, Boletín del Instituto de Geografía* 87: 141-153. <https://doi.org/10.14350/rig.44485>
9. Cerano-Paredes, J., J. Villanueva-Díaz, R. Cervantes-Martínez, P. Fulé, **L. Yocom**, G. Esquivel-Arriaga, and E. Jardel-Peláez. 2015. [Translation from Spanish]: Fire history in a pine forest in Sierra de Manantlán, Jalisco, Mexico. *Bosque* 36(1): 41-52. <http://dx.doi.org/10.4067/S0717-92002015000100005>
8. Villanueva-Díaz, J., J. Cerano-Paredes, L. Vázquez-Selem, D.W. Stahle, P.Z. Fulé, **L.L. Yocom**, O. Franco-Ramos, J.A. Ruiz Corral. 2015. [Translation from Spanish]: Dendrochronological network of mountain pine (*Pinus hartwegii* Lindl.) for dendroclimatic studies in northeastern and central Mexico. *Investigaciones Geográficas, Boletín del Instituto de Geografía* 86: 5-14. <https://doi.org/10.14350/rig.42003>
7. **Yocom, L.L.**, P.Z. Fulé, D.A. Falk, E. Cornejo-Oviedo, P.M. Brown, J. Villanueva Díaz, J. Cerano, C. Cortés Montaña. 2014. Fine-scale factors influence fire regimes in mixed-conifer forests on three high mountains in Mexico. *International Journal of Wildland Fire* 23: 959-968. <https://doi.org/10.1071/WF13214>
6. Irby, C.M., P.Z. Fulé, **L.L. Yocom**, J. Villanueva Díaz. 2013. Dendrochronological reconstruction of long-term precipitation patterns in Basaseachi National Park, Chihuahua, Mexico. *Madera y Bosques* 19(1):93-105.
5. **Yocom, L.L.**, and P.Z. Fulé. 2012. Human and climate influences on frequent fire in a high-elevation tropical forest. *Journal of Applied Ecology* 49(6):1356-1364. <https://doi.org/10.1111/j.1365-2664.2012.02216.x>

4. Cortés Montaña, C., P.Z. Fulé, D.A. Falk, J. Villanueva-Díaz, **L.L. Yocom**. 2012. Linking old-growth forest composition, structure, fire history, climate and land-use in the mountains of northern México. *Ecosphere* 3(11): Article 106. <https://doi.org/10.1890/ES12-00161.1>
3. Fulé, P.Z., **L.L. Yocom**, C. Cortés Montaña, D.A. Falk, J. Cerano, J. Villanueva-Díaz. 2012. Testing a pyroclimatic hypothesis on the Mexico-United States border. *Ecology* 93(8): 1830-1840. <https://doi.org/10.1890/11-1991.1>
2. **Yocom, L.L.**, P.Z. Fulé, P.M. Brown, J. Cerano, J. Villanueva-Díaz, D.A. Falk, E. Cornejo-Oviedo. 2010. El Niño-Southern Oscillation effect on a fire regime in northeastern Mexico has changed over time. *Ecology* 91(6): 1660-1671. <https://doi.org/10.1890/09-0845.1>
1. van Dongen, W.F.D., and **L.L. Yocom**. 2005. Breeding biology of a migratory Australian passerine, the golden whistler (*Pachycephala pectoralis*). *Australian Journal of Zoology* 53: 213-220. <https://doi.org/10.1071/ZO04081>

### ***Peer-reviewed book chapters and reports***

2. Friggens, M., R. Loehman, A. Thode, W. Flatley, A. Evans, W. Bunn, C. Wilcox, S. Mueller, **L. Yocom**, and D. Falk. 2019. User guide to the FireCLIME Vulnerability Assessment (VA) tool: A rapid and flexible system for assessing ecosystem vulnerability to climate-fire interactions. Gen. Tech. Rep. RMRS-GTR-395. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 42 p.
1. Daniels, L.D., **L.L. Yocom Kent**, R.L. Sherriff, and E.K. Heyerdahl. 2017. Deciphering the complexity of historical fire regimes: diversity among forests of western North America. In: Amoroso, M., L. Daniels, P. Baker, J. Camarero (eds) *Dendroecology: Tree-Ring Analyses Applied to Ecological Studies*. Ecological Studies series (Analysis and Synthesis), vol. 231. Springer, Cham. [https://doi.org/10.1007/978-3-319-61669-8\\_8](https://doi.org/10.1007/978-3-319-61669-8_8)

### ***Articles and outreach publications not peer-reviewed***

8. **Yocom, L.** 2022. Low wildfire activity puts Utah lands further into fire deficit. Pages 22-23 in 2022 Report to the Governor on Utah's Land, Water, and Air. Utah State University, Logan, UT.
7. Lutz, J. A., T. Messmer, E. Thacker, **L. Yocom**, B. Chamberlain, and D. Hirshfeld. 2021. Land. Pages 16-29 in 2021 Report to the Governor on Utah's Land, Water, and Air. Utah State University, Logan, UT.
6. Mock, K., and **L. Yocom**. 2018. Aspen seedlings follow Brian Head fire. Western Aspen Alliance Tremblings Newsletter 9:2-3.

5. **Yocom Kent, L.L.** 2015. Climate change and fire in the Southwest. Working Papers in Southwestern Ponderosa Pine Forest Restoration #34. Published by Southwest Fire Science Consortium and Ecological Restoration Institute. Flagstaff, AZ.
4. **Yocom Kent, L.L.** 2014. An evaluation of fire regime reconstruction methods. Working Papers in Southwestern Ponderosa Pine Forest Restoration #32. Published by Southwest Fire Science Consortium and Ecological Restoration Institute. Flagstaff, AZ.
3. **Yocom, L.L.** 2013. Fuel treatment longevity: a summary of the science. Working Papers in Southwestern Ponderosa Pine Forest Restoration #27. Published by Southwest Fire Science Consortium and Ecological Restoration Institute. Flagstaff, AZ.
2. Falk, D.A., E.K. Heyerdahl, P.M. Brown, T.W. Swetnam, E.K. Sutherland, Z. Gedalof, **L. Yocom**, T.J. Brown. 2010. Fire and climate variation in western North America from fire-scar and tree-ring networks. *PAGES news* 18:70-72.
1. Cerano Paredes, J., J. Villanueva Díaz, P.Z. Fulé, P.M. Brown, **L.L. Yocom**, V. Constante García, J. Estrada Ávalos. 2009. Interpretación del historial de incendios en bosques mixtos de coníferas. Folleto Técnico 15. CENID-RASPA, Gómez Palacio, Mexico.

## **DATA CONTRIBUTIONS**

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- Yocom, L.L. and P.Z. Fulé. Fire data from Sierra Madre Oriental, Nuevo León, Mexico:  
 El Diferencial - IMPD MXDI-001. <https://www.ncdc.noaa.gov/paleo/study/21570>  
 Mesa Acuña - IMPD MXMA-001. <https://www.ncdc.noaa.gov/paleo/study/21571>  
 San Onofre - IMPD MXOZ6001. <https://www.ncdc.noaa.gov/paleo/study/21587>
- Yocom, L.L. and P.Z. Fulé. Fire data from Sierra Madre Oriental, Coahuila, Mexico:  
 La Armenia - IMPD MXLA-001. <https://www.ncdc.noaa.gov/paleo/study/21572>  
 Las Bateas 2- IMPD MXLB-001. <https://www.ncdc.noaa.gov/paleo/study/21573>  
 Las Manzanas - IMPD MXLM-001. <https://www.ncdc.noaa.gov/paleo/study/21574>  
 La Viga - IMPD MXLV-001. <https://www.ncdc.noaa.gov/paleo/study/21575>  
 Musgoso - IMPD MXMU-001. <https://www.ncdc.noaa.gov/paleo/study/21576>  
 Paraíso - IMPD MXPA-001. <https://www.ncdc.noaa.gov/paleo/study/21577>  
 Rancho Nuevo - IMPD MXRN-001. <https://www.ncdc.noaa.gov/paleo/study/21578>  
 Puerto el Tarillal - IMPD MXPU-001. <https://www.ncdc.noaa.gov/paleo/study/21579>  
 El Tarillal - IMPD MXET-001. <https://www.ncdc.noaa.gov/paleo/study/21580>
- Yocom, L.L. and P.Z. Fulé. Fire data from eastern Transvolcanic Belt, Puebla, Mexico:  
 Orizaba 1- IMPD MXOZ1001. <https://www.ncdc.noaa.gov/paleo/study/21581>  
 Orizaba 2- IMPD MXOZ2001. <https://www.ncdc.noaa.gov/paleo/study/21582>  
 Orizaba 3- IMPD MXOZ3001. <https://www.ncdc.noaa.gov/paleo/study/21583>  
 Orizaba 4- IMPD MXOZ4001. <https://www.ncdc.noaa.gov/paleo/study/21584>  
 Orizaba 5- IMPD MXOZ5001. <https://www.ncdc.noaa.gov/paleo/study/21585>  
 Orizaba 6- IMPD MXOZ6001. <https://www.ncdc.noaa.gov/paleo/study/21586>

## **PRESENTATIONS**

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### ***Invited presentations***

Yocom, L.L. and N. Mouallem. Nov. 19, 2024. Tree regeneration after reburns of high-severity fire patches. Association for Fire Ecology regional meeting, Santa Fe, NM.

Yocom, L.L., K. Nesbit, M. Kreider, and K. Mock. Aug. 28, 2024. Aspen as a fuel break & post-fire aspen seedlings. Lightning talk, Co-Stewardship of Quaking Aspen Workshop, Gothic, CO.

Yocom, L.L. Jan. 16, 2024. Graduate Seminar: Experiencias de la interacción fuego – ecosistema en Estados Unidos. ¿Posible extrapolación a España? University of Córdoba. Córdoba, Spain.

Yocom, L.L. Nov. 9 2023. Seminar: Incendio forestal: Proceso ecológico y problemática social. University of Córdoba. Córdoba, Spain.

Yocom, L.L., S. Kapel, M. Kreider, K. Mock, K. Nesbit. May 12, 2023. Aspen as a fuel break and post-fire aspen planting. Seminar on best practices for aspen management and relevant science, hosted by Grand Mesa Uncompahgre and Gunnison National Forests. (Presented remotely).

Yocom, L.L. Oct. 25, 2022. Seminar: Wildfire: an Ecological Process and a Management Problem. Westminster College Science Seminar Series. Salt Lake City, UT.

Yocom, L.L. March 16, 2022. Plenary talk: Fire ecology in Utah. Utah chapter of The Wildlife Society 2022 Annual Meeting. (Presented remotely).

Yocom, L. September 23, 2021. Wildfire: Avoiding human-wildfire conflict. Utah Association for Counties, Salt Lake City, UT.

Yocom, L.L. Nov. 26, 2019. Fuel Treatment Effectiveness in Utah. Utah CatFire Steering Committee Meeting, Salt Lake City, UT. (Presented remotely).

Yocom, L.L. Apr. 3, 2019. Presentation on current research. Climate Adaptation Science and the Ecology Center: Interdisciplinary Research Forum, Logan, UT.

Yocom, L.L. Feb. 6, 2019. New Research: Fuel Treatment Effectiveness in Utah. Utah All Lands-All Hands Summit, Salt Lake City, UT.

Yocom, L.L. Nov. 2, 2018. From fuel treatments to post-fire trajectories: New fire research in Utah. Utah Section, Society for Range Management 2018 Annual Meeting, Midway, UT.

Yocom, L.L. Oct. 18, 2018. Research on planned fuels treatment effectiveness research at the Utah BLM Prescribed Fire and Fuels Workshop, Logan, UT.



Yocom, L.L. Sept. 18, 2018. Fire in Utah. Presentation to the Natural Resources Coordinating Council, Logan, UT.

Yocom, L.L. June 7, 2018. Post-fire research, Brianhead Fire. Presentation at Intermountain Society of American Foresters Chapter Meeting, Cedar City, UT.

Yocom, L.L., A. Azpeleta Tarancón, J. Cerano Paredes, P.Z. Fulé, M. González Tagle, H.M. Poulos, and S.L. Stephens. May 22, 2018. Fire refugia in forests of Mexico: what do we know? Presentation in special session at the Fire Continuum Conference, Missoula, MT.

Yocom, L.L. Apr. 6, 2018. Keynote presentation, Intermountain Society of American Foresters Annual Spring Meeting, Logan, UT.

Yocom, L.L. Jan. 9, 2018. Research seminar at the Brown-Bag Luncheon Series, Utah Division of Wildlife Resources, Salt Lake City, UT.

Yocom, L.L. Oct. 19, 2017. Research presentation at the Utah BLM Prescribed Fire and Fuels Workshop, Logan, UT.

Yocom, L.L. Sept. 20, 2015. Fire Science and Art Series: public presentation at Coconino Center for the Arts as part of Flagstaff Festival of Science and Fires of Change art exhibition.

Yocom, L.L. Aug. 26, 2015. Climate change and fire in the Southwest. Webinar for scientists and managers, Southwest Fire Science Consortium.

Yocom, L.L., P.Z. Fulé, W.A. Bunn, E. Gdula. April 15, 2014. Fire history in mixed-conifer forest: Grand Canyon North Rim. Presentation to scientists and managers at Grand Canyon National Park, Grand Canyon, AZ.

Yocom, L.L. April 20, 2010. Clima e incendios. Public seminar, Ciudad Serdán, Puebla, Mexico.

Yocom, L.L. Nov. 10, 2009. El clima e incendios forestales en el norte de México. Public seminar, Universidad de Guadalajara, Mexico.

Yocom, L.L. Apr. 21, 2009. El clima, cambio climático, e incendios forestales en el norte de México. Public seminar, Universidad Autónoma Chapingo, Mexico.

Yocom, L.L. Dec. 3, 2008. Fires in northern Mexico: top-down or bottom-up control? School of Forestry Seminar Series, Flagstaff, AZ.

Yocom, L.L., P.Z. Fulé, P.M. Brown, D.A. Falk, J. Villanueva-Díaz, E. Cornejo-Oviedo. Feb. 25, 2008. Fire-climate interactions in Northern Mexico. Special colloquium, University of Arizona, Tucson, AZ.

## ***Contributed presentations***

Klimas, K., L. Yocom, B. Murphy, P. Belmont, S. Wall. Dec. 5, 2023. Predicting burn severity in Intermountain West forests, Utah, USA. 10th International Fire Ecology and Management Congress, Association for Fire Ecology. Monterey, CA.

Kapel, S., L. Yocom, K. Mock, O. Burney. Oct. 26, 2023. Seedling based aspen outplanting in burned areas across the Southwest. Society of American Foresters Annual Convention. Sacramento, CA.

Klimas, K., L. Yocom, B. Murphy, P. Belmont, S. Wall. April 21, 2023. Predicting burn severity: modeling fire effects in Intermountain West forests, Utah, USA. Society of American Foresters Intermountain Section Meeting.

Klimas, K., L.L. Yocom. 2022. Predicting burn severity: modeling fire effects in Intermountain West forests, Utah, USA. Society of American Foresters Annual Convention.

Trudgeon, A.M., L.L. Yocom, K. Nesbit, J. DeRose. 2022. Regeneration of quaking aspen (*Populus tremuloides*) after fire risk reduction treatments. IX International Conference on Forest Fire Research.

Trudgeon, A.M., Yocom, L.L., Nesbit, K., DeRose, R.J. 2022. Regeneration of quaking aspen (*Populus tremuloides*) after fire risk reduction treatments. Society of American Foresters Annual Convention.

Riley, K., C. Hay, J. Kim, P. Gao, A. Dye, L. Yocom, J. Rowe, and E. Kodra. 2022. Methods for handling uncertainty in climate change projections in fire simulation modeling. Fire & Climate conference, International Association of Wildland Fire.

Dye, A., P. Gao, K. Riley, J. Kim, L. Yocom. 2021. Shifts in Southern California simulated burn probability by mid-century under 8 climate change scenarios. 8th International Fire Ecology and Management Congress, Association for Fire Ecology.

Howe, A., S. Parks, L. Yocom. 2021. A comparison of Sentinel-2 and Landsat 8 for burn severity mapping in western North American forests. 8th International Fire Ecology and Management Congress, Association for Fire Ecology.

Kim, J., A. Dye, P. Gao, K. Riley, L. Yocom. 2021. Using GCM-based future climate data to drive a fire model: how much bias is too much? 8th International Fire Ecology and Management Congress, Association for Fire Ecology.

Kreider, M., L. Yocom. 2021. Aspen seedling establishment is widespread following recent fires in the western U.S. 8th International Fire Ecology and Management Congress, Association for Fire Ecology.

Nesbit, K., L. Yocom. 2021. Quantifying fuel characteristics and potential fire behavior along ecological gradients in aspen stands. 8th International Fire Ecology and Management Congress, Association for Fire Ecology.

Washa, B., J. Thompson, L. Yocom. 2021. Fuel treatment effectiveness in Utah. 8th International Fire Ecology and Management Congress, Association for Fire Ecology.

Chikamoto, Y., S.-Y.S. Wang, M. Yost, L. Yocom and R.R. Gillies. 2021. Multi-year predictability of Colorado River water supply using a drift-free decadal climate prediction system. EGU General Assembly (virtual).

Kreider, M., L. Yocom, K.E. Mock. 2020. Testing assumptions of western aspen seedling establishment. Ecological Society of America Annual Meeting (virtual).

Thode, A., L. Yocom, J.M. Iniguez, R. Loehman. 2020. Managing for subsequent fires: Considering how re-burns will impact forest regeneration. Ecological Society of America Annual Meeting (virtual).

Dangerfield, C., S. Voelker, L. Yocom. 2020. Impacts of road disturbance on old growth coast redwood forests. Ecological Society of America Annual Meeting (virtual).

Thompson, J., L. Yocom. 2020. Characterizing fuel treatment effectiveness in Utah. Ecological Society of America Annual Meeting (virtual).

Howe, A., L. Yocom. 2020. Wildfire severity in the western US: Quantifying the scale of heterogeneity and sensitivity to imagery resolution. Ecological Society of America Annual Meeting (virtual).

Yocom, L.L., D. Falk, A. Thode, M. Crimmins, R. Loehman, and W. Flatley. Nov. 21, 2019. Gradients of productivity and flammability drive fire regimes in the Southwest US. Association for Fire Ecology 8<sup>th</sup> International Fire Ecology and Management Congress, Tucson, AZ.

Fulé, P.Z., V. Hess, L. Yocom, C. Cortés Montaña. Nov. 20, 2019. Mexican forest species and fire regimes are of increasing relevance to the southwestern US as climate warms. Association for Fire Ecology 8<sup>th</sup> International Fire Ecology and Management Congress, Tucson, AZ.

Dye, A., P. Gao, K. Riley, J. Kim, L. Yocom. Nov. 20, 2019. Examining Southern California wildfire using a stochastic large-fire simulation model. Association for Fire Ecology 8<sup>th</sup> International Fire Ecology and Management Congress, Tucson, AZ.

Yocom, L., D. Falk, A. Thode, M. Crimmins, R. Loehman, W. Flatley. June 25, 2019. Gradients of productivity and flammability drive fire regimes in the SW US. North American Forest Ecology Workshop, Flagstaff, AZ.

Mock, K.E., S.L. Landhäusser, O. Burney, L. Yocom. June 25, 2019. The case for restoration with aspen seedlings in post-fire landscapes. North American Forest Ecology Workshop, Flagstaff, AZ.

Murphy, B.P., L.L. Yocom, and P. Belmont. Dec. 11, 2018. Beyond the 1984 perspective: narrow focus on modern wildfire trends underestimates future risks to water security. American Geophysical Union Fall Meeting 2018, Abstract H21F-07.

Yocom, L.L., J. Jenness, P. Fulé, A. Thode. Dec. 1, 2017. Previous fires influence subsequent fire growth and severity in Arizona and New Mexico. Association for Fire Ecology International Congress, Orlando, FL.

Yocom, L.L., J. Jenness, P. Fulé, A. Thode. Sept. 13, 2017. Previous fires and roads limit wildfire growth in Arizona and New Mexico. Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.

Yocom Kent, L., K. Ogle, Y. Liu, P. Szejner, R.K. Monson, and D. Peltier. Sept. 13, 2017. Tree growth response to climate varies across a monsoon precipitation gradient. Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.

Peltier, D., J. Guo, K. Samuels-Crow, L. Yocom-Kent, Y. Liu, W. Anderegg, M. Fell, G. Koch, and K. Ogle. Sept. 13, 2017. Differential growth responses of pinyon and juniper during El Niño and La Niña periods. Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.

Yocom, L.L., K. Ogle, Y. Liu, P. Szejner, R.K. Monson, D. Peltier. Aug. 8, 2017. Tree growth response to climate varies across a monsoon precipitation gradient. Ecological Society of America Annual Meeting, Portland, OR.

Yocom, L.L., P.Z. Fulé, W.A. Bunn, E.G. Gdula. Nov. 19, 2015. Historical high-severity fire patches in mixed-conifer forests, Grand Canyon National Park. Association for Fire Ecology International Congress, San Antonio, TX.

Yocom, L.L. Nov. 17, 2015. Wildfire as Fuel Treatment: Effects on Subsequent Fire Size in the Southwest. Association for Fire Ecology International Congress, San Antonio, TX.

Yocom, L.L., P.Z. Fulé, W.A. Bunn, E. Gdula. Sept. 18, 2013. Historical mixed-severity fire in high-elevation conifer forest, Grand Canyon North Rim. Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.

Yocom, L.L., P.Z. Fulé, W.A. Bunn, E. Gdula. May 14, 2013. Historical mixed-severity fire in high-elevation conifer forest, Grand Canyon North Rim. AmeriDendro Conference, Tucson, AZ.

Yocom, L.L., P.Z. Fulé, D.A. Falk, P.M. Brown, J. Villanueva-Díaz, J. Cerano, E. Cornejo-Oviedo, C. Cortés Montaña. Dec. 4, 2012. Climate and land-use drivers of historical fires in northern Mexico. Association for Fire Ecology International Congress, Portland, OR.

Yocom, L.L., P.Z. Fulé, D.A. Falk, P.M. Brown, J. Villanueva-Díaz, J. Cerano, E. Cornejo-Oviedo, C. Cortés Montaña. Mar. 1, 2012. Climate and land-use drivers of historical fires in northern Mexico. Association for Fire Ecology regional meeting, Santa Fe, NM.

Yocom, L.L., P.Z. Fulé, M. Wagner, R. Sheridan. Oct. 25, 2011. Summer Institute on Environmental Stewardship for European Student Leaders. Conference of Research on the Colorado Plateau, Flagstaff, AZ.

Yocom, L.L., P.Z. Fulé, D.A. Falk, E. Cornejo-Oviedo. Dec. 15, 2011. Fine-scale factors drive variation in fire characteristics in northeastern Mexico. American Geophysical Union Fall Meeting, San Francisco, CA.

Yocom, L.L., P. Z. Fulé, P. M. Brown, J. Cerano, J. Villanueva-Díaz, D. A. Falk, E. Cornejo-Oviedo. Dec. 4, 2009. Effects on El Niño-southern oscillation on fire regime changed over time in northeastern Mexico. Association for Fire Ecology International Congress, Savannah, GA.

Yocom, L.L., P.Z. Fulé, P.M. Brown, J. Cerano, J. Villanueva-Díaz, D.A. Falk, E. Cornejo-Oviedo. Aug. 6, 2009. Effects on El Niño-southern oscillation on fire regime changed over time in northeastern Mexico. Ecological Society of America (ESA) 94th Annual Meeting, Albuquerque, NM.

Yocom, L.L., P.Z. Fulé, P.M. Brown, D.A. Falk, J. Villanueva-Díaz, E. Cornejo-Oviedo. Jan. 30, 2008. Fire-climate interactions in Northern Mexico. Association for Fire Ecology regional meeting, Tucson, AZ.

## ***Posters***

Mouallem, N., L. Yocom. Dec. 5, 2023. Reburns of high severity patches: Effects on ponderosa pine regeneration and plant community composition. 10th International Fire Ecology and Management Congress, Association for Fire Ecology. Monterey, CA.

Klimas, K., L. Yocom. Dec. 3, 2021. Fuel treatment effects on fuels and modeled fire behavior in high elevation forests, Utah, USA. 8th International Fire Ecology and Management Congress, Association for Fire Ecology. **1<sup>st</sup> Place, student poster competition.**

Boone, R.D., L. Yocom, D. Peltier, and K. Ogle. Aug. 2-6, 2021. Do differences in climate memory align with which trees live and die during or after a severe drought? Ecological Society of America Annual Meeting (virtual).

Gray, C.A., L.L. Yocom, and R.D. Ramsey. Aug. 3, 2020. Mapping the percentage of aspen in Utah forests using multivariate analysis. Ecological Society of America Annual Meeting (virtual).

Kreider, M., L. Yocom, and K. Mock. Nov. 19, 2019. Post-fire aspen seedling survival reduced by competition. Association for Fire Ecology 8<sup>th</sup> International Fire Ecology and Management Congress, Tucson, AZ. **1<sup>st</sup> Place, student poster competition.**

Howe, A. and L. Yocom. Nov. 19, 2019. Quantifying the heterogeneity of burn severity. Association for Fire Ecology 8<sup>th</sup> International Fire Ecology and Management Congress, Tucson, AZ. **3<sup>rd</sup> Place, student poster competition.**

Thompson, J. and L. Yocom. Nov. 19, 2019. Fuel treatments and wildfire interactions in Utah: Preliminary findings. Association for Fire Ecology 8<sup>th</sup> International Fire Ecology and Management Congress, Tucson, AZ.

## **GRANTS**

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- 2025-2028** NIFA National Needs Fellowships Program. DeRose, J., **L. Yocom**, J. Lutz, B. Washa, D. McAvoy. Managing USDA wildfire crisis strategy landscapes in the Intermountain West (Region 4): A program for training future forest managers.
- 2025-2029** CalFire Forest Health Research Program. Murphy, B., P. Belmont, S. David, **L. Yocom**, B. Lane, A. Moraes, and D. Lindsay. Predicting burn severity and runoff response for pre-fire watershed assessment in California.
- 2025-2026** Colorado Department of Transportation (CDOT). Lane, B.A., **L.L. Yocom**, and P. Belmont. Planning and mitigation for direct post-wildfire sediment hazards to transportation infrastructure.
- 2023-2025** U.S. Geological Survey. **Yocom, L.L.** and K. Mock. Aspen seedling success due to post-fire microsite variability.
- 2023-2025** Kennecott Rio Tinto. LaMalfa, E.M., J.B. Washa, E.T. Thacker and **L.L. Yocom**. Rio Tinto Fuels Research.
- 2023-2024** Canyonlands Natural History Association. **Yocom, L.L.** Assessing the health and vulnerability of scattered old-growth Ponderosa Pine in southern Utah.
- 2022-2023** U.S. Geological Survey. Garfin, G., R. Ambrose, R. Clemesha, E. Fleishman, A. Gershunov, G. MacDonald, K. Mock, B. Udall, and **Yocom, L.L.** Actionable science to understand the effects of recent temperature increases to inform natural resources management in the southwestern United States.
- 2022-2023** John Wesley Powell Center for Analysis and Synthesis. PIs: Margolis, E., C. Guiterman, R. Loehman, and S. Parks. Working group: J. Abatzoglou, L. Daniels, D. Falk, K. Kipfmüller, M. Krawchuk, J. Portier, M. Stambaugh, J. Villanueva-Diaz, E. Whitman, A.P. Williams, and **L. Yocom**. Synthesis of the new North

American tree-ring fire-scar network: Using past and present fire-climate relationships to improve projections of future wildfire.

- 2021-2022** Mountain Regional Water. **Yocom, L.L.** and P. Belmont. Evaluating fuel treatment efficacy in reducing risk of high-severity fire and downstream impacts in the Rockport Reservoir watershed.
- 2021-2022** Utah Division of Wildlife Resources. Avgar, T. and **L.L. Yocom**. Wildlife space-use and post-fire habitat dynamics.
- 2020-2023** Joint Fire Science Program. **Yocom, L.L.**, B.P. Murphy, and P. Belmont. Evaluating fuel treatment efficacy in reducing risk of high-severity fire and downstream impacts.
- 2020-2022** Utah Division of Forestry, Fire and State Lands. **Yocom, L.L.**, J. DeRose, and D. McAvoy. Evaluating aspen regeneration methods for effectiveness and efficiency in Utah.
- 2019-2020** Utah Agricultural Experiment Station Seed Grant Program. **Yocom, L.L.**, J.A. Lutz, K.M. Mock, and D.R. Ramsey. Mapping aspen forests in Utah.
- 2019-2020** Utah BLM, USFS Region 4, Utah FFSL, and Quinney Foundation. **Yocom, L.L.**, J.A. Lutz. Fuel treatment effects on fire outcomes in Utah.
- 2018-2020** Utah Agricultural Experiment Station Seed Grant Program. Lutz, J.A., **L.L. Yocom**. Evolution of heavy surface fuels following bark beetle outbreaks and fire and their contribution to subsequent risk.
- 2018-2019** Utah Department of Natural Resources. Mock, K.M., **L.L. Yocom**. Restoration on the Brian Head fire using aspen seedlings.
- 2018** Utah Agricultural Experiment Station Equipment Grants Program. **Yocom, L.L.**
- 2015-2018** Joint Fire Science Program. Thode, A.E., A. Bradley, W. Bunn, Z. Evans, D. Falk, W. Flatley, M. Friggens, P. Fulé, D. Gori, S. Hedwall, R. Keane, R. Loehman, J. Triepke, C. Wilcox, and **L. Yocom**. Landscape impacts of fire and climate change in the Southwest: A science-management partnership.
- 2014-2016** Joint Fire Science Program. **Yocom, L.L.**, A.E. Thode, P.Z. Fulé, J. Iniguez, M. Lata, W. Hall, T. Nicolet. Wildfire effects on subsequent wildfire ignition, severity, and management in the Southwest: applying massive data sets to address management questions.
- 2011-2013** National Park Service Reserve Fund. Fulé, P. Z., **L.L. Yocom**. Comparing modern and historical high-elevation fire regimes at Grand Canyon.

- 2011** U.S. State Department Bureau of Educational and Cultural Affairs. Fulé, P. Z., M.R. Wagner, **L.L. Yocom**. Summer Institute on Environmental Stewardship in the American Southwest.
- 2010** National Science Foundation. **Yocom, L.L.** Doctoral Dissertation Enhancement Project: Exploring climatic and human drivers of fire regime in a high-elevation Mexican forest.
- 2005** Teresa Heinz Scholarship for Environmental Science. **Yocom, L.L.** Bird perching and visitation preference among native planted trees in Panama.
- 2005** Tropical Resources Institute. **Yocom, L.L.** Bird perching and visitation preference among native planted trees in Panama.

## **TEACHING**

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**2022** Quinney College of Natural Resources Teacher of the Year

### ***Courses: Utah State University***

WILD 6900: Fire Ecology, 3 credits, graduate students (Fall 2019, 2021, 2024)  
 WILD 5710: Forest Vegetation Disturbance Ecology & Management, 3 credits, undergraduate/graduate students (Fall 2017, 2018, 2020, 2021, 2022)  
 WILD 5100: Forests and Fuels Measuring & Modeling, 3 credits, undergraduates (Fall 2024)  
 WILD 3100: Introduction to Wildland Fire, 3 credits, undergraduates (Fall 2018, 2019, 2020, 2021, 2022, 2024)  
 WILD 4960: Directed reading course, 1 credit, Etta Crowley (Fall 2017)  
 WILD 4960: Directed reading course, 2 credits, Jonathan Cooper (Fall 2018)

### ***Courses: Northern Arizona University***

FOR 382/582: Ecological Restoration Applications, undergraduate/graduate students (Fall 2013)  
 FOR 317: Silviculture and Fire Applications, professionals (Spring 2013)  
 FOR 251: Introduction to Wildland Fire, undergraduates (Spring & Fall 2011, Spring 2012)  
 FOR 449: Fire Modeling & Monitoring, undergraduates (Spring 2012)  
 FOR 351: Fire Modeling and Monitoring for Professionals, professionals (Fall 2015)  
 FOR 450: Fire Ecology for Professionals, professionals (Spring 2012, 2015)  
 FOR 310: Forest Ecology for Professionals, professionals (Fall 2011, 2015)  
 FOR 101: Forestry 101, undergraduates [forest ecology module, 3 sections] (Fall 2011, 2012)  
 FOR 517: Dendroecology: Applied Tree-ring Analysis (co-taught), graduate students (Fall 2009)

### ***Guest lectures***

Yale School of the Environment ENV 650b: Seminar in Wildland Fire Ecology and Management. Feb. 20, 2023 and Feb. 12, 2025.



USU CAS 6001: Climate Adaptation Sciences Interdisciplinary Research Colloquium. Oct. 13, 2020.

USU WATS 3700: Fundamentals of Watershed Science. April 10, 2019 and April 20, 2018.

USU WILD 2200: Ecology of our Changing World. Nov. 16, 2021, Oct. 27, 2020 and Nov. 5, 2019.

USU WILD 2400: Wildland Resource Techniques. Sept. 26, 2019, Sept. 13, 2018 and Sept. 28, 2017.

NAU FOR 517: Dendroecology. Sept. 28, 2015.

NAU FOR 230: Multicultural Perspectives of Natural Resource Management. April 21, 2016 and April 21, 2015.

NAU FOR 251: Introduction to Wildland Fire. Mar. 8, 2016, Jan. 26, 2016, Oct. 8, 2015, Feb. 19, 2015, Sept. 23, 2014, Mar. 6, 2014, Oct. 10, 2013, Feb. 26, 2013, Oct. 2, 2012, Oct. 5, 2010, and Sept. 29, 2009.

NAU ENV 544: Landscape Ecology. April 10, 2014, April 3, 2012 and Mar. 25, 2010.

NAU ENV 550: Historical Ecology. Oct. 15, 2013.

NAU FOR 382/582: Ecological Restoration Applications. Sept. 15, 2015, Sept 11, 2012, Sept. 7, 2010 and Sept. 1, 2009.

NAU FOR 451/551: Fire Ecology and Management. March 3, 2015, Jan. 22, 2015, April 11, 2013, Feb. 26, 2013, Sept. 13, 2010 and Jan. 26, 2010, Feb. 12, 2009, and Jan. 29, 2009.

NAU FOR 520: Forest Stand Dynamics. Jan. 28, 2010.

NAU FOR 212: Trees and Forests of North America. 2008.

## ***Teaching Development***

2024 Sparkshop: short workshop on active learning and fostering collaboration

2023 Sparkshop: short workshop on active learning

2022 Sparkshop: short workshop on ungrading for better learning outcomes

2021 Learning Circle: Read and Discussed Ungrading: Why Rating Students Undermines Learning (and What to Do Instead)

2021 Learning Circle: Read and Discussed Distracted: Why Students Can't Focus and What You Can Do About It

2021 Received feedback on Teaching Statement from USU Empower Teaching staff

2020 Training: Web Broadcast Teaching Tips

2020 Training: Getting Started With Zoom

2020 Training: eLearnX: Experiential Training for Digital-Age Teaching

2019 USU Planetary Thinking workshop: develop curriculum on sustainability

2018 Revamp your research assignment: An interdisciplinary faculty workshop

2018 Teaching Portfolio workshop

2017 Attended Empowering Teaching Excellence conference

2017 Training: Empowering Teaching Excellence: Foundations of USU Teaching

## **MENTORING AND ADVISING**

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### ***Graduate Student Advising***

#### **Current**

Alexander Howe, PhD, 2018 – Present  
Kirstie Kandaris, MS (co-advised), 2023 – Present  
Kipling Klimas, PhD, 2020 – Present  
Annie Prescott, MS (co-advised), 2023 – Present

#### **Completed**

Nadav Mouallem, MS, 2022 – 2024  
Sarah Kapel, MS (co-advised), 2022 – 2023  
Megan Whetzel, MS (co-advised), 2021 – 2023  
Kristin Nesbit, MS, 2020 – 2022  
Jamela Thompson, MS, 2019 – 2022  
Mark Kreider, MS, 2018 – 2020  
Cody Dangerfield, MS (co-advised), 2019 – 2020

### ***Graduate Student Committees***

#### **Current**

Justin Allred (PhD, 2023 – present, USU Plants, Soils & Climate)  
Erika Blomdahl (PhD, 2021 – present, USU Wildland Resources)  
Rory Eggleston (PhD, 2022 – present, USU Wildland Resources)  
Will Harrod (MS, 2023 - present, USU Wildland Resources)  
Cameron Shaughnessy (MNR, 2020 – present, USU Wildland Resources)  
Casey Snider (PhD, 2024 – present, USU Wildland Resources)  
Soren Struckman (PhD, 2022 – present, USU Wildland Resources)  
Alex Walt (MS, 2023 – present, USU Watershed Sciences)

#### **Completed**

Brooke Richards (MS, 2023 – 2024, USU Environment & Society)  
Tyson Terry (PhD, 2020 – 2023, USU Wildland Resources)  
Allie Trudgeon (MS, 2020 – 2022, USU Wildland Resources)  
Alec Arditti (PhD, 2021 – 2022, USU Watershed Sciences)  
Jaycee Cappaert (MS, 2021 – 2022, USU Wildland Resources)  
April Phinney (MS, 2020 – 2022, USU Geosciences)  
Kendall Becker (PhD, 2017 – 2022, USU Wildland Resources)  
Devin Macfarlane (MLA, 2021 – 2022, USU Landscape Architecture & Env. Planning)  
Mira Ensley-Field (MS, 2020 – 2021, USU Wildland Resources)  
Sara Wall (MS, 2020 – 2021, USU Watershed Sciences)  
Tucker Furniss (PhD, 2018 – 2021, USU Wildland Resources)  
Lauren Dupey (PhD, 2017 – 2020, USU Environment & Society)  
Andrew Kennedy (MS, 2019 – 2020, University of Utah)  
Natalie Gillard (MS, 2018 – 2019, USU Watershed Sciences)

Stephanie Mueller (MS, 2017 – 2019, Northern Arizona University)  
Lisa Dowling (MS, 2013 – 2015, Northern Arizona University)

### ***Undergraduate research mentoring***

Emily Lane (2022-2023, USU, awarded Undergraduate Research & Creative Opportunity grant)  
Emily Lowrimore (2021, USU, awarded Undergraduate Research & Creative Opportunity grant)  
Allysia Hammond (2021, USU, WILD summer practicum)  
Elyse Doty (2019, USU, awarded Undergraduate Research & Creative Opportunity grant)  
Philisha Clah (2013, NAU)

### **PROFESSIONAL MEMBERSHIPS**

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Association for Fire Ecology  
Ecological Society of America  
Society of American Foresters

### **PRESS**

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“Understanding threats to old growth ponderosa pines” Science Moab radio piece and podcast, Oct. 15, 2024. <https://sciencemoab.org/understanding-threats-to-old-growth-ponderosa-pines/>

“Priceless seeds, sprouts key to US West’s post-fire future” AP News article by Susan Montoya Bryan, May 22, 2022. Distributed to and published by news outlets around the West including KSL, Salt Lake City, and Santa Fe New Mexican. <https://apnews.com/article/wildfires-science-fires-climate-and-environment-5723513abe8652b31261e1c4ba9436ad>

“Good fires vs. bad fires: USU researcher says we can't stop wildfires altogether, but we can try to make sure they're beneficial” Herald Journal news article by Steve Kent, June 21, 2021. [https://www.hjnews.com/news/education/good-fires-vs-bad-fires-usu-researcher-says-we-cant-stop-wildfires-altogether-but-we/article\\_ecf0f32b-c4a1-5037-ae4a-26ff3c18075e.html](https://www.hjnews.com/news/education/good-fires-vs-bad-fires-usu-researcher-says-we-cant-stop-wildfires-altogether-but-we/article_ecf0f32b-c4a1-5037-ae4a-26ff3c18075e.html)

“USU professor to discuss fire in the West” Cache Valley Daily news article by Craig Hislop, June 22, 2021. <https://www.cachevalleydaily.com/news/archive/2021/06/22/usu-professor-to-discuss-fire-in-the-west/#.YNSa46hKj-g>

“New tool tests management strategies for ecosystem resilience” USDA blog post by Diane Banegas, Feb. 19, 2020. Featured on [usda.gov](https://usda.gov) home page and archived at <https://www.usda.gov/media/blog/2020/02/19/new-tool-tests-management-strategies-ecosystem-resilience>

“The aftermath of us” Article in Utah State Magazine by Kristen Munson. Fall 2019 issue. <https://utahstatemagazine.usu.edu/environment/the-aftermath-of-us/>

“Language around West’s ‘unprecedented’ wildfires often lacks context, study says” Audio and web story produced by Mountain West News Bureau by Matt Bloom. Nov. 1, 2018.  
<https://www.kunc.org/post/language-around-west-s-unprecedented-wildfires-often-lacks-context-study-says#stream/0>

“A year after southern Utah’s Brian Head Fire, the aspens are bouncing back in a surprising way that could strengthen the forest” Salt Lake Tribune article by Brian Maffly. Oct. 22, 2018.  
<https://www.sltrib.com/news/environment/2018/10/22/year-after-southern/>

“Aspen seedlings on the Brian Head fire footprint” Audio and web-supported article produced by Wild About Utah, a Utah Public Radio production. Oct. 1, 2018.  
<https://wildaboututah.org/aspen-seedlings-on-the-brian-head-fire-footprint/>

## **SERVICE**

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### ***Service to the profession***

Manuscript reviewer for: Biogeosciences, Biological Conservation, Canadian Journal of Forest Research, Dendrochronologia, Ecosphere, Ecosystems, Fire Ecology, Forest Ecology and Management, Frontiers in Ecology and the Environment, International Journal of Wildland Fire, Journal of Ecology, Journal of Geophysical Research Biogeosciences, Journal of Vegetation Science, Nature Climate Change, Nature Communications, PLOS ONE, Science of the Total Environment, USGS pre-review

2024 – present: Board member, Southern Rockies Fire Science Network  
2022 – present: Committee member, Association for Fire Ecology Education Committee  
2021 – present: Associate Editor, *Fire Ecology*  
2019 – present: Advisory committee member, Great Basin Fire Science Exchange  
2021: Joint Fire Science Grant Proposal Reviewer  
2018 and 2019: Reviewed Utah CatFIRE proposals as Forest & Rangeland Ecology Subject Matter Expert  
2015: Moderated session at Colorado Plateau Conference, Flagstaff, AZ  
2012: Volunteer group leader (Dendroecology) for 22nd Annual North American Dendroecological Fieldweek

### ***Campus Service***

#### Current committees

2024 – present: P&T Committee, Miles Becker, Dept. of Wildland Resources  
2019 – present: Committee member, USU Forest Ecology & Management curriculum committee  
2018 – present: Founding Advisor and Faculty Advisor, USU Fire Club

### Prior committees or one-time service roles

2024 – 2025: Chair, WILD faculty search committee, USU  
2024: Committee chair, UFRI Program Manager search committee, USU  
2017 – 2023: Restoring the West planning committee, USU  
2022: Committee member, WILD faculty search committee, USU  
2022: Review of manuscript submitted to USU Extension  
2021: Committee member, WILD faculty search committee, USU  
2017 – 2021: QCNR Undergraduate research committee, USU  
2020 and 2021: WILD Presidential Doctoral Research Fellowship selection committee  
2019: QCNR Graduate School Forum panelist  
2019: Committee member, USU Undergraduate Researcher of the Year Selection Committee  
2018: Committee member, WILD faculty search committee, USU  
2013: Committee member, NAU School of Forestry Post-doctoral Scholar Search Committee  
2012: Committee member, NAU School of Forestry Faculty Search Committee  
2012: Volunteer judge for Undergraduate Research and Design Symposium, NAU

### ***Outreach***

2025: Interviewed for Utah Statesman article  
2025: Interviewed for This Green Earth live podcast  
2024: Interviewed for Science Moab podcast  
2024: Spoke to Utah NRCS leadership team on Climate Threats to Forests in Utah  
2022: Panel member for 2022 Institute for Land Water and Air Report to Governor release event  
2022: Interviewed for ABC4 (Salt Lake City) news story  
2021: Presented USU *Research Landscapes* seminar to Utah decision-makers  
2021: Interviewed for *Voice of America* story about another research group's publication  
2021: Interviewed for USU *Research Landscapes* podcast  
2021: Interviewed on Utah Public Radio program *Access Utah* on "Wildfires in the West"  
2020: Interviewed on webinar Wildland Stories: Fire Ecology, USU Forestry Extension  
2020: Gave interview for US Forest Service outreach videos on fire ecology & prescribed fire  
2020: Presented Fire & Climate Adaptation pre-workshop webinar for SW forest managers  
2019: Organized group of experts and presented information to Utah legislator on fire in Utah  
2019: Invited presentation on fire and forest health to Utah Legislature Clean Air Caucus  
2017: Trained Flagstaff Arboretum docents on "Forest Health, Fire Ecology, & Ponderosa Pine"  
2013, 2015, 2016: Ecology lab activity for Upward Bound high school students, Flagstaff  
2013: Contributed to Peach Springs all-day 4th grade field trip to Hualapai forest, Arizona

### **MISCELLANEOUS**

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Advanced Spanish  
Wilderness First Responder (2009-Present)  
Certified Firefighter Type 2 ('red card') (2008-2017)