

# Michael R. Coughlan, Ph.D.

Institute for Resilient Organizations, Communities, and Environments  
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## Education

Ph.D. 2013, Anthropology, University of Georgia, Athens, Georgia.  
M.A. 2003, Anthropology *with distinction*, Northern Arizona University, Flagstaff, Arizona.  
B.A. 1996, Anthropology, *honors*, Middlebury College, Middlebury, Vermont.

**Research Interest & Expertise:** Human dimensions of fire, historical fire ecology, socioecological systems, landscapes (human ecology), interdisciplinary environmental science, qualitative and quantitative social science research methods, geospatial analysis (GIS).

## Professional Appointments

### University of Oregon

2022-Current: Assistant Research Professor, Institute for Resilient Organizations, Communities, and Environment (IROCE).

2022-Current: Associate Director of the Ecosystem Workforce Program (EWP).

2021-2022: Faculty Research Associate, Museum of Natural and Cultural History.

2018-2022: Faculty Research Associate, Institute for a Sustainable Environment.

### University of Georgia

2018-Current: Adjunct Faculty Researcher, Department of Anthropology.

2015-2018: Post-doctoral Research Associate, Department of Anthropology. Human-Critical Zone interactions. Calhoun Critical Zone Observatory (CZO).

2013-2014: Post-doctoral Research Associate, Department of Anthropology. Coweeta Long Term Ecological Research Project (LTER).

2015: Instructor, Department of Anthropology, University of West Georgia, Carrollton, Georgia.

2014: Instructor, Department of Anthropology, University of Georgia, Athens, Georgia.

2012-2013: Graduate Research Assistant, Coweeta LTER, University of Georgia.

2010: Graduate Research Assistant, Department of Anthropology, University of Georgia.

2007-2010: Graduate Teaching Assistant, Department of Anthropology, University of Georgia.

## Other Positions and Experience

2006-2007: Archaeologist, Cartographer/Spatial Analyst, Westland Resources, Tucson, Az. Developed archaeological mapping protocol for relational geo-database (Access, AutoCAD Map, ArcGIS). Excavation/data recovery, pedestrian survey, site recordation, field mapping with total station and GPS, report writing.

2005: Surveyor's Assistant: Hollister Associates Mapping, Old Forge, NY. Geo-location of parcel property boundaries, map with total station.

2003-2004: Archaeologist, USDA Forest Service, Medicine Bow-Routt National Forest, Wyo. Crew supervisor, trained and led archaeological crew in pedestrian survey and site recordation, developed protocol recording historic aspen carvings, report writing. Fireline archaeological survey.

2003: Archaeologist, National Park Service, Tuzigoot National Monument, Az. Developed archaeological protocols and training materials and for documenting prehistoric ruins stabilization efforts, report writing.

2002-2003: Archaeologist, Northern Arizona University Contract Archaeology, Flagstaff, Az. Conducted pedestrian survey, site recordation, report writing.

2002. Cultural Resources Specialist, Glen Canyon Institute, Flagstaff, Az. Website development, report writing, facilitation and coordination of environmental justice materials.

2001-2003. Anthropological Consultant, Center for Sustainable Environments, Flagstaff, Az. GIS and report writing for agricultural revitalization and environmental justice.

2000-2001. Archaeological Technician USDA Forest Service, Kaibab National Forest, Az. Crew leader, trained and lead crew in pedestrian survey and site recordation. Report writing, GIS, fireline archaeological survey, fire suppression activities.

2000. Americorps Member (Coconino Rural Environment Corps), Flagstaff, Az. Assistant crew leader in ecological restoration activities (forest thinning, exotic/invasive vegetation removal), trail building, preventative search and rescue (Grand Canyon NP).

### Peer Reviewed Publications

39. Gragson, T., and **M. Coughlan**. 2024. The social-ecological landscape of herding on the high mountain commons of Larrau in the western Pyrenees (France). *Frontiers in Human Dynamics* 6: 1359845. <https://doi.org/10.3389/fhumd.2024.1359845>

38. Deak, Alison, M. Lucash, **M. Coughlan**, S. Weiss, L. Silva. 2024. Prescribed fire placement matters more than increasing frequency and extent in a simulated Pacific Northwest landscape. *Ecosphere* 15 (4). <https://doi.org/10.1002/ecs2.4827>

37. Johnston, James D., M.R. Schmidt, A.G. Merschel, W.M. Downing, **M. Coughlan**. 2023. Exceptional variability in historical fire regimes across a western Cascades landscape, OR, USA. *Ecosphere*. <https://doi.org/10.1002/ecs2.4735>

36. **Coughlan, M.**; H. Huber-Stearns, M.D.O. Adams, G. Kohler, A. Rhodewalt. *In Press*. Ten Nonmetropolitan, Forest-based Communities in the Northwest Forest Plan area, a comparative case study approach. In: Grinspoon, E., ed. Northwest Forest Plan—the first 25 years (1994–2018): socioeconomic monitoring results. Gen. Tech. Rep. PNW-GTR-xxx. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. xx p.

35. **Coughlan, M.**, H. Huber-Stearns, B. Clark, and A. Deak. 2023. Public responses to wildfire smoke in Oregon. In E. Fleishman, editor. Sixth Oregon Climate Assessment. Oregon Climate Change Research Institute, Oregon State University, Corvallis, Oregon. [doi.org/10.5399/osu/1161](https://doi.org/10.5399/osu/1161)

34. Silva, L., M. Wood, B. Johnson, **M. Coughlan**, H. Brinton, K. McGuire, S. Bridgham. 2022. A generalizable framework for enhanced natural climate solutions. *Plant and Soil*, 1-22. [doi.org/10.1007/s11104-022-05472-8](https://doi.org/10.1007/s11104-022-05472-8)

33. **Coughlan, M.**, D. Leigh, T. Gragson, M. Le Couédic. 2022. Holocene anthropization of mid-elevation landscapes around Pic d'Orhy, Western Pyrenees. Chapter contribution in: *Archaeology Of Mountain*

Landscapes: Interdisciplinary Research Strategies Of Agro-Pastoralism In Upland Regions. Institute of Mediterranean and European Archaeology. SUNY Press, Binghamton, New York.

32. Snitker, G.; C. Roos, A. Sullivan, S. Maezumi, D. Bird, **M. Coughlan**, K. Derr, L. Gassaway, A. Klimaszewski-Patterson, R. Loehman. 2022. A collaborative agenda for archaeology and fire science. *Nature Ecology and Evolution*. <https://doi.org/10.1038/s41559-022-01759-2>.
31. Westphal, L.; M. Dockry; L. Kenefic; S. Sachdeva; A. Rhodeland; D. Locke; C. Kern; H. Huber-Stearns; and **M. Coughlan**. 2022. USDA Forest Service Employee Diversity During a Period of Workforce Contraction. *Journal of Forestry*, <https://doi.org/10.1093/jofore/fvab071>.
30. **Coughlan, M.**; Huber-Stearns, H.; Adams, M.D.O.; Rhodewalt, A. 2021. Socioeconomic trajectories of 10 rural federal forest-based communities in the American Pacific Northwest. *Society and Natural Resources*, 35 (1), 38-58. <https://doi.org/10.1080/08941920.2021.2019358>.
29. Santo, A , **M. Coughlan**, H. Huber-Stearns, M.D.O. Adams, and G. Kohler. 2021. Changes in relationships between the USDA Forest Service and small, forest-based communities in the Northwest Forest plan area amid declines in agency staffing. *Journal of Forestry* 119, no. 3 (2021): 291-304. [doi.org/10.1093/jofore/fvab003](https://doi.org/10.1093/jofore/fvab003).
28. **Coughlan, M.**, H. Huber-Stearns, C. Shultz. 2021. Piloting a Climate-Change Adaptation Index on US National Forest lands. *Journal of Forestry* 119 (6): 557-563.
27. Gragson, T., **M. Coughlan**, D. Leigh. 2021. Response Diversity and the Evolution of Pastoral Landscapes in the Western Pyrenees. In "Transhumance: Papers from the International Association of Landscape Archaeology Conference, Newcastle upon Tyne, 2018" Bowden, M. and Herring, P. eds. Archaeopress Access Archaeology.
26. Gragson, T., **M. Coughlan**, D. Leigh. 2020. Contingency and Agency in the Mountain Landscapes of the Western Pyrenees: A Place-Based Approach to the Long Anthropocene. *MDPI Sustainability* 12 (9).
25. Bouillon, C., M. Amraoui, P. Chamusca, **M. Coughlan**, H. Madureira, J. Fernandes, J. Parente, M. Pereira. 2020. The relation of landscape characteristics, human settlements, spatial planning, and fuel management with extreme wildfires, Chapter 4. *Extreme Wildfire Events and Disasters: Root Causes and New Management Strategies*. Elsevier.
24. Tedim, F., V. Leone, D. Paton, **M. Coughlan**, C. Bouillon, G. Xanthopoulos, D. Roye, F. Correia, C. Ferreira. 2020. Extreme wildfire events: the definition, Chapter 1. *Extreme Wildfire Events and Disasters: Root Causes and New Management Strategies*. Elsevier.
23. Tedim, F., V. Leone, S. McCaffrey, T. McGee, **M. Coughlan**, F. Correia, C. Magalhães. 2020. Enhance safety in extreme wildfire events, Chapter 5. *Extreme Wildfire Events and Disasters: Root Causes and New Management Strategies*. Elsevier.
22. McCaffrey, S., T. McGee, **M. Coughlan**, F. Tedim. 2020. Social Science contributions to understanding human response to wildfire, Chapter 8. *Extreme Wildfire Events and Disasters: Root Causes and New Management Strategies*. Elsevier
21. **Coughlan, M.**, D. Nelson. 2019. Geostatistical analysis of historical contingency and land use footprints in the prehistoric settlement dynamics of the South Carolina Piedmont, North America. *Journal of Archaeological Science* 107: 1-9. [doi.org/10.1016/j.jas.2019.04.003](https://doi.org/10.1016/j.jas.2019.04.003).
20. **Coughlan, M.**, B. Magi, K. Derr. 2018. A Global Analysis of Hunter-Gatherers, Broadcast Fire Use, and Lightning-Fire-Prone Landscapes. *MDPI Fire* 1 (3), [doi.org/10.3390/fire1030041](https://doi.org/10.3390/fire1030041).

19. **Coughlan, M.**, D. Nelson. 2018. Influences of Native American land use on the Colonial Euro-American settlement of the South Carolina Piedmont. *PLoS One*. doi.org/10.1371/journal.pone.0195036.
18. Tedim, F., V. Leone, M. Amraoui , C. Bouillon , **M. Coughlan** , G. Delogu , P. Fernandes , C. Ferreira , S. McCaffrey , T. McGee , J. Parente , D. Paton , M. Pereira , L. Ribeiro , G. Xabthopoulos , D. Viegas. 2018. Defining extreme wildfire events: difficulties, challenges, and impacts. *MDPI Fire* 1(1), p9. doi:10.3390/fire1010009.
17. **Coughlan, M.**, D. Nelson, M. Lonneman, A. Block. 2017. Historical Land Use Dynamics in the Highly Degraded Landscape of the Calhoun Critical Zone Observatory. *MDPI Land* 6 (2):32. doi:10.3390/land6020032.
16. Roos, C., A. Scott, C. Belcher, W. Chaloner, J. Ayles, **M. Coughlan**, B. Johnson, F. Johnston, J. McMorrow, T. Steelman, R. Bliege Bird. 2016. Living on a flammable planet: interdisciplinary, cross-scalar, and cross-cultural lessons, prospects, and challenges. *Philosophical Transactions of the Royal Society B*. 371: 20150469. doi:10.1098/rstb.2015.0469
15. Kehrwald, N., J. Aleman, **M. Coughlan**, C. Courtney Mustaphi, E. Githumbi, B. Magi, J. Marlon, M. Power. 2016. One thousand years of fires: Integrating proxy and model data. *Frontiers of Biogeography*. 8(1):155-159. <https://escholarship.org/uc/item/1d92610x>
14. Hantson, S., S. Kloster, **M. Coughlan**, A.-L. Daniau, B. Vanni re, T. Br ucher, N. Kehrwald, and B. I. Magi. 2016. Fire in the Earth System - bridging data and modelling research. *Bulletin of the American Meteorological Society*. doi:10.1175/BAMS-D-15-00319.1
13. **Coughlan, M.**, T. Gragson. 2016. An event history analysis of parcel extensification and household abandonment in Pays Basque, French Pyrenees, 1830-1958 AD. *Human Ecology*. 44(1): 65-80. doi:10.1007/s10745-016-9808-y
12. **Coughlan, M.** 2016. Wildland arson as clandestine resource management: A space-time permutation analysis and classification of informal fire management regimes in Georgia, USA. *Environmental Management*. 57(5): 1077-1087. doi:10.1007/s00267-016-0669-3.
11. Gragson T., D. Leigh, **M. Coughlan**. 2015. Basque cultural landscapes of the western French Pyrenees. *Il Capitale Culturale, Studies on the Value of Cultural Heritage*. 12: 565-596. doi:10.13138/2039-2362/1153
10. Leigh, D, T. Gragson, **M. Coughlan**. 2015. Colluvial legacies of millennial landscape change on individual hillsides, place-based investigation in the western Pyrenees Mountains. *Quaternary International*. 402(26): 61-71. doi:10.1016/j.quaint.2015.08.031
9. **Coughlan, M.** 2015. Traditional fire use, landscape transition, and the legacies of social theory past: An overview of theoretical propositions and research priorities in the study of historical fire ecology. *Ambio*. 44(8): 705-717. doi: 10.1007/s13280-015-0643-y
8. Leigh, D, T. Gragson, **M. Coughlan**. 2015. Chronology and pedogenic effects of mid- to late-Holocene conversion of forests to pastures in the French western Pyrenees. *Zeitschrift f r Geomorphologie*. 59(2): 225-245. doi:10.1127/zfg\_suppl/2015/S-59212
7. **Coughlan, M.** 2014. Farmers, flames, and forests: historical ecology of pastoral fire use and landscape change in the French Western Pyrenees. *Forest Ecology and Management*. 312: 55-66. doi:10.1016/j.foreco.2013.10.021

6. **Coughlan, M.** 2013. Unauthorized fire setting as socioecological disturbance: a spatiotemporal analysis of “incendiary wildfires” in Georgia, USA, 1987-2010. *Fire Ecology* 9(3). doi:10.4996/fireecology.0903045
5. **Coughlan, M.** 2013. *Errakina*: Pastoral fire use and landscape memory in the Basque region of the French Western Pyrenees. *Journal of Ethnobiology* 33(1): 86-104. doi:10.2993/0278-0771-33.1.86
4. **Coughlan, M.**, and A. Petty. 2013. Fire as a dimension of historical ecology: A response to Bowman et al.’s The human dimensions of fire regimes on Earth. *Journal of Biogeography* 40(5): 1010-1012. doi:10.1111/j.1365-2699.2012.02767.x
3. **Coughlan, M.** and A. Petty. 2012. Linking humans and fire: a proposal for a transdisciplinary fire ecology. *International Journal of Wildland Fire* 21:477-487. doi: 10.1071/WF11048
2. Magi, B., **M. Coughlan**, A. Edwards, M. Hurteau, A. Petty, F. Seijo, C. Wiedimyer. 2008. Meeting Report from AIMES (Analysis, Integration and Modeling of the Earth System) Young Scholar’s Network Workshop on Cultural Uses and Impacts of Fire: Past, Present, and Future. *Eos* 89 (40):380.
1. **Coughlan, M.** 2004. Large diameter trees and the political culture of ‘restoration’: a case study of the Grand Canyon Forest Partnership, Flagstaff, Arizona. *Arizona Anthropologist* 15:48-72.

## Technical Reports

31. **Coughlan, M.**, D. Lewis, N. Serio, H. Loeb, S. Thompson. 2023. Indigenous fire stewardship and its implications for fire management and ecological restoration in the Pacific Northwest, a literature synthesis and annotated bibliography. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.118. University of Oregon.
30. Serio, N., **M. Coughlan**, H. Huber-Stearns, B. Clark, H. Smith. 2023. Wildfire smoke and athletic events: understanding public concerns, experiences, and preparedness. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.117. University of Oregon.
29. **Coughlan, M.**, N. Serio, J. Downey, H. Huber-Stearns, A. Santo, E. White, E.J. Davis. Monitoring Investments in Oregon’s Federal Forest Restoration Program, 2021-2023 Biennium. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.116. University of Oregon.
28. Serio, N., **M. Coughlan**, H. Huber-Stearns, A. Santo, A. McEvoy, E. White. 2023. Oregon Department of Forestry’s Landscape Resiliency Program: Assessing implementation and outcomes for the 2021-2023 Biennium. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.115. University of Oregon.
27. Serio, N., **M. Coughlan**, H. Huber-Stearns, A. Santo. 2023. Oregon Department of Forestry’s Landscape Resiliency Program: Assessing the project selection process for the 2021-2023 Biennium. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.114. University of Oregon.
26. Sullivan-Astor, K., **M. Coughlan**, N. Serio. 2022. Federal Forest Restoration Program Update: 2016-2022 Activities and Outcomes. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Fact Sheet no.27. University of Oregon.
25. Kaplowitz, G., A. Deak, **M. Coughlan**, H. Huber-Stearns, H. Smith., A. Shafer. 2022. Perceptions of Air Quality and Smoke in Oakridge, Oregon. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.113. University of Oregon.

24. Kaplowitz, G., A. Deak, **M. Coughlan**, H. Huber-Stearns, H. Smith., A. Shafer. 2022. Oakridge air community interviews on air quality and smoke. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Fact Sheet no. 26. University of Oregon.
23. Deak, A., **M. Coughlan**. 2022. Social and Economic Monitoring for the Lakeview Stewardship CFLR Project, FY 2020–2021. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.112. University of Oregon.
22. **Coughlan, M.**; H. Huber-Stearns; B. Clark, A. Deak. 2022. Oregon Wildfire Smoke Communications and Impacts, an evaluation of the 2020 wildfire season. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.111. University of Oregon.
21. Sullivan, K.; **M. Coughlan**; M. Kauffman. 2022. Federal Forest Restoration Program Use of the Good Neighbor Authority. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Fact Sheet no. 25. University of Oregon.
20. **Coughlan, M.**, H. Huber-Stearns, E. Davis, E. White, A. Santo, A. Ellison. 2021. Monitoring Investments in Oregon’s Federal Forest Restoration Program, 2019–2021 Biennium. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no. 107. University of Oregon.
19. Ellison, A., Huber-Stearns, H., Frederick, S. S., **Coughlan, M.**, Mccaffrey, S., & Olsen, C. 2021. Perceptions of Wildland Fire Smoke: Literature Review and Synthesis. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no. 103. University of Oregon.
18. **Coughlan, M.**, Ellison, A., Abrams, J., Huber-Stearns, H. 2020. Land manager experiences with resilience in National Forests planning and management. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no. 101. University of Oregon.
17. **Coughlan, M.**, Ellison, A., Abrams, J., & Huber-Stearns, H. 2020. Land Manager Experiences with Resilience in National Forest Planning and Management. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Briefing Paper no. 88. University of Oregon.
16. **Coughlan, M.**, Huber-Stearns, H., & Schultz, C. 2020. Factors Influencing National Forests' Use of Climate Change Vulnerability Assessment: Findings from a Pilot Study. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Fact Sheet no. 21. University of Oregon.
15. **Coughlan, M.**, A. Ellison, A. Cavanaugh. 2019. Social Vulnerability and Wildfire in the Wildland-Urban Interface: Literature synthesis. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.96. University of Oregon.
14. Silva LCR., M. Wood, B. Johnson, B. Bomfim, M. **Coughlan**, M. Smith, H. Brinton, S. Bridgham, and K. McGuire. 2019. National Science Foundation (NSF) Landscape Carbon Sequestration for Atmospheric Recovery White Paper: A Perspective on Convergence to Accelerate Carbon Sequestration. University of Oregon, Eugene, Oregon.
13. Ellison, A., **M. Coughlan**, C. Kooistra, G. Johnson. 2019. Regionally-Relevant Wildland Fire Research Needs in Washington and Oregon. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.94. University of Oregon.
12. Santo, A., H. Huber-Stearns, A. Ellison, **M. Coughlan**, Z. Koutnik, EJ Davis. 2019. Federal Forest Restoration Program Use of the Good Neighbor Authority, 2016–2018 Activities and Outcomes. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Fact Sheet no. 16. University of Oregon.

11. Ellison, A., **M. Coughlan**, C. Kooistra, C. Schultz. 2018. Accomplishing Collaborative, Landscape-Scale Restoration on Forests without CFLRP or Joint Chiefs' Projects. Technical Report, Ecosystem Workforce Program, Eugene, OR. EWP Working Paper no.87. University of Oregon.
10. **Coughlan, M.**, A. Simonneau. 2014. Multiproxy investigation of human-climate disturbance interaction in a high altitude catchment using coupled bio-geological archives (MUDCUP). OHM Pyrénées- Haut Vicdessos. Rapport d'activites (2010-2014).
9. Champagne, A., T. Contamine, **M. Coughlan**, T. Gragson, B.S. Haley, M. LeCouedic. 2014. Rapport de prospection et sondages Larrau, Pyrénées-Atlantiques. Campagne 2014.
8. **Coughlan, M.** 2012. Dendrochronological Investigation of Agro-Pastoral Fire in the French Pyrenees. Research Report, *Les Observatoires Hommes-Milieus Pyrenees* (OHM).
7. Lindly, J., and **M. Coughlan**. 2007. A Class III Cultural Resources Survey of the Verde Central Mine near Jerome , Arizona. Cultural Resources Report 2007-16, WestLand Resources, Inc., Tucson, Arizona.
6. Lindly, J., and **M. Coughlan**. 2007. A Class III Cultural Resources Survey of the Iron King Mine, South of Cottonwood , Arizona. Cultural Resources Report 2007-01, WestLand Resources, Inc., Tucson, Arizona.
5. **Coughlan, M.** 2007. A Class III Cultural Resources Survey of 15.96 Acres of ADOT Right-of-way near Canoa Ranch, Pima County, Arizona. Cultural Resources Report 2007-07, WestLand Resources, Inc., Tucson, Arizona.
4. Dolan, S. M., and **M. Coughlan**. 2006. Archaeological Monitoring Report for the Property at I-19 and Irvington. Cultural Resources Report 2006-50, WestLand Resources, Inc., Tucson, Arizona.
3. **Coughlan, M.** 2004. A Cultural Resources Inventory for the Continental Divide National Scenic Trail, Divide Peak Realignment, Medicine Bow National Forest. Brush Creek-Hayden Ranger District Cultural Resources Report, Saratoga, Wyoming.
2. Hass, W. R. Jr. and **M. Coughlan**. 2003. A Cultural Resources Inventory for Northern Arizona University College of Engineering and Technology Near Wild Bill Hill, Coconino County, Arizona. Northern Arizona University Archaeological Report 1233, NAU Contract Archaeology, Flagstaff, Az.
1. **Coughlan, M.** 2002. Invisible Pastoralists: Historic Use, Occupation, and Loss of Glen Canyon Watershed by Contemporary Native Americans. Research Report. Glen Canyon Institute, Flagstaff, Az.

### Editorial Reviewed Publications

9. **Coughlan, M.**; T. Gragson; D. Leigh. 2022. Landscape conservation and the ancient technique of pastoral fire in the western Pyrenees. PAGES Magazine 30(1). <https://doi.org/10.22498/pages.30.1.38>
8. Leonard K.; J. Aldern; A. Christianson; D. Ranco; C. Thornbrugh; P. Loring; **M. Coughlan**; P. Jones; J. Mancini; D. May; F. Moola; G. Williamson; C. Stoof. 2020. Indigenous Conservation Practices Are Not a Monolith: Western cultural biases and a lack of engagement with Indigenous experts undermine studies of land stewardship. EcoEvoRxiv. <https://ecoevorxiv.org/jmvqy/download?format=pdf>.
7. **Coughlan, M.** 2018. Environmental management with fire. The Encyclopedia of Archaeological Sciences. Edited by Sandra L. López Varela. John Wiley & Sons, Inc. Published 2018 by JohnWiley & Sons, Inc. doi: 10.1002/9781119188230.saseas0216.
6. **Coughlan, M.** 2014. Cynthia Fowler. Ignition Stories: Indigenous Fire Ecology in the Indo-Australian Monsoon Zone. *Ritual Studies Monograph Series*. Carolina Academic Press, Durham, NC, 2013. *Journal of Ecological Anthropology*. 17(1):37-39. doi: 10.5038/2162-4593.17.1.2

5. **Coughlan, M.** 2013. Fire Use, Landscape Transition, and the Socioecological Strategies of Households in the French Western Pyrenees. Ph.D. Dissertation, Department of Anthropology, University of Georgia. Major Professor: Ted Gragon.
4. **Coughlan, M.** 2011. Fundamentals of Tree-Ring Research by James H. Speer. *Ecological and Environmental Anthropology*, 6(1):56.
3. **Coughlan, M.** 2009. Bear Country: Predation, Politics, and the Changing Face of Pyrenean Pastoralism by Bryan Cummins. *Ecological and Environmental Anthropology*, 5(1).
2. **Coughlan, M.** 2008. Struggle Over Utah's San Rafael Swell by Jeffrey Durrant. *Ecological and Environmental Anthropology*, 4(1): 55.
1. **Coughlan, M.** 2001. The Wild in Wilderness. *Adirondac* (67:1), Adirondack Mountain Club, Lake George, NY.

### **Mapping and Spatial Analysis (most significant)**

2023 Lincoln County Community Wildfire Protection Plan. Institute for Policy Research and Engagement, University of Oregon. Social vulnerability and hazard mitigation prioritization analysis, map creation.

2023 Clackamas County Community Wildfire Protection Plan. Institute for Policy Research and Engagement, University of Oregon. Social vulnerability and hazard mitigation prioritization analysis, map creation.

Huber-Stearns, Santo and Steinkruger. Social and economic monitoring of the Tongass National Forest and Southeast Alaska communities: Monitoring plan and baseline report. EWP Working Paper 98. 2020. University of Oregon: Eugene, OR.

The Forest Service and Communities: Forestland ownership, timber and mills in Oregon and Washington. EWP Working Paper 95, Part II, 2019. University of Oregon: Eugene, OR.

### **Research Funding**

#### **Lead PI**

2024-2026. Principal Investigator. Culturally Modified Trees in Traditional Landscapes: Documenting the Legacy of Indigenous Foods and Cultural Practices in the Oregon Cascades. National Endowment for the Humanities. \$150,000.

2023-2025. Principal Investigator. Northwest Forest Plan 30 Year Monitoring. USDA Forest Service Region 6. \$260,000; UO \$69,102 match.

2023-2024. Principal Investigator. Assessing the Social Organization of Forest Restoration in Northwest Forest Plan Wildfire Crisis Strategy Landscapes in Oregon and Washington. USDA Forest Service Pacific Northwest Research Station, \$30,000, UO \$9,028 match.

2023. Principal Investigator. Monitoring Collaborative Capacity Grant Outcomes, ODF FFRP 2021-23. Oregon Department of Forestry, Task Order 6. \$20,682.

2022-2025. Principal Investigator. Investigating the historical dynamics of Indigenous forest stewardship in a western Oregon Cascades landscape. National Science Foundation. \$399,886.

2022-2025. Principal Investigator. Indoor Air Quality Data Analysis for Oakridge Air. Lane Regional Air Protection Agency & US EPA. \$373,460.



2022-2023. Principal Investigator. Lakeview CFLR Social and Economic Monitoring 22-23. US Forest Service, Fremont-Winema National Forest. \$50,000. UO \$13,918 match.

2022-2023. Principal Investigator. Oregon Department of Forestry, Task Order 5: SB762 ODF Landscape Resiliency Program monitoring for 2021-2023. \$180,000.

2021-2023. Principal Investigator. Oregon Department of Forestry, Task Order 3: 2021-2023 Federal Forest Restoration Program monitoring. Oregon Department of Forestry, \$89,407.

2020-2021. Principal Investigator. Co-producing restorative fire: a transdisciplinary approach to indigenous fire stewardship and the restoration of forest resilience. University of Oregon Resilience Initiative Interdisciplinary Seed Funding, \$50,000.

2010-2013. Principal Investigator. (EPA) Star Fellowship. Socio-Ecological Dynamics of Pastoral Fire in the French Pyrenees. US Environmental Protection Agency, \$110,000.

### **Co-PI**

2023-2025. Co-Principal Investigator. Identifying the scope and scale of the forestry and fire workforce for national forest system lands in the western US. USDA Forest Service Northern Research Station, \$120,000; UO \$33,000 match.

2023-2025. Co-Principal Investigator. Protecting Watershed Function After Fire: An Evaluation of Pre-Fire Planning Tools and Governance Conditions to Mitigate Post-Fire Effects in Forest Ecosystems. Colorado State University, Joint Fire Sciences Program, \$193,802.

2023-2025. Co-Principal Investigator. The Northwest Fire Science Consortium. Joint Fire Science Program. \$115,091.

2023-2026. Co-Principal Investigator. Center for Wildfire Smoke Research and Practice at the University of Oregon. US Environmental Protection Agency, \$800,000

2022-2026. Co-Principal Investigator. Grow back better: Social and ecological factors shaping wildfire recovery on nonindustrial private forestlands. Joint Fire Science Program, \$500,000.

2022-2024. Co-Principal Investigator. National Stewardship Contracting Monitoring. US Forest Service Washington Office, \$39,999.

2022. Co-Principal Investigator. Oregon Department of Forestry, Task Order 4. Monitoring Plan for the Landscape Resilience Program. Oregon Department of Forestry, \$25,498.

2021-2022, Co-Principal Investigator. Food for Lane County Data Management. Food for Lane County, \$44,056.

2021-2022. Co-Principal Investigator. Oregon Smoke Survey. Oregon Health Authority, \$50,000.

2019. Co-Principal Investigator. NSF Convergence Accelerator: Landscape Carbon Sequestration for Atmospheric Recovery (LCSAR). National Science Foundation, \$80,610.

2019-2020. Co-Principal Investigator. Smoke, Sediment, and Science Communication: Redefining scope and scale of wildfire hazard and risk management. Incubating Interdisciplinary Initiatives (I<sup>3</sup>) Award, Research Development Services, University of Oregon, \$50,000.

2019-2020 Co-Principal Investigator. Actor Investment in Climate Change Mitigation and Adaptation. Colorado State University, USDA Forest Service, \$60,909.

2019-2022 Co-Principal Investigator (International Partner). Understanding and building on the social context of rural Portugal to avoid wildfire disasters. Portuguese Science Foundation (FCT), 200,000€.

2016-2019 Co-Principal Investigator (International Partner). Prevent and prepare society for extreme fire events: the challenge of seeing the forest and not just the trees (FIREXTR). Portuguese Science Foundation (FCT), 200,000€.

2014 Co-Principal Investigator. Multiproxy investigation of human-climate disturbance interaction in a high altitude catchment using coupled bio-geological archives. *Les Observatoires Hommes-Milieux Pyrenees* (OHM), Principal Investigator Didier Galop, 3,000€.

2010-2011 Co-Principal Investigator. Dendrochronological Investigation of Agropastoral Fire in the French Pyrenees. Research Grant, *Les Observatoires Hommes-Milieux Pyrenees* (OHM), Principal Investigator, Didier Galop, 2,600€.

### **Proposal Pending or in Review**

2023-2025. Principal Investigator. 2023-2025 Federal Forest Restoration Program Monitoring. Oregon Department of Forestry.

2023-2024. Principal Investigator. PSW: Assessing the Social Organization of Forest Restoration in Northwest Forest Plan Wildfire Crisis Strategy Landscapes in Northern California.

2024-2025. Co-Principal Investigator. Multihazard sheltering at scale: Addressing disaster vulnerability for community resilience. US Environmental Protection Agency. Requesting \$2M.

### **Awards & Scholarships**

2016 Travel Assistance, International. Office of the Vice President for Research, University of Georgia. Awarded \$1600 for Landscape Archaeology conference in Uppsala, Sweden.

2015 Travel Assistance. Paleofire working group. Workshop on Paleofire: Data-Model Comparisons for the Past Millennium. Harvard Forest, Massachusetts.

2015 Travel Assistance, International. The Royal Society. The interaction of fire and mankind. Chicheley Hall, Buckinghamshire, UK.

2014 Travel Assistance, International. Office of the Vice President for Research, University of Georgia. Awarded \$1500 for conference in Barcelona, Spain.

2012-2013 Tuition & Stipend. University of Georgia, Graduate School Dissertation Completion Award.

2012 Travel Assistance. Travel, Research, and Educational Experience (TREE) grant, The Association for Fire Ecology, \$800.

2007-2010 Tuition & Stipend. Graduate Assistantship, Department of Anthropology, UGA.

2009 Travel Assistance. Quaternary Ecosystem Science Training International Group, Workshop on Paleofire, August 2009, Arc-et-Senans, France.

2008 Travel Assistance. AIMES Young Scholar's Network Interdisciplinary Workshop, "Cultural Uses and Impacts of Landscape Fires: Past, Present and Future," July 2008, NCAR, Boulder, Co.

### **Invited Talks, Professional Presentations, and Posters**

**Coughlan, M.**, K. Derr, J. Johnston, D. Lewis, B. Johnson. Precontact Indigenous Fire Stewardship: From the Valley to the Forest. Symposium, Future Directions for Archaeology and Heritage Research in the Willamette Valley, Oregon. Society for American Archaeology Annual Meeting, Portland, Oregon.

Leigh, D., T. Gragson, **M. Coughlan**, K. Price. 2022. Sustainable Soil Transformation Driven by Pastoral Land Use over Millenia in the Western Pyrenees. International Mountain Conference. Innsbruck, Switzerland.

**Coughlan, M.**, H. Huber-Stearns, B. Clark, A. Deak. 2022. Oregon Wildfire Smoke Communications and Impacts: An Evaluation of the 2020 Wildfire Season. Wildfire Season Kickoff LPHA and Tribal Webinar. Oregon Health Authority. Virtual Online, June 2, 2022.

**Coughlan, M.** 2022. Socioecological trajectories of forest-based communities in the US Pacific Northwest. Southern Interior Silviculture Committee Winter Workshop. Virtual Online, March 1-3, 2022.

**Coughlan, M.**, H. Huber-Stearns, M.D.O. Adams. 2021. Assessing 25 years of socioeconomic change in forest-based communities under the Northwest Forest Plan. International Association for Society and Natural Resources, Annual meeting (Virtual Conference).

Abrams, J., T. Timberlake, S.M. Greiner, J. Chapin, A. Evans, C. Schultz, **M. Coughlan**, H. Huber-Stearns, and M. Fernandez-Gimenez. 2020. "Operationalizing resilience in U.S. national forest management: A multi-methods analysis." Ecological Society of America, Virtual Conference, August 3-6.

Abrams, J., J. Chapin, T. Timberlake, S.M. Greiner, C. Schultz, **M. Coughlan**, H. Huber-Stearns, and A. Evans. 2020. "New paradigm or new packaging? Resilience and U.S. National Forest Management." International Symposium on Society and Resource Management, Virtual Conference, July 20.

Snitker, G., D. Bird, **M. Coughlan**, K. Derr, L. Gassaway, A. Klimaszewski-Patterson, K. Lightfoot, S. Maezumi, C. Roos, A. Sullivan. 2021. Forum. Archaeological approaches to anthropogenic fire and global pyrodiversity. Society for American Archaeology Annual Meeting (Virtual Conference).

Huber-Stearns, H., A. Ellison, **M. Coughlan**, C. Phifer. 2019. US Forest Service Pacific Northwest Directors and Leadership: "The Forest Service and Communities: Mills, national forest lands and cross-boundary partnerships." Portland, Oregon.

Nelson, D., **M. Coughlan**, A. Porporato, D. Richter. 2019. What is Soil? An integrative exploration of a Critical material. American Geophysical Union Fall Meeting, San Francisco, CA.

**Coughlan, M.** 2019. Fire and land (dis)use as long-term human-environment interactions. Invited Talk. H.J. Andrews LTER Monthly Meeting, Oregon State University.

**Coughlan, M.**, H. Huber-Stearns, M. Adams, G. Kolher. 2019. Diverse Perceptions of Socioeconomic Change in Forest Dependent Communities of the Pacific Northwest. Paper presented at the Annual Meeting of the Society for Applied Anthropology, Portland, Oregon.

Nelson, D. and **M. Coughlan**. 2019. Land Use Trajectories: An Empirical Analysis of Smallholders and the Forest Transition in the South Carolina Piedmont. Paper presented at the Annual Meeting of the Society for Applied Anthropology, Portland, Oregon.

O'Neill, K., D. Richter, **M. Coughlan**, B. Jordan, P. Schroder, L. Sutter. 2019. Last student in the woods: The critical zone perspective in field-based interdisciplinary education. Ecological Society of America Annual Meeting, Louisville, Kentucky.

**Coughlan, M.** 2018. From friend to foe, fire regime transition in the Southeastern United States. *Invited Talk*. 2<sup>nd</sup> Cycle Of Extreme Wildfire Conference. Universidade de Trás-os-Montes e Alto Douro, Villa Real, Portugal.

Magi, B., **M. Coughlan**, K. Derr. 2018. A global analysis of hunter-gatherers, documented fire use, and lightning-fire-prone landscapes. American Geophysical Union Fall Meeting, Washington D.C.

Nelson, D., **M. Coughlan**, M. Lonneman. 2018. Anthropogenic Drivers and the Reconstruction of Historical Forest Cover Change in the South Carolina Piedmont ca. 1790-1940. American Geophysical Union Fall Meeting, Washington D.C.

Adams, M., **M. Coughlan**, H. Huber-Sterns, G. Kolher. 2018. Socioeconomic Monitoring Protocol for the 25-year Northwest Forest Plan Monitoring Report. Poster presented at the Society of American Foresters 2018 National Convention, Portland, Oregon.

Gragson, T., **M. Coughlan**, and D. Leigh. 2018. Response Diversity and the Evolution of Pastoral Landscapes in the Western Pyrenees from the Middle Holocene to the Present. Paper presented at the 5th International Landscape Archaeology Conference, Newcastle, UK.

Gragson, T., **M. Coughlan**, and D. Leigh. 2017. Contingency & Agency in the Holocene Anthropization of Mountain Landscapes of the Western Pyrenees. Paper presented at the European Geophysical Union General Assembly, Vienna, Austria.

**Coughlan, M.**, T. Gragson, D. Leigh, M. LeCouedic. 2017. Holocene anthropization of high elevation landscapes around Pic d'Orhy, Western Pyrenees. Paper presented at the 10<sup>th</sup> Institute for European and Mediterranean Archaeology Conference: Archaeology of Mountain Landscapes: Interdisciplinary Research Strategies of Agro-Pastoralism in Upland Regions. Buffalo, New York.

**Coughlan, M.**, D. Nelson, M. Lonneman. 2017. Continuity and Change in the Southern Piedmont: A Social-Ecological Perspective on People and their Land (1790-1940). Paper presented at the Annual Meeting of the Society for Applied Anthropology, Santa Fe, New Mexico.

**Coughlan, M.** 2016. Drought, uncertainty, and fires that escape control: the case of Georgia, USA. 1<sup>st</sup> Cycle Of Extreme Wildfire Conference. Invited Talk. Universidade do Porto, Faculdade de Letras, Port, Portugal.

**Coughlan, M.**, D. Nelson. 2016. Human niche construction and legacy effects at the Calhoun CZO: The relationship of land use legacies and historical settlement patterns. Southeastern Archaeological Conference, Athens, Georgia.

**Coughlan, M.**, T. Gragson, D. Leigh. 2016. Reinterpreting high altitude forest to pasture conversion in the Holocene. Paper presented at the 4th International Landscape Archaeology Conference, Uppsala, Sweden.

Leigh, D., T. Gragson, **M. Coughlan**. 2016. Multi-proxy record of land use change derived from colluvial soils of the western Pyrenees Mountains, France. Paper presented at the European Geosciences Union General Assembly, Vienna, Austria.

**Coughlan, M.**, D. Nelson, T. Gragson. 2015. Transitioning from livelihood fire to fire suppression in the US Southeast: Causes and consequences of fire regime transition in two forested landscapes. Paper presented at the 6<sup>th</sup> International Fire Ecology and Management Congress, San Antonio, Texas.

Leigh, D., T. Gragson, **M. Coughlan**. 2015. Positive effects of millennial grazing on soils in the western French Pyrenees. Poster presented at the European Geosciences Union General Assembly, Vienna, Austria.

**Coughlan, M.**, T. Gragson, D. Leigh. 2015. Place-based investigation of the role of agropastoral fire use in forest-grassland transition in the Northwest Pyrenees using archaeological and biogeological archives. Paper presented at the Association of American Geographers annual meeting, Chicago, Illinois.

- Coughlan, M.**, A. M. Petty, L. J. Shaffer, K. Derr. 2014. The Global Human-Fire-Landscape Database: A resource for cross-cultural comparison of fire use practices by small-scale societies. Poster presented at the small-scale societies and environmental transformations: co-evolutionary dynamics, International Conference. Barcelona, Spain.
- Gragson, T., D. Leigh, **M. Coughlan**. 2014. Co-Evolutionary Dynamics of Mid- to Late-Holocene Landscape Transformation in the Western French Pyrenees. Paper presented at the small-scale societies and environmental transformations: co-evolutionary dynamics, International Conference. Barcelona, Spain.
- Leigh, D., T. Gragson, **M. Coughlan**. 2014. Colluvial Stratigraphic Sections as Proxies for Place-Based Analysis of Agropastoralism in the Western French Pyrenees Mountains. Poster presented at the small-scale societies and environmental transformations: co-evolutionary dynamics, International Conference. Barcelona, Spain.
- Leigh, D., T. Gragson, **M. Coughlan**. 2014. Place-based detection of the transition to agropastoralism from colluvial sediments of the French Western Pyrenees Mountains. Paper presented at the XVII International Congress on Archaeology and Paleoanthropology, Burgos, Spain.
- M. Coughlan**, T.Gragson, D. Leigh. 2014. Coevolution of agropastoral landscapes: investigating human-landscape dynamics in forest-grassland ecotones of the French Western Pyrenees. Presented at the Sustainability Science Symposium and Workshop, University of Georgia, Athens, Ga.
- Coughlan, M.** 2013. Fire use, human institutions, and landscape. Invited Talk. Geography and Earth Sciences Department Speaker Series, University of North Carolina, Charlotte, NC.
- Leigh, D., T. Gragson, **M. Coughlan**. 2013. Pedogenic Effects of Mid- to Late-Holocene Conversion of Forest to Pasture in the Western French Pyrenees. Paper presented at the 8<sup>th</sup> International Association of Geomorphologists Conference on Geomorphology, Session 13 – Human Impacts on Landscapes, Paris, France, August 27-31, 2013.
- Coughlan, M.** 2013. Fire use and socioecological vulnerability in the French Western Pyrenees and Georgia USA. Paper presented at the Annual Meeting of the Society for Applied Anthropology, Denver, Colorado.
- Coughlan, M.** 2012. Historical human-fire-landscape dynamics in the French Western Pyrenees: A Bayesian weights of evidence approach. Paper presented at the 5<sup>th</sup> International Fire Ecology and Management Congress, Portland, Oregon.
- Coughlan, M.** 2012. Long term, cross-site comparison of socioecological preferences and constraints on unauthorized fire setting behavior using spatiotemporal variability of wildfires in and around the Coweeta and Georgia Coastal Ecosystems LTER sites, 1987-2010. Poster presented at the LTER Network All Scientists Meeting, Estes Park, Colorado.
- Coughlan, M.** 2012. *Concernant l'incineration de Vegetaux sur Pied: A History of Pastoral Fire and its Regulation in the French Western Pyrenees*. Paper presented at the American Association for Environmental History Annual Conference, Madison, Wisconsin.
- Galop, D., T. Houet, F. Mazier, G. Lenoux, D. Ruis, **M. Coughlan**. 2011. Learning from the Past: Grazing and biodiversity in the Pyrenees. Poster presented at the Environment & Pyrenees International Conference, Pamplona, Spain.

**Coughlan, M.** 2011. Shifting Household Production Strategies and Long Term Fire Ecology in the French Western Pyrenees. Poster presented at the EPA STAR Graduate Fellowship Conference, Washington, D.C.

**Coughlan, M.** 2011. Shifting Household Economic Strategies and Pastoral Fire: Long Term Human Fire Ecology in the French Western Pyrenees. Poster presented at the Frontiers in Historical Ecology International Conference, Swiss Federal Research Institute WSL Birmensdorf, Switzerland.

Gragson, T., D. Leigh, F. Hautefeuille, P. Bolstad, P. Palu, A. Champagne, and **Coughlan, M.**

2011. Comparative historical ecology of trans-Atlantic mountain landscapes. Presentation at the Frontiers in Historical Ecology International Conference, Swiss Federal Research Institute WSL, Birmensdorf, Switzerland.

**Coughlan, M.** 2009. Socio-ecological Variability of 'Woods Arson' in the US Southeast. Paper presented at the 4<sup>th</sup> International Fire Ecology Congress, Savannah, Ga.

**Coughlan, M.** 2009. Socio-Ecological Dynamics of Agro-Pastoral Fire in the Western Pyrenees: A Pre-dissertation Pilot Project. Poster presented at the Quaternary Ecosystem Science Training International Group, Workshop on Paleofire, Arc-et-Senans, France.

**Coughlan, M.** 2009. Optimal Burning Theory: Anthropogenic Fire, Ecological Productivity, and Population. Paper presented at the Annual Meeting of the Society for American Archaeology, Atlanta, Georgia.

**Coughlan, M.** 2009. Who's Pulling Smokey Bear's Strings: History and Social Relations of Fire in the US Southeast. Paper presented at the Annual Meeting of the Society for Applied Anthropology, Santa Fe, New Mexico.

Edwards, A., **M. Coughlan**, A. Grant, A., and A. Petty. 2008. Cultural Uses and Impacts of Landscape Fires: Past, Present and Future. Paper presented at the AIMES Young Scholar's Network Interdisciplinary Workshop (July 14-18, 2008), NCAR, Boulder, Colorado.

**Coughlan, M.** 2003. Developing an Environmental Justice Framework for Glen Canyon Institute: Implications and Applications for Applied Environmental Anthropology. Paper presented at the Society for Applied Anthropology Annual Meeting, Portland, Oregon.

**Coughlan, M.** 2002. An Internship with Glen Canyon Institute: Applied Environmental Anthropology. Paper presented at the High Plains Society for Applied Anthropology Annual Retreat, Ghost Ranch, New Mexico.

**Coughlan, M.** 2002. Linking Cultural Ecology, Socioeconomic Development, and Agricultural Revitalization at Sipaulovi Village, Hopi Indian Reservation, Arizona. Paper presented at the Southwest Anthropological Association Meeting, Flagstaff, Arizona.

## Teaching and Mentoring Experience

### *Instructor*

Introduction to Cultural Anthropology, University of West Georgia, Spring 2015.

Introduction to Anthropology, Honors, University of Georgia, Spring 2014.

### *Teaching Assistant, UGA Department of Anthropology*

Millennial Landscapes of Southwestern France, Summers 2010 and 2011

Introduction to Cultural Anthropology, Spring 2010

Anthropology and Development, Fall 2009

Cultural Ecology, Spring 2009

Peoples of the World, Fall 2008

Introduction to Anthropology, Fall 2007, Spring 2008

*Guest Lectures, University of Georgia*

Cultural Ecology: Cultural Ecology of Fire

Anthropology and Development: Political Ecology of Fire Suppression

Anthropology of Consumption and Globalization: Peak Oil

*Supervision and Mentoring (\* supervisor of record, others oversight and mentoring)*

2022-Current Naomi Serio\*, faculty research assistant, University of Oregon.

2023-Current Naomi Cutler, faculty research assistant, University of Oregon.

2023-Current Jess Downey, faculty research assistant, University of Oregon.

2023 Harper Loeb\*, graduate research assistant, University of Oregon.

2023 Sally Thompson\*, undergraduate research assistant, University of Oregon.

2022-2023 Luis Contreras, undergraduate research assistant, Oregon State University.

2022-2023 Grace Petraglia\*, undergraduate research assistant, University of Oregon.

2022 Malia Mulligan\*, undergraduate research assistant, University of Oregon.

2022 Ashton Rantilla, undergraduate research assistant, University of Oregon.

2021-2022 Steven Buenas\*, graduate research assistant, University of Oregon.

2020-2022 Alison Deak, graduate research assistant, University of Oregon.

2018-2020 Amelia Rhodeland, graduate research assistant, University of Oregon.

2020 Geoffrey Johnson\*, graduate research assistant, University of Oregon.

2015-2018 Michael Lonneman, Phd student, CCZO project

2015-2016 Ashely Block, graduate student, CCZO project

2015-2016 Zach Meyers, high school student, intern on CCZO project

2016 Connor Martin, undergraduate research assistant, CCZO project

2012-2013 Sara De la Torre Barron, undergraduate research assistant, Coweta LTER project

*Thesis/Dissertation Committee Member*

Grace Petraglia, BA Thesis Advisor. Clark Honors College. University of Oregon.

Alison Deak, MA committee, Geography, University of Oregon

Geoffrey Johnson, Phd committee, Environmental Studies/Geography, University of Oregon.

Fernando Correia, Phd committee, Departamento de Geografia, Universidade do Porto.

Michael Lonneman, PhD/MA committee member, Dept. of Anthropology, UGA

### **Other Professional Activities and Affiliations**

Scientific Committee for the 8th International Wildland Fire Conference (Wildfire 2023) :  
<https://www.wildfire2023.pt/conference/organization>.

Management Team, Northwest Fire Science Consortium. 2022-Current.

Steering Committee, DiverseK Working Group, <https://pastglobalchanges.org/science/wg/diversek/intro>.

Steering Committee, Central Cascades Adaptive Management Partnership.

<https://ecoshare.info/projects/central-cascade-adaptive-management-partnership/>

Reviewer board member, MDPI Land. [https://www.mdpi.com/journal/land/submission\\_reviewers](https://www.mdpi.com/journal/land/submission_reviewers)

Advisory board member, Global Paleofire Working Group, <http://www.gpwg.paleofire.org/>, 2016-2020.

Participant, 2014 Navajo Nation Scientific Monitoring River Trip, Glen Canyon Adaptive Management Program, US Bureau of Reclamation.

English language editor for selected publications, Géographie de l'Environnement (GEODE), Université de Toulouse, Le Mirail, 2010-2011.

Organizer and chair of the special session on “Integrative Approaches to Human-Fire Relations,” 4th International Fire Ecology Congress, November 2009, Savannah, Ga.

Co-managing editor for Ecological and Environmental Anthropology (EEA) for the years 2008-2009. EEA is an electronic, peer reviewed, academic journal hosted by University of Georgia, Department of Anthropology.

### **Languages**

English: Native language

French: Speaking and reading

Spanish: Basic speaking and reading

### **Professional Skills**

Geospatial technologies: ArcGIS, GPS, Total Station

Graphic Design: Adobe Illustrator, Photoshop

Statistics: Stata, SPSS

Ethnographic methods

Dendrochronological Sampling and Analysis

Archaeological survey and testing

Archival research

### **Peer Reviewer (current and past)**

Grant Proposals:

Social Sciences and Humanities Research Council of Canada, 2023

National Science Foundation, Human Environment and Geographic Sciences Program, 2022



Joint Fire Sciences Program, 2021

H2020, European Commission, Research Executive Agency, 2020

National Science Foundation, Dynamics of Coupled Natural and Human Systems Program, 2015

US Fish and Wildlife Service, Directorate Assistant Fellows Program, 2014

Journals:

Journal of Archaeological Prospection

Journal of Disaster Risk Reduction

Journal of Forestry

Journal of Archaeological Science

Philosophical Transactions of the Royal Society B

Bioscience

Ambio

Land Use Policy

Ecology and Society

Anthropocene

Society and Natural Resources

Fire Ecology

**Professional Organizations**

Society for Applied Anthropology

International Association for Society and Natural Resources

Registered Professional Archaeologist (RPA Reg Number 4633)

Society for American Archaeology

Historical Landscape Ecology Working Group: International Association for Landscape Ecology

Association for Fire Ecology

American Anthropological Association (*Intermitted Participation*)

Association of American Geographers (*Intermitted Participation*)