Jacqueline E. Mohan

Curriculum Vitae

Position	Associate Professor, Eugene P. Odum School of Ecology, University of Georgia
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Biographical Sketch
Note: I was hospitalized twice in 2025 for low sodium and a stroke which greatly impacted my health.

SCHOLARSHIP - According to Google Scholar, as of 29 December 2025, I have been cited 10,335 times with 4542 times since 2020. My Whitehall Forest Soil Warming Facility (WFWF) continues to attract collaborative research by other labs which has been a long-term goal of mine. Soil biogeochemistry work at WFWF has resulted in a published paper in *Biogeochemistry* entitled "Decoding the hidden mechanisms of soil carbon cycling in response to climate change in a substrate-limited forest ecosystem." Also, in 2025 my students and I published “Predicting Rapid, Climate-Driven Shifts in North American Habitat Suitability for the Purple Pitcher Pant (*Sarracenia purpurea L.*)” in *Plants*.

I submitted a U.S. Department of Energy pre-proposal in 2025. With my ongoing National Geographic Society grant NGS58955R19 I continued research at UGA’s Center for Isotopic Studies (https://cais.uga.edu/). The title of this project is “Can Mycorrhizal Fungi Help Save the World’s Forests from Climate Change?” The ultimate goal is understanding the biogeographic role of mycorrhizal activities for forests ecosystem functioning in Harvard Forest and WFWF.
EDUCATING/MENTORING – The Mohan Lab in 2025 included 2 graduate students **Christian Brown** (PhD), and **Ben Frick** (MS). Former student Nathan Ashley and I submitted a manuscript in August 2025 to *PLoS One* entitled “Experimental soil warming has little impact on tree and liana leaf functional traits in a southeastern Piedmont Forest”. Unfortunately, it was not accepted and so we are currently in discussions of where to submit next. Ben Frick, Christian Brown and I have also just resubmitted a manuscript with Plants entitled “Predicting Rapid, Climate Driven Shifts in North American Habitat Suitability for the Purple Pitcher Plant (sarracenia purpurea LI continue serving on the doctoral committee of Clayton Hale (Megan Demarche, Plant Biology), including research at WFWF.
SERVICE - In 2025 I serving on the OSE Graduate Program Committee and began efforts with the OSE Inclusivity Excellence Committee. I served on the Editorial Board of PLOS One and as Associate Editor of Frontiers in Forests and Global Change. In 2025 my research on poison ivy and rising atmospheric CO_2 was covered a in the media (June 2025 Liz McLaughlin, WRAL).

Professional Experience

Aug 2014–Present	Associate Professor, Eugene P. Odum School of Ecology, UGA
Jan 2010–Dec 2016	Courtesy Faculty, Department of Plant Biology, Franklin College of Arts & Sciences - Division of Biological Sciences, UGA
Aug 2007–May 2026	Graduate Program Faculty, Eugene P. Odum School of Ecology, UGA
Aug 2007–Aug 2014	Assistant Professor, Eugene P. Odum School of Ecology, UGA
Jul 2007–Aug 2007	Part Time Assistant Professor, Eugene P. Odum School of Ecology, UGA
Jan 2007–Dec 2007	Associate Research Scientists, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA, USA
Oct 1993–Aug 1995	Gulf Coastal Plain Vegetation Ecologist, Natural Heritage Program, The Nature Conservancy, Chapel Hill, NC, USA

Education/Degrees

2002	Doctor of Philosophy, Biology/Biological Sciences, General, Duke University, NC, United States
1993	Master of Environmental Management, Ecology, Duke University, NC, United States
1991	Bachelor of Science, Organic Chemistry, University of Chicago The, IL, United States
1991	Bachelor of Arts, Biology/Biological Sciences, General, University of Chicago The, IL, United States

Education/Post-graduate

Jan 2007–Aug 2007	Assistant Research Scientist, Terrestrial Ecosystem Ecology, Marine Biological Laboratory
Jun 2004–Jan 2007	Postdoctoral Scientists, Terrestrial Ecosystem Ecology, Marine Biological Laboratory
Oct 2002–May 2004	Postdoctoral Research Fellow, Ecology, Harvard University

Honors/Awards

Jan 2024	Student Career Success Influencer Award 2024, Scott Williams, University of Georgia, Career Center, Athens, GA, United States
May 2010	Outstanding Teacher Award, University of Georgia
Oct 2009	100th Year Anniversary Celebration Invited Speaker, Oregon State Univ. Dept. of Botany and Plant Pathology
Aug 2002	Murray F. Buell Award for Best Student Paper, Ecological Society of America
Jul 1996	NASA Earth Science Summer School, NASA

May 1993	U.S. Forest Service Science Award, U.S. Forest Service
May 1992	Duke Fellow, Duke University and The Nature Conservancy
1991	Dean's List, University of Chicago
Aug 1987	Mellinger Educational Foundation Fellowship, Mellinger Educational Foundation-University of Chicago

Invited Presentation/Seminars

15 Sep 2022	Afforestation and Silvopasture in Georgia: Background & Steps Forward, Drawdown Georgia Forestry Solutions, Georgia Tech and Web Mohan, JE (Seminar)
18 Aug 2022	Geographically Based Variation in Red Maple (Acer rubrum) Spring Phenology Responses to Soil Warming: Implications for Carbon Sequestration and the Drawdown Georgia Project, Ecological Society of America 2022 Annual Meeting, Montreal, Canada Frankson, PT; Mohan, JE (Conference)
Dec 2013	Drought, Light, and Warming Impacts on Tree Recruitment and Soil Biogeochemistry in Eastern Temperate Forests, American Geophysical Union 2013, San Francisco, CA Mohan, JE (Symposium)
20 Mar 2013	Mycorrhizal Linkages Between Soil & Plant Responses to Warming, Northeastern Ecosystem Research Composium, Saratoga Springs, NY Mohan, JE (Seminar)
Dec 2012	Climate Change Impacts on Forest Succession & Future Productivity, American Geophysical Union, San Fransisco, CA Mohan, JE (Symposium)
Oct 2011	Southeastern Forests & Climate Change, Georgia Climate & Society Initiative, Athens, GA Mohan, JE (Seminar)
2011	Climate Change & Changing Forests, Georgia Climate Change Coalition, Athens, GA Mohan, JE (Seminar)
2011	Global Climate Change: What Every Global Citizen Should Know, UGA Honor's Student Luncheon, Athens, GA Mohan, JE (Seminar)
Aug 2010	FORESTS OF THE FUTURE: DEMOGRAPHIC RESPONSES OF JUVENILE TREES TO SOIL WARMING AT HARVARD FOREST, Ecological Society of America, Pittsburgh, PA Mohan, JE (Symposium)
2009	Global Change Impacts on Plants & Forests: Responses and Feedbacks to the Climate System, Oregan State University - 100th Anniversary of the Dept. of

Botany & Plant Pathology, Corvallis, OR
Mohan, JE (Seminar)

Poster Presentations

12 Dec 2022	Fungal foliar endophyte communities differ only by host tree species in a temperate oak forest soil warming experiment, Plant Center Retreat Frankson, PT; Gandhi, K; Lim-Hing, SZ; Meinecke, CD; Mohan, JE; Villari, C (University)
18 Aug 2022	Geographically Based Variation in Red Maple (Acer rubrum) Spring Phenology Responses to Soil Warming: Implications for Carbon Sequestration and the Drawdown Georgia Project, Ecological Society of America 2022 Annual Meeting Frankson, PT; Mohan, JE (International)

Publications

1. Christian H. Brown, Benjamin L. Frick, & Jacqueline E. Mohan (2025). Predicting Rapid, Climate-Driven Shifts in North American Habitat Suitability for the Purple Pitcher Pant (*Sarracenia purpurea L.*). Plants, 14(21), 3337. https://doi.org/10.3390/plants14213337
2. Yaxi Du, Jacqueline Mohan, Paul Frankson, Greta Franke, Zhilin Chen, & Debjani Sihi (2025). Decoding the hidden mechanisms of soil carbon cycling in response to climate change in a substrate-limited forest ecosystem. *Biogeochemistry*, Volume 168, article number 74. doi.org/10.1007/s10533-025-01265-0
3. Warren, R. J., Frankson, P. T., Mohan, J. E., Bradford, M. A., & King, J. (2024). Antagonistic biotic interactions mitigate the positive effects of warming on wood decomposition. *Oecologia*, *07*(1), 1. doi:10.1007/s00442-024-05640-w
4. Merchlinsky, A., Frankson, P. T., Gitzen, R., Lepczyk, C. A., Mohan, J. E., & Warren, R. J. (2023). Warming promotes non-native invasive ants while inhibiting native ant communities. *Ecological Entomology*, *48*(5), 588-596. doi:10.1111/een.13256
5. Bradford, M. A., Veen, G. F. C., Bradford, E. M., Covey, K. R., Crowther, T. W., Fields, N., . . . Maynard, D. S. (2023). Coarse woody debris accelerates the decomposition of deadwood inputs across temperate forest. *Biogeochemistry*, *164*(3), 489-507. doi:10.1007/s10533-023-01045-8
6. Warren, R. J., Frankson, P. T., & Mohan, J. E. (2022). Global change drivers synergize with the negative impacts of non-native invasive ants on native seed-dispersing ants. *BIOLOGICAL INVASIONS*, 14 pages. doi:10.1007/s10530-022-02943-y
7. Bradford, M. A., Maynard, D. S., Crowther, T. W., Frankson, P. T., Mohan, J. E., Steinrueck, C., Warren, R. J. (2021). Belowground community turnover accelerates the decomposition of standing dead wood. *ECOLOGY*, *102*(11), 13 pages. doi:10.1002/ecy.3484
8. Brown, M. A., Dwivedi, P., Mani, S., Matisoff, D., Mohan, J. E., Mullen, J., Polepeddi, L. (2021). A framework for localizing global climate solutions and their carbon reduction potential. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, *118*(31), 11 pages. doi:10.1073/pnas.2100008118.
9. Baas, P., Knoepp, J. D., Markewitz, D., & Mohan, J. E. (2020). A Rapid Approach to Determine

Soil Carbon Quality and Its Relationship to Soil Greenhouse Gas Emissions. *COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS*, *52*(3), 256-267. doi:10.1080/00103624.2020.1862150

10. Keogh, C., Gambill, J., Mohan, J., Rochberg, D., Rosemond, A., Wenger, S., & Yager, P. (2020). *What Does a Changing Climate Mean for Georgia's Ecosystems?*. Georgia Climate Information Portal.
11. Baas, P., Knoepp, J. D., & Mohan, J. E. (2019). Well-Aerated Southern Appalachian Forest Soils Demonstrate Significant Potential for Gaseous Nitrogen Loss. *FORESTS*, *10*(12), 13 pages. doi:10.3390/f10121155
12. Degrassi, A. L., Brantley, S., Levine, C. R., Mohan, J., Record, S., Tomback, D. F., & Ellison, A. M. (2019). Loss of foundation species revisited: conceptual framework with lessons learned from eastern hemlock and whitebark pine. *ECOSPHERE*, *10*(11), 11 pages. doi:10.1002/ecs2.2917
13. Mohan, J. E. (2019). *Ecosystem Consequences of Soil Warming: Microbes, Vegetation, Fauna and Soil Biogeochemistry*. J. E. Mohan (Ed.), Academic Press - Elsevier.
14. Cowden, C. C., Shefferson, R. P., & Mohan, J. E. (2019). Mycorrhizal Mediation of Plant and Ecosystem Responses to Soil Warming. In J. E. Mohan (Ed.), *Ecosystem Responses to Soil Warming: Microbes, Vegetation, Fauna, and Soil Biogeochemistry*. Academic Press - Elsevier.
15. Cowden, C. C., Shefferson, R. P., & Mohan, J. E. (2019). Mycorrhizal Mediation of Plant and Ecosystem Responses to Soil Warming. In J. E. Mohan (Ed.), *Ecosystem Responses to Soil Warming: Microbes, Vegetation, Fauna, and Soil Biogeochemistry*. Academic Press - Elsevier.

16. Mohan, J., Wadgymar, S. M., Winkler, D. E., Anderson, J., Frankson, P. T., Hannifin, R., . . . Melillo, J. M. (2019). Plant Reproductive Fitness and Phenology Responses to Climate Warming: Results from Native Populations, Communities and Ecosystems. In J. Mohan (Ed.), *Ecosystem Consequences of Soil Warming: Microbes, Vegetation, Fauna and Soil Biogeochemistry*. Academic Press - Elsevier.
17. Mohan, J., Wadgymar, S. M., Winkler, D. E., Anderson, J., Frankson, P. T., Hannifin, R., . . . Melillo, J. M. (2019). Plant Reproductive Fitness and Phenology Responses to Climate Warming: Results from Native Populations, Communities and Ecosystems. In J. Mohan (Ed.), *Ecosystem Consequences of Soil Warming: Microbes, Vegetation, Fauna and Soil Biogeochemistry*. Academic Press - Elsevier.
18. Wood, T. E., Cavaleri, M. A., Giardina, C. P., Khan, S., Mohan, J. E., Nottingham, A. T., . . . Slot, M. (2019). Soil Warming Effects on Tropical Forests with Highly-Weathered Soils. In J. E. Mohan (Ed.), *Ecosystem Consequences of Soil Warming: Microbes, Vegetation, Fauna and Soil Biogeochemistry*. Academic Press - Elsevier.
19. Wood, T. E., Cavaleri, M. A., Giardina, C. P., Khan, S., Mohan, J. E., Nottingham, A. T., . . . Slot, M. (2019). Soil Warming Effects on Tropical Forests with Highly-Weathered Soils. In J. E. Mohan (Ed.), *Ecosystem Consequences of Soil Warming: Microbes, Vegetation, Fauna and Soil Biogeochemistry*. Academic Press - Elsevier.
20. Tang, J., Bradford, M., Carey, J., Crowther, T., Machmuller, M., Mohan, J. E., & Todd-Brown, K. (2019). The Temperature Sensitivity of Soil Carbon. In J. E. Mohan (Ed.), *Ecosystem Consequences of Soil Warming: Microbes, Vegetation, Fauna and Soil Biogeochemistry*. Academic Press - Elsevier.
21. Tang, J., Bradford, M., Carey, J., Crowther, T., Machmuller, M., Mohan, J. E., & Todd-Brown, K. (2019). The Temperature Sensitivity of Soil Carbon. In J. E. Mohan (Ed.), *Ecosystem Consequences of Soil Warming: Microbes, Vegetation, Fauna and Soil Biogeochemistry*. Academic Press - Elsevier.
22. Mohan, J. (2019). Forward and Introduction - Past, Present & Future. In J. E. Mohan (Ed.), *Ecosystem Consequences of Soil Warming: Microbes, Vegetation, Fauna and Soil Biogeochemistry*. Academic Press - Elsevier.
23. Mohan, J. (2019). Forward and Introduction - Past, Present & Future. In J. E. Mohan (Ed.), *Ecosystem Consequences of Soil Warming: Microbes, Vegetation, Fauna and Soil Biogeochemistry*. Academic Press - Elsevier.
24. Santos, F., Moreland, K., Barnes, M., Abney, R., Jin, L., Bogie, N., . . . Berhe, A. A. (2019). Response of soil physical properties to warming and implications for biogeochemical cycling of essential elements. In J. Mohan (Ed.), *Ecosystem Consequences of Soil Warming: microbes, vegetation, fauna, and soil biogeochemistry*. Elsevier.
25. Machmuller, M. B., Ballantyne, F., Markewitz, D., Thompson, A., Wurzburger, N., Frankson, P. T., & Mohan, J. E. (2018). Temperature sensitivity of soil respiration in a low-latitude forest ecosystem varies by season and habitat but is unaffected by experimental warming. *BIOGEOCHEMISTRY*, *141*(1), 63-73. doi:10.1007/s10533-018-0501-7
26. Crowther, T. W., Machmuller, M. B., Carey, J. C., Allison, S. D., Blair, J. M., Bridgham, S. D., . . . Bradford, M. A. (2018). Crowther et al. reply.. *Nature*, *554*(7693), E7-E8. doi:10.1038/nature25746

27. Crowther, T. W., Machmuller, M. B., Carey, J. C., Allison, S. D., Blair, J. M., Bridgham, S. D., . . . Bradford, M. A. (2018). Predicting soil carbon loss with warming reply. *NATURE*, *554*(7693), E7-E8. doi:10.1038/nature25746

28. Baas, P., Knoepp, J. D., Markewitz, D., & Mohan, J. E. (2017). Areas of residential development in the southern Appalachian Mountains are characterized by low riparian zone nitrogen cycling and no increase in soil greenhouse gas emissions. *BIOGEOCHEMISTRY*, *133* (1), 113-125. doi:10.1007/s10533-017-0318-9

29. Machmuller, M. B., Mohan, J. E., Minucci, J. M., Phillips, C. A., & Wurzburger, N. (2016). Season, but not experimental warming, affects the activity and temperature sensitivity of extracellular enzymes. *BIOGEOCHEMISTRY*, *131*(3), 255-265. doi:10.1007/s10533-016-0277-6

30. van Gestel, N., Shi, Z., van Groenigen, K. J., Osenberg, C. W., Andresen, L. C., Dukes, J. S., . . . Hungate, B. A. (2018). Predicting soil carbon loss with warming. *NATURE*, *554*(7693), E4-E5. doi:10.1038/nature25745

31. Carey, J. C., Tang, J., Templer, P. H., Kroeger, K. D., Crowther, T. W., Burton, A. J., . . . Tietema, A. (2016). Temperature response of soil respiration largely unaltered with experimental warming. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, *113*(48), 13797-13802. doi:10.1073/pnas.1605365113

32. Clark, J. S., Salk, C., Melillo, J., & Mohan, J. (2014). Tree phenology responses to winter chilling, spring warming, at north and south range limits. *FUNCTIONAL ECOLOGY*, *28*(6), 1344-1355. doi:10.1111/1365-2435.12309

33. Mohan, J. E., Cowden, C. C., Baas, P., Dawadi, A., Frankson, P. T., Helmick, K., . . . Witt, C. A. (2014). Mycorrhizal fungi mediation of terrestrial ecosystem responses to global change: mini-review. *FUNGAL ECOLOGY*, *10*, 3-19. doi:10.1016/j.funeco.2014.01.005

34. van Diepen, L. T. A., Hobbie, E. A., & Mohan, J. E. (2014). Fungi, ecosystems and global change. *FUNGAL ECOLOGY*, *10*, 1-2. doi:10.1016/j.funeco.2014.02.004

35. Clark, J. S., Melillo, J., Mohan, J., & Salk, C. (2014). The seasonal timing of warming that controls onset of the growing season. *GLOBAL CHANGE BIOLOGY*, *20*(4), 1136-1145. doi:10.1111/gcb.12420

36. Baas, P., Mohan, J. E., Markewitz, D., & Knoepp, J. D. (2014). Assessing Heterogeneity in Soil Nitrogen Cycling: A Plot-Scale Approach. *SOIL SCIENCE SOCIETY OF AMERICA JOURNAL*, *78*, S237-S247. doi:10.2136/sssaj2013.09.0380nafsc

37. Anderson-Teixeira, K. J., Miller, A. D., Mohan, J. E., Hudiburg, T. W., Duval, B. D., & DeLucia, E. H. (2013). Altered dynamics of forest recovery under a changing climate. *GLOBAL CHANGE BIOLOGY*, *19*(7), 2001-2021. doi:10.1111/gcb.12194

38. Coyle, D. R., Pickering, J., Dyer, K. A., Lehman, F. R., Mohan, J. E., & Gandhi, K. J. (2013). Dynamics of an unprecedented outbreak of two naive moth species, Cissusa spadix and Phoberia atomeris (Lepidoptera: Noctuidae), on Oak Trees (Quercus spp.) in the Southeastern United States.. *American Entomologist*, *59.2*(Summer 2013), 82-94. Retrieved from http://www.entsoc.org/Pubs/Periodicals/AE

39. Hopkinson, C. S., Covich, A. P., Craft, C. B., Doyle, T. W., Flanagan, N., Freeman, M. C., . . . Richardson, C. J. (2013). The effects of climate change on natural ecosystems of the southeastern United States. In *Global Climate Change Impacts in the United States*. Cambridge University Press.
40. McNulty, S., & Mohan, J. E. (2013). The effects of climate change on natural forests of the southeastern United States. In *Global Climate Change Impacts in the United States*. Cambridge University Press.
41. Mohan, J. E. (2013). Temperate Coniferous Forests. In *Biomes and Ecosystems: An Encyclopedia*. Salem Press.
42. Khan, S. I., & Mohan, J. E. (2013). Indochina Subtropical Forests. In *Biomes and Ecosystems: An Encyclopedia*. Salem Press.
43. Lehman, F. R., & Mohan, J. E. (2013). Central Indochina Dry Forests. In *Biomes and Ecosystems: An Encyclopedia*. Salem Press.
44. Frankson, P. T., & Mohan, J. E. (2013). Anatolian Conifer and Deciduous Mixed Forests. In *Biomes and Ecosystems: An Encyclopedia*. Salem Press.
45. Multiple. (2013). *Biomes and Ecosystems: An Encyclopedia, Edited by Robert W. Howarth and Jacqueline E. Mohan*. J. Mohan (Ed.).
46. Butler, S. M., Melillo, J. M., Johnson, J. E., Mohan, J., Steudler, P. A., Lux, H., . . . Bowles, F. (2012). Soil warming alters nitrogen cycling in a New England forest: implications for ecosystem function and structure. *OECOLOGIA*, *168*(3), 819-828. doi:10.1007/s00442-011-2133-7
47. Zhou, Y., Tang, J., Melillo, J. M., Butler, S., & Mohan, J. E. (2011). Root standing crop and chemistry after six years of soil warming in a temperate forest. *TREE PHYSIOLOGY*, *31*(7), 707-717. doi:10.1093/treephys/tpr066
48. Melillo, J. M., Butler, S., Johnson, J., Mohan, J., Steudler, P., Lux, H., . . . Tang, J. (2011). Soil warming, carbon-nitrogen interactions, and forest carbon budgets. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, *108*(23), 9508-9512. doi:10.1073/pnas.1018189108
49. Clark, J. S., Bell, D., Chu, C., Courbaud, B., Dietze, M., Hersh, M., . . . Wyckoff, P. (2010). High-dimensional coexistence based on individual variation: a synthesis of evidence. *ECOLOGICAL MONOGRAPHS*, *80*(4), 569-608. doi:10.1890/09-1541.1
50. Bradford, M. A., Wallenstein, M. D., Allison, S. D., Treseder, K. K., Frey, S. D., Watts, B. W., . . Reynolds, J. F. (2009). Decreased mass specific respiration under experimental warming is robust to the microbial biomass method employed. *ECOLOGY LETTERS*, *12*(7), E15-E18. doi:10.1111/j.1461-0248.2009.01332.x
51. Mohan, J. E., Cox, R. M., & Iverson, L. R. (2009). Composition and carbon dynamics of forests in northeastern North America in a future, warmer world. *CANADIAN JOURNAL OF FOREST RESEARCH*, *39*(2), 213-230. doi:10.1139/X08-185
52. Mohan, J. E., Cox, R., & Iverson, L. (2009). Northeastern forest composition and carbon dynamics in a future, warmer world.. *Canadian Journal of Forest Research*, *39*(213-230).

53. Rustad, L. E., Campbell, J. C., Cox, R. C., DeBlois, M., Dukes, J. S., Huntington, T. G., . . . Willard, N. (2009). Northeastern Forests 2100: Evaluating climate-driven changes in northeastern North American forests. *Canadian Journal of Forest Research*, *39*(1:10).

54. Bradford, M. A., Davies, C. A., Frey, S. D., Maddox, T. R., Melillo, J. M., Mohan, J. E., . . . Wallenstein, M. D. (2008). Thermal adaptation of soil microbial respiration to elevated temperature. *ECOLOGY LETTERS*, *11*(12), 1316-1327. doi:10.1111/j.1461-0248.2008.01251.x

55. Mohan, J. E., Ziska, L. H., Thomas, R. B., Sicher, R. C., George, K., Clark, J. S., & Schlesinger, W. H. (2008). Biomass and toxicity responses of poison ivy (Toxicodendron radicans) to elevated atmospheric CO2: Reply. *ECOLOGY*, *89*(2), 585-587. doi:10.1890/07-0660.1

56. Wang, X., & Mohan, J. E. (2008). Effects of global environmental changes on weeds. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*, *3* (067), 1-20.

57. Ziska, L. H., Sicher, R. C., George, K., & Mohan, J. E. (2007). Rising atmospheric carbon dioxide and potential impacts on the growth and toxicity of poison ivy (Toxicodendron radicans). *WEED SCIENCE*, *55*(4), 288-292. doi:10.1614/WS-06-190

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61. Knepp, R. G., Hamilton, J. G., Mohan, J. E., Zangerl, A. R., Berenbaum, M. R., & DeLucia, E. H. (2005). Elevated CO2 reduces leaf damage by insect herbivores in a forest community. *NEW PHYTOLOGIST*, *167*(1), 207-218. doi:10.1111/j.1469-8137.2005.01399.x

62. Mohan, J. E., Clark, J. S., & Schlesinger, W. H. (2004). Genetic variation in germination, growth, and survivorship of red maple in response to subambient through elevated atmospheric CO2. *GLOBAL CHANGE BIOLOGY*, *10*(2), 233-247. doi:10.1046/j.1365-2486.2004.00726.x

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65. Schlesinger, W. H., Clark, J. S., Mohan, J. E., & Reid, C. D. (2001). Global environmental change - Effects on biodiversity. In M. E. Soule, & G. H. Orians (Eds.), *Unknown Book* (pp. 175 -223). ISLAND PRESS. Retrieved from https://www.webofscience.com/

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67. Clark, J. S., Beckage, B., Camill, P., Cleveland, B., HilleRisLambers, J., Lichter, J., . . . Wyckoff, P. (1999). Interpreting recruitment limitation in forests. *AMERICAN JOURNAL OF BOTANY*, *86*(1), 1-16. doi:10.2307/2656950

Manuscripts in Review

Manuscripts in Preparation

1. Ashley, Nathan P., Frankson, Paul, & Mohan, Jacqueline E. Experimental soil warming has little impact on tree and liana leaf functional traits in a southeastern Piedmont Forest.

Grants/Contracts (Awarded)

1. CAN MYCORRHIZAL FUNGI HELP SAVE THE WORLD'S FORESTS FROM CLIMATE CHANGE? NATIONAL GEOGRAPHIC SOCIETY, NGS58955R19, 01 Sep 2019–31 Dec 2026. Amount: $ 29,999 (US), Role: Principal Investigator – wrote grant & executing research.

2. DRAWDOWN GEORGIA (PHASE 4) RAY C ANDERSON FOUNDATION, AWD-006073-G1, 01 Sep 2024–15 Nov 2025 Amount: $ 10,000 (US), Role: Principal investigator of Land Sink Solutions Forest Management & Wetlands Protection.

3. DRAWDOWN GEORGIA (PHASE 3) RAY C ANDERSON FOUNDATION, AWD-004165-G2, 01 Jul 2022–30 Aug 2024 Amount: $ 20,499 (US), Role: Principal investigator of Land Sink Solutions Forest Management & Wetlands Protection.

4. MOLECULAR AND GENOMIC RESPONSES TO SOIL WARMING U.S. DEPARTMENT OF ENERGY JOINT GENOME INSTITUTE AND THE ENVIRONMENTAL, 29 Sep 2016–28 Sep 2017. Amount: $ 2 (US), Role: Senior/key personnel of Whitehall Forest Warming Facility.

5. HERBIVORE OUTBREAKS IN WARMER FORESTS: SOIL BIOCHEMICAL RESPONSES TO SOIL WARMING AND AN EPHEMERAL, INTENSE OUTBREAK OF LEAF-FEEDING INSECT HERBIVORES NATIONAL SCIENCE FOUNDATION, DEB1242013, 01 Jun 2012–31 May 2013. Amount: $ 164,060 (US), Role: Principal investigator invested impacts of frass and through fall nutrient impacts of herbivores and soil warming on net nitrogen mineralization rates.

6. EFFECTS OF WARMING ON TREE SPECIES RECRUITMENT IN DECIDUOUS FORESTS OF THE EASTERN UNITED STATES MARINE BIOLOGICAL LABORATORY, 36213, 01 Jan 2008–31 Dec 2013 Amount: $ 39,906 (US), Role: Principal investigator of Whitehall Forest Warming facility.

7. COLLABORATIVE RESEARCH: CLIMATE CHANGE IMPACTS ON FOREST BIODIVERSITY: INDIVIDUAL RISK TO SUBCONTINENTAL IMPACTS. NATIONAL SCIENCE FOUNDATION, 1136950, 15 Feb 2012–31 Jan 2017. Amount: $ 554,626 (US), Role: Principal investigator of Whitehall Forest Warming Facility. Conducted Vegetation Research and Modelled Data from Whitehall Forest (GA) and Ordway Swisher NEON Site (FL).

8. THE CONSEQUENCES OF EXPERIMENTAL WARMING ON SOIL ORGANIC MATTER DYNAMICS ALONG A LATITUDINAL GRADIENT: CARBON LOST VERSUS CARBON RETAINED (MEGAN MACHMULLER) SIGMA XI SCIENTIFIC RSCH SOC, G20110315157165, 06 May 2011–31 May 2013. Amount: $ 1,000 (US), Role: Principal investigator – supervised PhD student Megan Machmuller and contributed to *Nature* paper.

9. EFFECTS OF WARMING ON TREE SPECIES RECRUITMENT IN DECIDUOUS FORESTS OF THE EASTERN UNITED STATES MARINE BIOLOGICAL LABORATORY, 36213, 01 Jan 2008–31 Dec 2013 Amount: $ 39,906 (US), Role: Overall supervisor of Whitehall Forest Warming Facility. Conducted vegetation and environmental research.

10. SOUTHERN APPALACHIA ON THE EDGE: EXURBANIZATION AND CLIMATE INTERACTION IN THE SOUTHEAST NATIONAL SCIENCE FOUNDATION, 0823293, 01 Nov 2008–31 Oct 2014. Amount: $ 1,119,999 (US), Role: Co-investigator of biogeochemical nitrogen mineralization rates of Coweeta elevation gradient plots and contributed to Coweeta LTER Renewal grant.

11. EFFECTS OF CLIMATIC VARIABLES ON TROPICAL TREE SPECIES GROWTH IN SECONDARY COMMUNITIES ALONG AN ELEVATIONAL GRADIENT SIGMA XI SCIENTIFIC RSCH SOC, CHECK062559, 01 Dec 2009–30 Jan 2011. Amount: $ 908 (US), Role: Principal investigator supervised PhD student Shafkat Khan.

12. EFFECTS OF WARMING ON TREE SPECIES RECRUITMENT IN DECIDUOUS FORESTS OF THE EASTERN UNITED STATES MARINE BIOLOGICAL LABORATORY, 36213, 01 Jan 2008–31 Dec 2013. Amount: $ 38,493 (US), Role: Principal investigator of Whitehall Forest Warming facility. Conducted vegetation and environmental research.

13. SOUTHERN APPALACHIA ON THE EDGE: EXURBANIZATION AND CLIMATE INTERACTION IN THE SOUTHEAST NATIONAL SCIENCE FOUNDATION, 0823293, 01 Nov 2008–31 Oct 2014. Amount: $ 1,119,999 (US), Role: Co-investigator of biogeochemical nitrogen mineralization rates of Coweeta elevation gradient plots and contributed to Coweeta LTER Renewal grant.

14. EFFECTS OF WARMING ON TREE SPECIES RECRUITMENT IN DECIDUOUS FORESTS OF THE EASTERN UNITED STATES MARINE BIOLOGICAL LABORATORY, 36213, 01 Jan 2008–31 Dec 2013. Amount: $ 22,703 (US), Role: Principal investigator of Principal investigator of Whitehall Forest Warming facility. Conducted vegetation and environmental research.

15. EFFECTS OF WARMING ON TREE SPECIES RECRUITMENT IN DECIDUOUS FORESTS OF THE EASTERN UNITED STATES MARINE BIOLOGICAL LABORATORY, 36213, 01 Jan 2008–31 Dec 2013. Amount: $ 35,806 (US), Role: Principal investigator of Principal investigator of Whitehall Forest Warming facility. Conducted vegetation and environmental research.

16. SOUTHERN APPALACHIA ON THE EDGE: EXURBANIZATION AND CLIMATE INTERACTION IN THE SOUTHEAST NATIONAL SCIENCE FOUNDATION, 0823293, 01 Nov 2008–31 Oct 2014. Amount: $ 1,119,999 (US), Role: Co-investigator of biogeochemical nitrogen mineralization rates of Coweeta elevation gradient plots and contributed to Coweeta LTER Renewal grant.

Courses Taught

Spring 2025	Ecosystems of the World (Honors) (ECOL 3880H)
	Global Climate Change (ECOL 2100)
	Master's Research (ECOL 7000)
	Master's Thesis (ECOL 7300)
	Laboratory Group Meeting (ECOL 8050)
	Doctoral Research (ECOL 9000)
	First-Year Odyssey Seminar (FYOS1001)
Fall 2024	Ecology of Global Climate Change (Honors) (ECOL 4120H)
	Master's Research (ECOL 7000)
	Master's Thesis (ECOL 7300)
	Laboratory Group Meeting (ECOL 8050)
	Doctoral Research (ECOL 9000)
	First-Year Odyssey Seminar (FYOS 1001)
Summer 2024	Master's Thesis (ECOL 7300)
	Doctoral Research (ECOL 9000)
Spring 2024	Master's Research (ECOL 7000)
	Master's Thesis (ECOL 7300)
	Laboratory Group Meeting (ECOL 8050)
	Terrestrial Biogeochemical Cycling (ECOL 8850)
	Terrestrial Biogeochemical Cycling (ECOL 8850L)
	Doctoral Research (ECOL 9000)

	First-Year Odyssey Seminar (FYOS 1001)
	Terrestrial Biogeochemical Cycling (PBIO 8850)
	Terrestrial Biogeochemical Cycling (PBIO 8850L)
Fall 2023	Global Climate Change: Past, Present, and Future (ECOL 2100)
	Master's Research (ECOL 7000)
	Laboratory Group Meeting (ECOL 8050)
	Doctoral Research (ECOL 9000)
	First-Year Odyssey Seminar (FYOS 1001)
Summer 2023	Doctoral Research (ECOL 9000)
Spring 2023	Global Climate Change: Past, Present, and Future (ECOL 2100)
	Ecosystems of the World (Honors) (ECOL 3880H)
	Undergraduate Research Thesis (or Final Project) (ECOL 4990R)
	Laboratory Group Meeting (ECOL 8050)
	Doctoral Research (ECOL 9000)
Fall 2022	Senior Seminar (ECOL 4950)
	Laboratory Group Meeting (ECOL 8050)
	Doctoral Research (ECOL 9000)
	First-Year Odyssey Seminar (FYOS 1001)
Spring 2022	Global Climate Change: Past, Present, and Future (ECOL 2100)
	Directed Reading (ECOL 3900)
	Faculty-Mentored Undergraduate Research I (ECOL 4960R)
	Master's Research (ECOL 7000)
	Master's Thesis (ECOL 7300)
	Terrestrial Biogeochemical Cycling (ECOL 8850)
	Terrestrial Biogeochemical Cycling (ECOL 8850L)
	First-Year Odyssey Seminar (FYOS 1001)
Fall 2021	Faculty-Mentored Undergraduate Research I (ECOL 4960R)
	Master's Research (ECOL 7000)
	First-Year Odyssey Seminar (FYOS 1001)
Spring 2021	Global Climate Change: Past, Present, and Future (ECOL 2100)
	Ecosystems of the World (Honors) (ECOL 3880H)
	Master's Research (ECOL 7000)

	Problems in Ecology (ECOL 8990)
Fall 2020	Master's Research (ECOL 7000)
	Master's Thesis (ECOL 7300)
	Problems in Ecology (ECOL 8990)
	First-Year Odyssey Seminar (FYOS 1001)
Spring 2020	Global Climate Change: Past, Present, and Future (ECOL 2100)
	Master's Thesis (ECOL 7300)
	First-Year Odyssey Seminar (FYOS 1001)
Fall 2019	Master's Research (ECOL 7000)
	First-Year Odyssey Seminar (FYOS 1001)
Spring 2019	Global Climate Change: Past, Present, and Future (ECOL 2100)
	Ecosystems of the World (Honors) (ECOL 3880H)
	Master's Research (ECOL 7000)
Fall 2018	Senior Seminar (ECOL 4950)
	Master's Research (ECOL 7000)
	First-Year Odyssey Seminar (FYOS 1001)
	Forest Soils, Hydrology and Environmental Systems Problems (WASR 8980)
Spring 2018	Terrestrial Biogeochemical Cycling (CRSS 8850)
	Terrestrial Biogeochemical Cycling (CRSS 8850L)
	Global Climate Change: Past, Present, and Future (ECOL 2100)
	Terrestrial Biogeochemical Cycling (FORS 8850)
	Terrestrial Biogeochemical Cycling (FORS 8850L)
	First-Year Odyssey Seminar (FYOS 1001)
Fall 2017	Ecological Basis of Environmental Issues (Honors) (ECOL 1000H)
	First-Year Odyssey Seminar (FYOS 1001)
Spring 2017	Global Climate Change: Past, Present, and Future (ECOL 2100)
	Ecosystems of the World (Honors) (ECOL 3880H)
Fall 2016	Ecological Basis of Environmental Issues (Honors) (ECOL 1000H)
Summer 2016	Doctoral Dissertation (ECOL 9300)

Spring 2016	Global Climate Change: Past, Present, and Future (ECOL 2100)
	Terrestrial Biogeochemical Cycling (ECOL 8850)
	Terrestrial Biogeochemical Cycling (ECOL 8850L)
	Doctoral Dissertation (ECOL 9300)
	Terrestrial Biogeochemical Cycling (FORS 8850)
	Terrestrial Biogeochemical Cycling (FORS 8850L)
	Terrestrial Biogeochemical Cycling (PBIO 8850)
	Terrestrial Biogeochemical Cycling (PBIO 8850L)
Fall 2015	Master's Research (ECOL 7000)
	Doctoral Dissertation (ECOL 9300)
Summer 2015	Doct Dissertation (ECOL 9300)
Spring 2015	Glob Clima Change (ECOL 2100)
	Ecosystems of World (ECOL 3880H)
	Directed Reading (ECOL 3900)
	Doct Dissertation (ECOL 9300)
Fall 2014	Cross-Discipl Ecol (ECOL 8030)
	Doctoral Research (ECOL 9000)
	Doct Dissertation (ECOL 9300)
Summer 2014	Doctoral Research (ECOL 9000)
	Doct Dissertation (ECOL 9300)
Spring 2014	Terr Biogechem Cycl (CRSS 8850)
	Ter Biogeo Cycl Lab (CRSS 8850L)
	Glob Clima Change (ECOL 2100)
	Glob Clima Change (ECOL 2100)
	Terr Biogechem Cycl (ECOL 8850)
	Ter Biogeo Cycl Lab (ECOL 8850L)
	Doctoral Research (ECOL 9000)
	Doct Dissertation (ECOL 9300)
	Terr Biogechem Cycl (PBIO 8850)
	Ter Biogeo Cycl Lab (PBIO 8850L)
Fall 2013	Cross-Discipl Ecol (ECOL 8030)
	Doctoral Research (ECOL 9000)

Summer 2013	Master's Research (ECOL 7000)
	Doctoral Research (ECOL 9000)
Spring 2013	Glob Clima Change (ECOL 2100)
	Ecosystems Of World (ECOL 3880H)
	Research (ECOL 4960)
	Master's Research (ECOL 7000)
	Ecol Teaching Intrn (ECOL 7360)
	Lab Group Meeting (ECOL 8050)
	Doctoral Research (ECOL 9000)
Fall 2012	Master's Research (ECOL 7000)
	Lab Group Meeting (ECOL 8050)
	Doctoral Research (ECOL 9000)
Summer 2012	Research (ECOL 4960)
	Doctoral Research (ECOL 9000)
Spring 2012	Terr Biogechem Cycl (CRSS 8850)
	Ter Biogeo Cycl Lab (CRSS 8850L)
	Glob Clima Change (ECOL 2100)
	Spcl Topics Ecology (ECOL 3480)
	Master's Research (ECOL 7000)
	Master's Thesis (ECOL 7300)
	Terr Biogechem Cycl (ECOL 8850)
	Ter Biogeo Cycl Lab (ECOL 8850L)
	Doctoral Research (ECOL 9000)
	Terr Biogechem Cycl (FORS 8850)
	Ter Biogeo Cycl Lab (FORS 8850L)
	Terr Biogechem Cycl (PBIO 8850)
	Ter Biogeo Cycl Lab (PBIO 8850L)

Fall 2011	Master's Research (ECOL 7000) Master's Thesis (ECOL 7300)
	Lab Group Meeting (ECOL 8050)
	Doctoral Research (ECOL 9000)
Summer 2011	Master's Research (ECOL 7000)
	Master's Thesis (ECOL 7300)
	Doctoral Research (ECOL 9000)
Spring 2011	Glob Clima Change (ECOL 2100)
	Ecosystems Of World (ECOL 3880H)
	Master's Research (ECOL 7000)
	Master's Thesis (ECOL 7300)
	Lab Group Meeting (ECOL 8050)
	Problems In Ecology (ECOL 8990)
	Doctoral Research (ECOL 9000)
Fall 2010	Master's Research (ECOL 7000)
	Master's Thesis (ECOL 7300)
	Lab Group Meeting (ECOL 8050)
	Doctoral Research (ECOL 9000)
Summer 2010	Master's Research (ECOL 7000)
	Doctoral Research (ECOL 9000)
Spring 2010	Glob Clima Change (ECOL 2100)
	Master's Research (ECOL 7000)
	Lab Group Meeting (ECOL 8050)
	Terr Biogechem Cycl (ECOL 8850)
	Ter Biogeo Cycl Lab (ECOL 8850L)
	Doctoral Research (ECOL 9000)
	Terr Biogechem Cycl (FORS 8850)
	Ter Biogeo Cycl Lab (FORS 8850L)

Fall 2009	Senior Seminar (ECOL 4950) Research (ECOL 4960) Master's Research (ECOL 7000)
	Lab Group Meeting (ECOL 8050)
	Doctoral Research (ECOL 9000)
Summer 2009	Ungrad Research Bio (BIOL 4960)
	Master's Research (ECOL 7000)
Spring 2009	Glob Clima Change (ECOL 2100)
	Directed Reading (ECOL 3900)
	Master's Research (ECOL 7000)
	Master's Research (ECOL 7000)
	Problems In Ecology (ECOL 8990)
Fall 2008	Ungrad Research Bio (BIOL 4960)
	Environment Issues (ECOL 1000)
	Environ Issues Lab (ECOL 1000L)
	Master's Research (ECOL 7000)
	Biogeochem Seminar (ECOL 8260)
Spring 2008	Senior Seminar (ECOL 4950)

Professional Service

Broadcast interviews

Morning Edition NPR, 30 Aug 2023
Interviewer: Emanuel G, Interviewee: Mohan J

The Weather Channel Weather Group : The Pattrn Show on Sustainability & Climate Change, 14 Jul 2022
The Weather Channel, Super Poison Ivy: High atmospheric CO2 greatly benefits poison ivy (Toxicodendron radicans), Interviewer: Hatton K, Interviewee: Mohan JE

UGA academics fight climate change through Drawdown Georgia, 24 Jun 2022
Red & Black UGA student newspaper, Drawdown Georgia Project, Interviewer: Lacina B

Athens-Clark County High School Completion Initiative, Inc., 26 Sep 2019
ACC School District "Education Matters.", Importance of Global Climate Change for Youth. Internet "Education Matters" radio broadcast with high school students as interviewers, Interviewer: Blow C, Interviewee: Mohan JE

WUGA-TV News, 15 Nov 2016
Grady Newsource, Interviewer: Reid E, Interviewee: Mohan J

Consulting

International

Environmental Impacts of Floods, *31 Dec 2019–Present*
Client type: College students
Student interview for a UGA BIOL 1108 class on the topic of climate change. Students work in a group and select their own focused topic

Global Climate Change and Oceans, *30 Oct 2019–Present*
Client type: College students
Student interview for a UGA BIOL 1108 class on the topic of climate change. Students work in a group and select their own focused topic

Athens-Clark Public Library, *Jun 2009*
Client type: Client unspecified

National

Hurricane Impacts on Crops, *30 Dec 2019–Present*
Client type: College students
Student interview for a UGA BIOL 1108 class on the topic of climate change. Students work in a group and select their own focused topic

Regional

Climate Change and Bark Beetles in Montana Forests, *31 Oct 2019–Present*
University of Georgia
Client type: College students
Student interview for a UGA BIOL 1108 class on the topic of climate change. Students work in a group and select their own focused topic

Editorships

International

Frontiers in Forests and Global Change, **Promoted to Associate Editor, Jacqueline E. Mohan** (Journal/Journal article), *06 Jun 2022–Present*

Frontiers in Forests and Global Change, **Jacqueline E. Mohan, Review Editor, University of Georgia, Odum School of Ecology, #517 Biological Sciences Building, Athens, GA, 30602, United States** (Journal/Journal article),
06 Oct 2018–06 Jun 2022
Review Editor

PLoS ONE, (Journal/Journal article), *Jan 2017–Present*

Educational events

International: Symposium

National Geographic "Explorers" webinar "Untold Histories"
Educational Webinar

Regional: Conference

Drawdown Georgia Equity Webinar
Webinar Workshop

University: Workshop

"UGA Writing Intensive" Workshop
Workshop

Educational/Outreach presentations

International: Symposium

KEYNOTE SPEAKER: Ecosystems & Climate: Focus on “Global Georgia” & What Can We Do?, *06 Oct 2020*
Global Climate Action SymposiumGeorgia Technical University, Atlanta, Georgia
Invited, Keynote, Role: Presenter, Target audience: Other

International: Event Type unspecified

18 Jun 2012–Present
Organization for Tropical Studies, San Vito, Costa Rica
Invited
Taught Global Climate Change lecture to students in the Native American and Pacific Islander Research Experience for undergraduates program. Las Cruces, OTS in Costa Rica. International students

International: Seminar

ECOL Costa Rica Live, *10 Jan 2012–07 May 2012*
UGA Office of International Education, Athens, GA and San Luis, Costa Rica

Target audience: Faculty/Staff
Number of participants: 50, (Partially at a distance (>50%))
Test of the UGA web connection to Costa Rica

National: Event Type unspecified

18 Feb 2012–28 Feb 2012
Climate Science Rapid Response Team Washington, DC Op-Ed, Washington, DC, DC, United States
Co-author of Op-Ed piece aimed for February 28, 2012 informing citizens about the role of greenhouse gases in current, past, and future climates and commenting on the US EPA decision to regulate GHG emissions as a matter of public health. On this date the US District Court of Appeals will begin deliberation on the EPA's 2009 decision

2011–Present
Georgia Climate Change Coalition, Athens, GA
Invited
Invited speaker for one of the first meetings of the Athens-based group initiated by trout fishermen concerned about climate change impacts on their way of life. This group includes many UGA faculty and students in addition to the Athens general public. We meet once per month

Regional: Event Type unspecified

Jun 2011–Present
True South AM Radio, Athens, GA
Invited
Invited speaker for the Inaugural launch of Athens-based True South AM radio show on Saturday mornings

State: Seminar

Drawdown Georgia Project Tracking Climate Solutions Seminar Series: #5: Land Sinks, *05 Jan 2024*
Target audience: Professionals

State: Conference

Geographically Based Variation in Red Maple (Acer rubrum) Spring Phenology Responses to Soil Warming: Implications for Carbon Sequestration and the Drawdown Georgia Project, *16 May 2023*
Role: Presenter, Target audience: General public

Responses of Invertebrate Herbivory on Temperate Tree Species to Soil Warming in the Georgia Piedmont, *16 May 2023*
Georgia Climate Conference
Target audience: General public

Local: Guest lecture

Protecting Planet Earth, *20 Jun 2018–Present*
Target audience: Seniors

Local: Event Type unspecified

Jun 2009
Athens-Clark Library Book Club, Athens, GA, United States, Clarke County
Invited
I aided the reading group on interpreting a recent article discussing exploration of arctic fossil fuels becoming available to to climate warming, and presented an hour-long seminar on the latest science of climate warming

Scope unspecified: Event Type unspecified

Global Climate Change: Past, Present & Future, *Mar 2014–Present*

Event administration

International: Symposium

Event administrator, **ESA 2016 Symposium 11720 "Eco-Evolutionary Dynamics in Anthropocene Ecosystems"**, *10 Aug 2016–Present*

International: Event Type unspecified

Role unspecified, **Improving Classroom Connections between Costa Rica & Athens**, *15 Nov 2013–15 Nov 2014*
CTL grant proposal to fund improved linkages between Costa Rica and Athens with Ecology; Climate & Society Initiative (unofficial); UGA Office of International Education; Internationalization of the UGA education

Role unspecified, **Costa Rica Live: Bringing the Rain Forests of San Luis to the Athens UGA Campus**, *May 2011–Present*
OIE grant to fund technology to develope Costa Rica Live! Fist-Year Odyssey course with Ecology; Climate & Society Initiative (unofficial); UGA Office of International Education; Internationalization of the Athens UGA education

Event judging

International: Conference

Buell Award Competition Ecological Society of America's 2019 Annual Meeting, *12 Aug 2019–16 Aug 2019*
The Murray F. Buell Award is given each year to the best student paper presentation at the annual ESA meeting

Ecological Society of America Buell Award, *06 Aug 2018–10 Aug 2018*
The Murray F. Buell Award is presented to the Best Student Paper presentation at the annual ESA meeting

Ecological Society of America 2017 Annual Meeting, *06 Aug 2017–11 Aug 2017*
The Murray F. Buell Award is presented to the Best Student Paper presentation at the annual ESA meeting

Ecological Society of America 2016 Annual Meeting, *07 Aug 2016–Present*
The Murray F. Buell Award is presented to the Best Student Paper presentation at the annual ESA meeting

Ecological Society of America, *09 Aug 2015–Present*
The Murray F. Buell Award is presented to the Best Student Paper presentation at the annual ESA meeting

Ecological Society of America, *03 Aug 2014–Present*
The Murray F. Buell Award is presented to the Best Student Paper presentation at the annual ESA meeting

Odum School GSS, *16 Jan 2009–Present*
Annual graduate student presentation of research for the Odum School of Ecology & prospective graduate students with multi-national participants

UGA Odum School Graduate Student Symposium, *18 Jan 2008–19 Jan 2008*
Annual Time Commitment (hrs): 4.0

National: Symposium

OSE Graduate Student Symposium, *23 Jan 2015–Present*
Graduate Student Symposium, *Jan 2017–Present*

Event participation

International: Conference

USGS Powell Center For Analysis & Synthesis, *15 May 2017–19 May 2017*
Invited group, funded by USGS, to synthesize global data on soil respiration response to warming from manipulated ecosystem warming experiments. Resulted in Carey et al. 2016 paper in PNAS

USGS Powell Center For Analysis & Synthesis, *16 May 2016–20 May 2016*

State: Conference

Georgia Climate Conference, *15 May 2023–17 May 2023*
Georgia Climate Project https://www.2023georgiaclimateconference.org/, Georgia Climate Project https://www.2023georgiaclimateconference.org/, University of Georgia

Extracurricular advising/mentoring

Local

Informal research advisor (K-12 student), *Jul 2017–Aug 2017*
Number of advisees: 2
Annual Time Commitment (hrs): 30.0
Assisting with research at my Whitehall Forest Soil Warming Facility in Athens, GA. Julia and her mother Kim helped measure plant size, amounts of insect herbivory, and soil temperature and % moisture for soil respiration measurements

Media distribution

Why Poison Ivy Loves Climate Change, *30 Aug 2023*
Event type: This was an interview on national NPR stations including out WUGA here in Athens. It was a product of WGBH in Boston. SCHOLARSHIP - According to Google Scholar, as of 7 January 2024 I have been cited 8665 times, 3636 times since 2019. I continued to work with the Drawdown Georgia Project funded by the Ray C. Anderson Foundation ($20,500 to UGA). I lead on the ecosystem carbon Land Sinks of Georgia, representing our extensive forests plus afforestation efforts and coastal wetlands as well as inland Wetlands and Urban Trees. In 2023, I was able to continue on my National Geographic Society grant ($30 k) and was able to travel to Harvard Forest to collect final data in July, as well as continue research at my Whitehall Forest soil warming facility. In addition, I continued as a Co-PI on an NSF $30 million grant proposal lead by Mandy Joye (UGA) and Annalisa Bracco (GA Tech) entitled “UPCycle” for "Understanding Past Carbon cycles to inform future carbon solutions." While extensive work on this NSF proposal continued into 2023 including a trip to GA Tech in January 2023 and a virtual site-visit by NSF in February 2023 and including an all-night question answering session, the proposal was not ultimately funded. My Whitehall Forest Soil Warming Facility (WFWF) continues to attract collaborative research by other labs which has been a long-term goal of mine. We currently have another paper published in 2023 in Ecological Etymology "Warming promotes non-native invasive ants while inhibiting native ant communities." We have a manuscript in review with Functional Ecology investigating how ants' control rates of wood decomposition by termites at my warming site and how this is more important than direct warming impacts

on decomposition rates. A second manuscript was published in 2023 with Biogeochemistry from my adjacent NSF funded Macrosystem Biology plots at Whitehall stemming from my Lab's work with lead author Mark Bradford further investigating impacts on coarse woody debris decomposition. In addition, collaboration with a soil scientist at Emory resulted in another collaborative research project at WFWF which resulted thus far in an AGU 2023 presentation "Decoding the Hidden Mechanisms of Soil Carbon Cycle in Response to Climate Change" by Y Du, JE Mohan, P Frankson, and D Sihi. EDUCATING/MENTORING – The Mohan Lab includes 3 graduate students Christian Brown (PhD), Nathan Ashley (currently an MS) and Ben Frock (MS). In addition we included 5 undergraduate students in in 2023 and will expand with students from my Fall 2023 Global Climate Change course in January 2024. In 2023 I served on the doctoral committees of Mia Rochford (Jill Anderson, Genetics) and Clayton Hale (Megan Demarche, Plant Biology), both of whom included research at WFWF. Finally, I continued collaborative work at WFWF with Dr. Debjani Sihi's Emory Lab mentioned above in the AGU presentation, and look forward to expanding on their laboratory work and my WFWF field studies in the new year. In 2023 I co-taught 1 ECOL class (ECOL 8850H) and sole taught another 2 (ECOL 2100), in addition to FYO courses. I continued teaching my ECOL 2100 Global Climate Change: Past, Present and Future class, which I developed and is now one of the core classes for the Ecology AB degree. In 2022, I taught FYO 1001 Global Climate Change in both the spring and fall semesters. My past FYOS classes have attracted non-Ecology majors to switch to majoring in Ecology (SB and AB) and pursuing research in my Lab. Finally in 2023, and working with the OSE's Undergraduate Program Committee, I developed a new class with an updated course content and title ECOL 4120H "Ecology of Global Climate Change." This class is designed for Ecology majors seeking an SB degree (who are not required to take my ECOL 2100 "Global Climate Change" class as AB majors are) as well as other top science students to cover the fundamentals of climate change in a more advanced fashion including student participation and discussion. SERVICE - In 2023 I served again on the OSE Graduate Program Committee as well as the OSE Seminar Committee. My Lab and I assisted with the state-wide Georgia Climate Conference 15-17 May 2023, where we presented 3 invited posters. I continued to serve as Land Sink Lead for the Drawdown [Atmospheric CO2] Georgia Project which involves web meeting for academics, professional and public citizen scientists several times a year. Finally in 2023 I continued to avail myself for interviews with UGA students and with the media who had questions about climate change and impacts on society. In 2023 my research on poison ivy and rising atmospheric CO2 research was covered a couple of times on NPR including Morning Edition on 30 August 2023 Link is: https://www.npr.org/2023/08/30/1196712560/why-poison-ivy-loves-climate-change Mohan and others were interviewed about Mohan's research on poison ivy and elevated atmospheric CO2 levels, and other poison ivy information

Memberships: Board

International

Frontiers in Forests and Global Change (Board member), *10 Sep 2018–Present*
Frontiers Editorial Office, Lausanne, Switzerland

Journal of Plants and Soils (Board member), *06 Aug 2018–Present*
Peer-reviewed scientific journal

Memberships: Committee

International

(Member), *2009–Present*
Climate Science Rapid Response Team
Annual time commitment (hrs): 30.0
Appointed member of international team of 100+ scientists - organized by member of the National Academy of Sciences - to respond to communicate climate science to the media, congressional staffers, and the public

National

Doctoral Committee - Callie Oldfield (Member), *2017–Present*

Doctoral Committee - Dexter Strother (Member), *2017–Present*

University

Luke Snyder's Graduate PhD Committee (Member), *2010–Present*

Josh Lobe's' MSc Committee (Member), *2009–Present*

Thomas Prebyl's PhD Committee (Member), *2010–Present*

Megan Machmuller's PhD Committee (Chair), *Aug 2009–Present*

Peter Baas' PhD Committee (Chair), *Aug 2009–Present*

Fern R. Lehman's Graduate MSc Committee (Chair), *Aug 2008–Present*
Serve as the Graduate Adviros for Fern R. Lehman's M.Sc. program

Shafkat Khan's PhD Committee (Chair), *Aug 2008–Present*
Graduate adviser for Shafkat I. Khan's graduate work at UGA

Katherine Bridge's Graduate MSc Committee (Chair), *Aug 2008–Jul 2011*

Kaitlin McLean's Graduate MSc Program Committee (Chair), *Aug 2008–May 2011*

Michael Strickland's PhD Committee (Member), *2008–2010*

John Kominoski's PhD Committee (Member), *2008–2009*

School/College

Sustainability Committee (Member), *2010–Present*
Annual time commitment (hrs): 12.0

Graduate Program Committee (Member), *2010–Present*
Annual time commitment (hrs): 40.0
Reading and advising whether to award or not graduate students' applications to the Odum School of Ecology, small grant proposals, Frank Golley Scholarship, etc. Advising on graduate courses and student responsibilities

Undergraduate Program Committee (Member), *2008–2010*
Annual time commitment (hrs): 25.0
Advising on undergraduate courses and source requirements at the Odum School of Ecology

Facilities Committee (Member), *2007–2010*
Annual time commitment (hrs): 10.0

Print interviews

Climate Change and Fall Foliage in Athens and Beyond, *02 Nov 2023*
Leftwhich SE, Mohan JE

Professional development

Writing NSF Grants, *13 Aug 2018–Present*
Workshop
Emory University & The Grant Writing Center

Dealing with Difficult People, *20 Jul 2018–Present*
Workshop
University of Georgia, Dr. Susanna Calvert

Increasing Grant Proposal Submissions, *06 Jul 2018–Present*
One-on-one meeting with Dr. Susanna Calvert; 2.5 hour duration
University of Georgia

Learning to Thrive, *19 Jun 2018–Present*
Workshop
University of Georgia, Dr. Susanna Calvert

Best Practices for Mentoring Graduate Students, *23 Feb 2017*
Training program
University of Georgia, Graduate School, Athens, Georgia, 30602-0001, United States; United States

R Statistical Software Programming, *23 Jan 2012–24 Jan 2012*
Workshop
University of Georgia, Athens, GA, United States
2-day intensive course on R analytical software

Communicating Climate Science to the Media, *17 Feb 2011–18 Feb 2011*
Workshop
Union of Concerned Scientists, Washington, D.C., D.C., United States
One of ten climate scientists invited to the 1.5-day workshop sponsored by the UCS

Designing Web Pages to Recruit Graduate Students, *Oct 2008–Present*
Seminar
UGA Graduate School Recruitment, Athens, GA, United States
A lunchtime seminar for faculty, with speakers from Genetics and other UGA departments, describing effective web page designs to recruit top-knotch graduate students

Professional mentoring (non-student)

Local

Mentored a high school student and her mother doing research at my Whitehall Forest Soil Warming Facility. (Mentee Type unspecified), *01 Jun 2016–06 Sep 2019*
Mentee: Doan J
Julia and her mother Kim assisted my lab with research during summers, weekends, and holidays at the Whitehall Forest Soil Warming Facility I initiated in 2008. In part due to her research experience Julia is now an undergraduate at Harvard University

Projects (e.g., applied research/instructional initiatives)

University

Georgia Initiative for Climate and Society, *Jan 2009–Present*
Co-contributor(s): Kooperman G; Shepherd JM; Yager P; Mote T; Lipp E; Cuomo C; Stooksbury D; Porter J; Kramer E; Mohan J
This faculty group seeks to collectively organize UGA research, teaching, and service centered around the theme of climate change and variability

Recruitment

University

Student Recruitment (Students recruitment), *Feb 2017–Present*

Graduate Student Symposium 2017 (Students recruitment), *Jan 2017–Present*
Judge for student research presentations

Reviewing/Refereeing: Conferences

International

Ecological Society of America, *07 Aug 2016–12 Aug 2016*
Organized invitational Symposium entitles "Eco-Evolutionary Dynamics in Anthropocene Ecosystems"

Reviewing/Refereeing: Grant proposals

International

National Science Foundation (DEB) - Ecosystems Cluster, *05 Dec 2018–07 Dec 2018*

National Science Foundation, Arlington, United States, *Mar 2017–Present*
Grant proposal reviewer panels for Macrosystems Biology under DEB's Emerging Frontiers cluster

National Science Foundation (DEB) Ecosystems, *05 Jan 2017–06 Jan 2017*
Reviewed proposals for (sadly) the last DEB Ecosystems Doctoral Dissertation Improvement Grant (DDIG)

National Science Foundation DEB Ecosystems DDIG Panel, Directorate for Biological Sciences, Division of Environmental Biology (DEB), Arlington, United States, *Jan 2017–Present*
Panel member for reviewing Doctoral Dissertation Improvement Grant (DDIG)

U.S. Department of Energy, *10 May 2016–13 May 2016*
Grant proposal reviewer for Belowground Ecology 2: Plant-Soil-Microbial Interactions Panel

National Science Foundation DEB Ecosystems Panel, *12 Jun 2013–Present*

National

Upcoming Environmental System Science FOA Review – Belowground Ecology 2: Plant-Soil-Microbial Interactions Panel, United States Department of Energy (DOE), Washington D.C., Washington D.C., United States, *04 Apr 2016–05 Apr 2016*
Number of applications reviewed/refereed: 12
Panel Member