Nina Wurzburger
Odum School of Ecology
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Education and Training:

University of California Davis	Environmental and Resource Science	B.S. 1997
University of California Davis	Soil Science	M.S. 2000
University of Georgia	Forest Resources	Ph.D. 2007

Research and Professional Experience:

Professor, Odum School of Ecology, University of Georgia	2025–present
Associate Professor, Odum School of Ecology, University of Georgia	2017–2025
Courtesy Faculty, Department of Plant Biology, University of Georgia	2018–present
Visiting Scholar, University of California Santa Cruz	2021
Assistant Professor, Odum School of Ecology, University of Georgia	2011–2017
Smithsonian Postdoctoral Fellow	2009–2010
Princeton University, Project Specialist	2007–2010
Princeton University, Lecturer	2007–2009
University of Georgia, Graduate Research Assistant	2004–2007
University of Georgia, Teaching Assistant	2001–2004
University of California Davis, Teaching Assistant	1998–2000
University of California Davis, Postgraduate Researcher	1997–1998
Harvard Forest, NSF undergraduate Intern (REU)	1997

Publications:

(in print or accepted, *peer reviewed & refereed, **invited submission, ^editorial, †graduate student, ¥undergraduate student)

58. *†Ottinger, SL, Scott, J, Miniat CF and **Wurzburger, N** 2026 Low light improves ability of oak seedlings to compete with mesophytes in nitrogen-rich soils *Forest Ecology & Management* 601, 123300.

57. *†Bonilla KA, †Motes, JI, Hicks Pries, CH and **Wurzburger, N** 2026 Soil particulate organic matter is related to ericoid mycorrhizal shrubs, not ectomycorrhizal trees, in a temperate forest, *Ecosystems* 29 (1), 9.

56. *Kou-Giesbrecht, S, Reis Ely, CR, Perakis, SS, Cleveland, CC, Menge, DNL, Reed, SC, Taylor, BN, Batterman, SA, Crews, TE, Dynarski, KA, Gei, M, Gundale, MJ, Herridge, DF, Jovan, SE, Peoples, MB, Piipponen, J, Rodriguez-Caballero, E, Salmon, VG, Soper, FM, Staccone, AP, Weber, B, Williams, CA and **Wurzburger, N** 2025 Overestimated natural biological nitrogen fixation translates to an exaggerated CO_2 fertilization effect in Earth System Models, *Proceedings of the National Academy of Sciences* 122 (48), e2514628122.

55. *†Taylor, MK, Hagan, DL, Coates, TA, DeFeo, JA, Callaham, MA, Mohr, HH, Waldrop, TA and **Wurzburger, N** 2025 Reducing resilience debt: Mechanical feeling and repeated prescribed fires may sustain eastern oak forests *Ecological Applications* 35(7), e70125.

54. *Reis Ely, CR, Perakis, SS, Cleveland, CC, Menge, DNL, Reed, SC, Taylor, BN, Batterman, SA, Clark CM, Crews, TE, Dynarski, KA, Gei, M, Gundale, MJ, Herridge, DF, Jovan, SE, Kou-Giesbrecht, S, Peoples, MB, Piipponen, J, Rodriguez-Caballero, E, Salmon, VG, Soper, FM, Staccone, AP, Weber, B, Williams, CA and **Wurzburger, N** 2025 Global terrestrial biological nitrogen fixation and its modification by agriculture, *Nature* 643(8072), 705-711.

53. *Reis Ely, CR, Perakis, SS, Cleveland, CC, Menge, DNL, Reed, SC, Batterman, SA, Crews, TE, Dynarski, KA, Gei, M, Gundale, MJ, Sarah Jovan, Kou-Giesbrecht, S, Peoples, MB, Rodriguez-Caballero, E, Salmon, VG, Soper, FM, Staccone, AP, Taylor, BN, AP, Weber, **Wurzburger, N** 2025 A global dataset of terrestrial biological nitrogen fixation, *Scientific Data*, #SDATA-25-00665A.

52. *†Fitch, A, Goldsmith, S, Lankau, RA, **Wurzburger, N**, Short, Z, Vrattos, G, Laurent, E and Hicks Pries, C 2024 Mycorrhizal associations mediate rhizodeposition, but not soil carbon storage, under elevated nitrogen availability, *Global Change Biology*, 30(8), e17446.

51. *†Tierney, J and **Wurzburger, N** 2024 Phosphorus controls symbiotic nitrogen fixation in fire-dependent longleaf pine savannas, *Journal of Ecology*, 112:9, 2057-2068.

50. *Wong, MY, **Wurzburger, N,** Hall, JS, Wright, SJ, Tang, W, Hedin, LO, Saltonstall, K, van Breugel, M, and Batterman, SA 2024 Trees adjust nutrient acquisition strategies across tropical forest secondary succession, *New Phytologist*, 243(1), 132-144.

49. *Rains, KC, Kraus TEC, Bledsoe CS and **Wurzburger N** 2024 Experimental evidence that ericoid mycorrhizal shrubs can outcompete ectomycorrhizal trees for nitrogen in tannin-rich litter, *Ecosphere*, 15(3) e4818.

48. *Liu, L, Zhang, Z, Wang, X, Zhang, R, Wang, M, **Wurzburger, N**, Li, J and Zhang, J 2023 Urbanization reduces soil microbial network complexity and stability in the megacity of Shanghai, *Science of the Total Environment*, 893, 164915.

47. *Shao, S, **Wurzburger, N**, Sulman, B and Hicks Pries, C 2023 Ectomycorrhizal effects on decomposition are highly dependent on fungal traits, climate and litter properties: A model-based assessment, *Soil Biology and Biochemistry*, 184 109073.

46. ***Wurzburger, N**, Elliott, K and Miniat CF 2023 Forest mycorrhizal dominance depends on historical land use and nitrogen-fixing trees, *Journal of Applied Ecology*, 60 1551-1561.

45. *†Ottinger, SL, Miniat, CF, and **Wurzburger, N** 2023 Nitrogen and light regulate symbiotic nitrogen fixation by a temperate forest tree, *Oecologia*, 201 565-574.

44. *Hicks Pries, C, Lankau, R, ¥Ingham, GA, Legge, E, Krol, O, Forrester, J, †Fitch, A and **Wurzburger, N** 2023 Differences in soil organic matter between EcM- and AM-dominated forests depend on tree and fungal identity, *Ecology*, 104:3.

43. *Cleveland, CC, Reis, CRG, Perakis, SS, Dynarski, KA, Batterman, SA, Crews, TE, Gei, M, Gundale, MJ, Menge, DNL, Peoples, MB, Reed, SC, Salmon, VG, Soper, FM, Taylor, BN, Turner MG and **Wurzburger, N** 2022 Exploring the role of cryptic nitrogen fixers in terrestrial ecosystems: A frontier in nitrogen cycling research. *Ecosystems* 25 1653-1669.

42. *__Wurzburger, N__, †Motes, JI and Miniat, CF 2022 A framework for scaling symbiotic nitrogen fixation using the most widespread nitrogen-fixer in eastern deciduous forests of the United States, *Journal of Ecology*, 110, 569-581.

41. *Liu, L, Barberán, A, Gao, C, Zhang, Z, Wang, M, **Wurzburger, N**, Wang, X, Zhang, R, Li, J and Zhang, J 2022 Impact of urbanization on soil microbial diversity and composition in the megacity of Shanghai, *Land Degradation and Development,* 33 282-293.

40. Scott, JL, Miniat, CF, †Motes, J, †Ottinger, SL, **Wurzburger, N** and Elliott, KJ 2021 Improved allometric equations for black locust (*Robinia pseudoacacia*) in the Coweeta Basin, USDA Forest Service Research Paper SRS-64.

39. *Miniat, CF, Oishi, AC, Bolstad, PV, Jackson, RJ, Liu, N, Love, JP, Pringle, CM, Solomon, KJ, **Wurzburger, N** 2021 The Coweeta Hydrologic Laboratory and the Coweeta Long-Term Ecological Research Project, *Hydrologic Processes*, 35:7.

38. *Freschet, GT, Pagès, L, Iversen, CM, Comas, LH, Rewald, B, Roumet, C, Klimešová, J, Zadworny, M, Poorter, H, Postma, JA, Adams, TS, Bagniewska-Zadworna, A, Blancaflor, EB, Brunner, I, Cornelissen, JHC, Garnier, E, Gessler, A, Hobbie, SE, Lambers, H, Meier, IC, Mommer, L, Picon-Cochard, C, Rose, L, Ryser, P, Scherer-Lorenzen, M, Soudzilovskaia, NA, Stokes, A, Sun, T, Valverde-Barrantes, OJ, Weemstra, M, Weigelt, A, **Wurzburger, N**, York, LM, Batterman, SA, Bengough, AG, Gomes de Moraes, M, Janeček, Š, Salmon, V, Tharayil, N & McCormack, ML 2021. A starting guide to root ecology: strengthening ecological concepts and standardizing root classification, sampling, processing and trait measurements. *New Phytologist*, 232:3, 973-1122.

37. *Freschet, GT, Roumet, C, Comas, LH, Weemstra, M, Bengough, AG, Rewald, B, Bardgett, RD, de Deyn, GB, Johnson, D, Klimešová, J, Lukac, M, McCormack, ML, Meier, IC, Pagès, L, Poorter, H, Prieto, I, **Wurzburger, N**, Zadworny, M, Bagniewska-Zadworna, A, Blancaflor, EB, Brunner, I, Gessler, A, Hobbie, SE, Iversen, CM, Mommer, L, Picon-Cochard, C, Postma, JA, Rose, L, Ryser, P, Scherer-Lorenzen, M, Soudzilovskaia, NA, Sun, T, Valverde-Barrantes, OJ, Weigelt, A, York, L & Stokes, A 2021. Root traits as drivers of plant and ecosystem functioning: current understanding, pitfalls and future research needs. *New Phytologist,* 232:3, 1123-1158.

36. *†Coughlin, AM, Shefferson, R, Clark, S and **Wurzburger, N** 2021 Plant-soil feedbacks and the introduction of *Castanea* (chestnut) hybrids to eastern North American forests, *Restoration Ecology*, 29 (3).

35. *†Carpenter, DO, †Taylor, MK, Callaham Jr, MA, Hiers, JK, Loudermilk, EL, O'Brien, JJ, and **Wurzburger, N** 2021 Benefit or liability? The ectomycorrhizal association may undermine tree adaptations to fire after long-term fire exclusion, *Ecosystems,* 24, 1059-1074.

34. *†Perreault, L, Forrester, JA, **Wurzburger, N**, and Mladenoff, DJ 2020 Emergent properties of downed woody debris in canopy gaps: A response of the soil ecosystem to manipulation of forest structure, *Soil Biology and Biochemistry*, 151, 108053.

33. *Ulyshen, M, Horn, S, Brownie, C, Strickland, MS, **Wurzburger, N** and Zanne, A 2020 Comparison of decay rates between native and non-native wood species in invaded forests of the southeastern U.S.: A rapid assessment, *Biological Invasions*, **22** 2619–2632.

32. *Liu, L, Zhu, K, **Wurzburger, N** and Zhang J 2020 Relationships between plant and soil microbial diversity vary across taxonomic groups and spatial scales, *Ecosphere*, 11(1) e02999.

31. *†Minucci, JM, Miniat, CF, and **Wurzburger, N** 2019 Drought sensitivity of an N_2-fixing tree may slow temperate deciduous forest recovery from disturbance, *Ecology*, 100(12) e02862.

30. *Brookshire, ENJ, **Wurzburger, N**, †Currey, B, Menge, DNL, Oatham, M and Roberts, C 2019 Symbiotic N fixation is sufficient to support net aboveground biomass accumulation in a humid tropical forest. *Scientific Reports*, 9: 7571.

29. *†Tierney, J, Hedin, LO, and **Wurzburger, N** 2019 Nitrogen fixation does not balance fire-induced nitrogen losses in longleaf pine savannas, *Ecology* 100(7) e02735.

28. *†Phillips, CA and **Wurzburger, N** 2019 Elevated rates of heterotrophic respiration in shrub-conditioned arctic tundra soils, *Pedobiologia- Journal of Soil Ecology* 72: 8-15.

27. *†Machmuller, MB, Ballantyne, F, Markewitz, D, Thompson, A, **Wurzburger, N**, Frankson, PT, Mohan, J. 2018 Temperature sensitivity of soil respiration in a low-latitude ecosystem varies by season and habitat but is unaffected by experimental warming. *Biogeochemistry* 141:63-73.

26. *†Ament, MR, †Tierney, JA, Hedin, LO, Hobbie, EA, and **Wurzburger, N** 2018 Phosphorus and species regulate N_2 fixation by herbaceous legumes in longleaf pine savannas *Oecologia* 187: 281-290.

25. ^**Wurzburger, N** and Clemmensen, KE 2018 From mycorrhizal fungal traits to ecosystems—and back again, *Journal of Ecology* 106: 463-467.

24. *Zhu, K, McCormack, ML, Lankau, RA, Egan, FF and **Wurzburger N** 2018 Association of ectomycorrhizal trees with higher carbon-to-nitrogen ratio soils is driven by smaller nitrogen not larger carbon stocks, *Journal of Ecology* 106: 454-535.

23. ***Wurzburger, N** and Brookshire, ENJ 2017 Experimental evidence that mycorrhizal nitrogen strategies affect soil carbon, *Ecology* 98(6) 1491-1497.

22. *†Minucci, JM, Miniat, CF, Teskey, R, and **Wurzburger, N** 2017 Tolerance or avoidance: drought frequency determines the response of an N_2-fixing tree. *New Phytologist* 215 (1), 434-442.

21. ****Wurzburger, N**, Brookshire, ENJ, McCormack, ML, and Lankau, RA 2017 Mycorrhizal fungi as drivers and modulators of terrestrial ecosystem processes. *New Phytologist* 213: 996-999.

20. *†Machmuller, MB, Mohan, JE, †Minucci, JM, †Phillips, CA and **Wurzburger, N** 2016 Season, but not experimental warming, affects the activity and temperature sensitivity of extracellular enzymes. *Biogeochemistry* 131(3): 255-265.

19. *†Taylor, MK, Lankau, RA, and **Wurzburger, N** 2016 Mycorrhizal associations of trees have different indirect effects on organic matter decomposition. *Journal of Ecology* 104: 1576-1584.

18. ***Wurzburger, N** 2016 Old growth temperate forests harbor hidden N-fixing bacteria. *New Phytologist* 210: 374-376.

17. ***Wurzburger, N** and Hedin, LO 2016 Taxonomic identity determines symbiotic N_2 fixation by canopy trees across lowland tropical forests. *Ecology Letters* 19: 62-70.

16. *†Collins, CG, Wright, SJ, and **Wurzburger, N** 2016 Root and leaf traits reflect distinct resource acquisition strategies in tropical lianas and trees. *Oecologia* 180:1037-1047.

15. ***Wurzburger, N** and Wright, SJ 2015 Fine root responses to fertilization reveal multiple nutrient limitation in a lowland tropical forest. *Ecology* 96: 2137-2146.

14. ***Wurzburger, N** and Miniat, CF 2014 Drought enhances symbiotic di-nitrogen fixation and competitive ability of a temperate forest tree. *Oecologia* 174:1117-1126.

13. *†Bunch, WC, Cowden, CC, **Wurzburger, N**, Shefferson, RP 2013 Geography and soil chemistry drive the distribution of fungal associations in a lady's slipper orchid, *Cypripedium acaule*. *Botany* 91(12):850-856.

12. *†Batterman, SA, **Wurzburger, N**, and Hedin, LO 2013 Nitrogen and phosphorus interact to control tropical N_2 fixation: A test in *Inga punctata. Journal of Ecology,* 101: 1400-1408.

11. ***Wurzburger, N**, Bellenger, JP, Kraepiel, AML, and Hedin, LO 2012 Molybdenum and phosphorus interact to constrain asymbiotic nitrogen fixation in tropical forests. *PLoS ONE* 7(3):e33710.

10. ***Wurzburger, N**, Higgins, BP and Hendrick, RL 2011 Ericoid mycorrhizal root fungi and their multi-copper oxidases from a temperate forest shrub. *Ecology and Evolution* doi: 10.1002/ece3.67.

9. *Wright, SJ, Yavitt, JB, **Wurzburger, N**, Turner, BL, Tanner, VJ, Sayer, EJ, Santiago, LS, Kaspari, M, Hedin, LO, Harms, KE, Garcia, MN, and Corre, MD 2011 Potassium, phosphorus, or nitrogen limit root allocation, tree growth, or litter production in a lowland tropical forest. *Ecology* 92: 1616-1625.

8. ***Wurzburger, N** and Hendrick RL 2009 Plant litter chemistry and mycorrhizal roots promote a nitrogen feedback in a temperate forest. *Journal of Ecology* 93: 528-536.

7. *Barron, AR, **Wurzburger, N**, Bellenger, JP, Kraepiel, AML, Wright, SJ, and Hedin, LO 2009 Molybdenum limitation of asymbiotic nitrogen fixation in tropical forest soils. *Nature Geoscience* 2: 42-45.

6. *†Nuckolls, AE, **Wurzburger, N**, Ford, CR, Hendrick, RL, Vose, JM, and Kloeppel BD 2009 Hemlock declines rapidly with hemlock woolly adelgid infestation: impacts on the carbon cycle of southern Appalachian forests. *Ecosystems* 12: 179-190.

5. *__Wurzburger, N__ and Hendrick RL 2007 Rhododendron thickets alter N cycling and soil extracellular enzyme activities in southern Appalachian hardwood forests. *Pedobiologia* 50: 563-576.

4. *Ford, CR, __Wurzburger, N__, Hendrick, RL, and Teskey, RO 2007 Soil DIC uptake and fixation in *Pinus taeda* L. seedlings and its C contribution to plant tissues and mycorrhizal fungi. *Tree Physiology* 27: 375-383.

3. *__Wurzburger, N__, Hartshorn, AS, and Hendrick, RL 2004 Ectomycorrhizal fungal community structure across a bog-forest ecotone in southeastern Alaska. *Mycorrhiza* 14: 383-389.

2. *__Wurzburger, N__, Bidartondo, MI, and Bledsoe, CS 2001 Characterization of *Pinus* ectomycorrhizas from mixed conifer and pygmy forests using morphotyping and molecular methods. *Canadian Journal of Botany* 79: 1211-1216.

1. *__Wurzburger, N__ and Bledsoe, CS 2001 Comparison of ericoid and ectomycorrhizal colonization and ectomycorrhizal morphotypes in mixed conifer and pygmy forests on the northern California coast. *Canadian Journal of Botany* 79: 1202-1210.

Manuscripts in review:

*McCulloch, LA, Taylor, BN, **Wurzburger, N** and Prescott, C Rethinking Symbiotic Nitrogen Fixation: Could Surplus Carbon Drive Unexpected Patterns of Resource Allocation? *Plant and Soil* (in revision).

* Menge, DNL, Reis Ely, CR, Perakis, SS, Kou-Giesbrecht, S Cleveland, CC, Reed, SC, Taylor, BN, Batterman, SA, Crews, TE, Dynarski, KA, Funk, JL, Gei, M, Griffin, KL, Gundale, MJ, Herridge, DF, Jovan, SE, Peoples, MB, Piipponen, J, Rodriguez-Caballero, E, Salmon, VG, Soper, FM, Staccone, AP, Weber, B, Wolf, AA and **Wurzburger, N** Global carbon investment in terrestrial biological nitrogen fixation (in review).

Chapters in books:

Batterman, SA and **Wurzburger, N** (2024) Biological nitrogen fixation, In *The First 100 Years of Research on Barro Colorado Island: Plant and Ecosystem Science*, ed. H. C. Muller-Landau and S. J. Wright: Smithsonian Institution Scholarly Press.

Reports:

Hinkle, CR, Oishi, AC and **Wurzburger, N** (2024) Optimizing DOE opportunities to research land-atmosphere interactions in the US Southeast: Workshop Report, DOE/SC-0220. US Department of Energy Office of Science, https://doi.org/10.2172/2440215.

Grants and Fellowships:

<u>Active:</u>

DOE ESS 2024-2027

Incorporating ericoid mycorrhizal shrubs into biogeochemical models. Total: $1,000,000 ($634,624 to PI Wurzburger), co-PI: Caitlin Hicks Pries (Dartmouth College), co-PI: Richard Lankau (University of Wisconsin), unfunded collaborator: Benjamin Sulman (Oak Ridge National Lab).

NSF DEB ES 2024–2027
Collaborative Research: Priority effects and persistent state shifts following wildfire and disease disturbance interactions. Total: $1,302,653 ($335,911 to co-PI Wurzburger), PI: Allison Simler-Williamson (Boise State University), co-PI: Richard Cobb (California Polytechnic and State University), co-PI: Margaret Metz (Lewis & Clark College), co-PI: Ross Meentemeyer (North Carolina State University).

USDA NIFA AFRI Foundational 2023–2027
How does long-term prescribed fire alter the abundance and stability of soil carbon in eastern forests? Total: $750,000 ($605,695 to PI Wurzburger), co-PI: Caitlin Hicks Pries (Dartmouth College), co-PI: Richard Lankau (University of Wisconsin).

Completed:

DOE Terrestrial Ecosystem Science 2019–2024
Testing mechanisms of how mycorrhizal associations affect forest soil carbon and nitrogen cycling, Total: $999,995 ($330,000 to co-PI Wurzburger), PI: Caitlin Hicks Pries (Dartmouth College), co-PI: Richard Lankau (University of Wisconsin), co-PI: Benjamin Sulman (Oak Ridge National Lab).

NSF DEB ES/PCE 2018–2023
Ecosystem response to the repeated interaction of disease and fire, $450,000 ($0 to co-PI Wurzburger), PI: David Rizzo (University of California Davis), co-PI: Ross Meentemeyer (North Carolina State University), co-PI: Richard Cobb (California Polytechnic and State University). *This proposal was submitted as an LTREB—all funds allocated to lead PI for data collection and management.*

NSF DEB 2017–2020
Coweeta LTER VII, Examining long-term southern Appalachian ecosystem dynamics through interactions and indirect effects, $5,120,000 ($250,000 to co-PI Wurzburger), lead PIs: Rhett Jackson (University of Georgia) and Chelcy Miniat (USDA FS).

Tall Timbers Research Station Subcontract 2017–2019
Landscape wildfire, duff consumption and ecosystem trajectories in the southern Appalachians. Total: $47,971 to PI Wurzburger.

UGA Global Research Collaboration Grant
Do soil nutrients constrain the carbon sink of tropical forests? Total: $5000 to PI Wurzburger 2017–2018

UGA OVPR Junior Faculty Research Grant 2017–2018
How do fire and disease interactions affect ecosystem resiliency? Total: $9,829 to PI Wurzburger.

NSF Dissertation Research 2016–2017
Do accelerated microbial-organic matter interactions feed back to promote shrub growth in arctic tundra? Total: $17,264 co-PI with PhD student Carly Phillips.

Department of Defense, Strategic Environmental Resource and Development Program 2013–2018
Controls Regulating Biological Nitrogen Fixation in Longleaf Pine Ecosystems: The Role of Fire and Stand Development. Total: $1,396,272 ($1,144,272 to PI Wurzburger), co-PIs: Robert Mitchell (Jones Center), Erik Hobbie (University of New Hampshire) and Lars Hedin (Princeton University).

USDA Forest Service Cooperative Agreement 2013-2016
Exploring the effect of drought on early successional forests of the southern Appalachians. Total: $25,000 to PI Wurzburger.

UGA Junior Faculty Research Grant 2012-2013
Mycorrhizal fungi as modulators of soil carbon in terrestrial ecosystems. Total: $12,557 to PI Wurzburger.

USDA Forest Service Cooperative Agreement 2011-2013
Exploring the effect of drought on early successional forests of the southern Appalachians. Total: $50,000 to PI Wurzburger.

Previous Awards:

Smithsonian Postdoctoral Fellowship	2009–2011
Various Graduate School Travel & Research Grants, University of Georgia ($4,500)	2003–2006
Graduate Student Grant, Society of Wetland Scientists, ($1,500)	2003
Grant-in-Aid of Research, Sigma Xi ($500)	2003
Martha Love May Memorial Scholarship ($2,000)	2003
University of Georgia Graduate School Assistantship ($60k)	2001–2003
Jastro Shields Research Fellowship, UC Davis ($1,500)	1999

Awards and Honors:

Outstanding Teaching Award, University of Georgia	2025
University of Georgia Presidential (Fred C. Davison) Early Career Award	2016
Faculty Instructor of the Year, Odum School of Ecology	2014
Best Oral Paper Award, Division S-7, Soil Science Society of America	2013
Outstanding Teaching Award, University of Georgia	2013
Harper Prize for best paper by young author, *Journal of Ecology*	2009
Best Paper of Session, Division S-7, Soil Science Society of America Annual Meeting	2005
Outstanding Teaching Assistant, University of Georgia	2005
Amazing Student Award, University of Georgia	2005
Blue Key Honor Society	2005

Oral Presentations:

Wurzburger, N Department of Energy, Environmental System Science PI Meeting, "Root responses and feedbacks to environmental change", April 14, 2025, Reston, VA (Invited).

†Ottinger, S, Miniat, C, Scott, J, Wurzburger, N Shedding Light on Oak Dominance in Southern Appalachian Forests Under Modern Nitrogen Conditions, The International Oak Symposium, Knoxville, TN, Oct 7, 2024 (Contributed).

†Taylor, MK, Hagan, DL, Coates, TA, DeFeo, JA, Callaham Jr., MA, Mohr, HH, Waldrop, TA, Wurzburger, N Evaluating 15 Years of Experimental Management Treatments in Southern Appalachian Forests of North Carolina, The International Oak Symposium, Knoxville, TN, Oct 7, 2024 (Contributed).

Wurzburger, N Managing ectomycorrhizal forests through the lens of biogeochemistry, International Conference on Mycorrhiza, Manchester, England, August 5, 2024 (Invited Keynote).

†Taylor, MK, Callaham, MA, and Wurzburger, N The view from below: A mesophication framework incorporating biogeochemistry, mycorrhizal fungi and soil food invertebrates, Ecological Society of America (ESA) Annual Meeting, Portland, OR, Aug 10, 2023 (Invited).

Wurzburger, N, Simler-Williamson, A, Frangioso, K, Metz, M, Cobb, R, Meentemeyer, R, and Rizzo, D Wildfire and tree disease promote the expansion of a nitrogen-fixing shrub in coastal California forests, Ecological Society of America (ESA) Annual Meeting, Portland, OR, Aug 7, 2023 (Contributed).

Wurzburger, N Forest dominance depends on historical land use and nitrogen-fixing trees. USDA Forest Service Southern Research Station, Center for Forest Watershed Research Colloquium, April 27, 2023 (Invited).

Wurzburger, N If you care about forests, it's time to think about microbes, University of Georgia Warnell School of Forestry and Natural Resources Seminar, Nov 3, 2022 (Invited).

Wurzburger, N A fix or a problem? Disturbance-induced nitrogen fixation and forest recovery, Cary Institute for Ecosystem Studies Seminar, Oct 10, 2019 (Invited).

Wurzburger, N, †Motes, JI, Elliot, KJ and Miniat, CF The rise and fall of N fixation following disturbance. Ecological Society of America (ESA) Annual Meeting, Louisville, KY, August 15, 2019 (Invited).

Wurzburger, N, Elliot, KJ and Miniat, CF Plant strategies for nutrient acquisition – an unconsidered dimension of forest "mesophication". North American Forest Ecology Workshop, June 24, 2019 in Flagstaff, AZ (Invited).

Miniat, CF, Elliot, KJ, Bolstad, PV, Oishi, AC, and Wurzburger, N Multiple dimensions of mesophication: A case study from Coweeta Hydrologic Lab. North American Forest Ecology Workshop, Flagstaff, AZ, June 24, 2019 (Invited).

O'Brien, JJ, Wurzburger, N, Loudermilk, EL, †Carpenter, D, Hiers, JK, Callaham, MA Jr. Does burning the O-horizon following long-term fire exclusion accelerate mesophication? North American Forest Ecology Workshop, Flagstaff, AZ, June 24, 2019 (Invited).

Wurzburger, N, †Motes, JI, Elliot, KJ and Miniat, CF Nitrogen legacies in southern Appalachian Forests. The Coweeta LTER Retrospective Symposium, Dillard, GA, May 28, 2019. (Invited)

Wurzburger, N A fix or a problem? Nitrogen fixation and forest resilience, Population Biology, Ecology and Evolution Seminar, Emory University, Feb 22, 2019 (Invited).

Wurzburger, N A fix or a problem? Disturbance-induced nitrogen fixation facilitates recovery, but contributes to declining forest resilience, Department of Plant Biology Seminar, UGA, Oct 22, 2018 (Invited).

Wurzburger, N A fix or a problem? Disturbance-induced nitrogen fixation facilitates recovery, but contributes to declining forest resilience, Department of Environmental Studies Seminar, UC Santa Cruz, Oct 8, 2018 (Invited).

Wurzburger, N, Elliott, KJ and CF Miniat Nitrogen fixation facilitates dominance of arbuscular mycorrhizal trees. Ecological Society of America (ESA) Annual Meeting, New Orleans, LA, August 9, 2018 (Contributed).

[¥]Motes, JI and N Wurzburger Evidence of high nitrogen fixation in early successional southern Appalachian forests. Coweeta Hydrologic Lab Summer Student Symposium, August 3, 2018 (Contributed).

O'Brien, JJ, Wurzburger, N, Hiers, JK, [†]Carpenter, D Can wildfire accelerate mesophication following long periods of fire exclusion in Appalachian forests? 79th Annual Meeting of Association of Southeastern Biologists, Myrtle Beach, SC March 28, 2018 (Contributed).

[†]Carpenter, D, Wurzburger, N, Heirs, K, O'Brien, J, Loudermilk, L Has long-term fire exclusion reduced the resiliency of southern Appalachian forests to wildfire? Odum School of Ecology Graduate Student Symposium, January 10, 2018 (Contributed).

[†]Carpenter, D, Wurzburger, N, Heirs, K, O'Brien, J, Loudermilk, L Does adaptation to fire predispose trees to post-fire mortality after a century of fire exclusion? The 7th Association of Fire Ecology International Fire Congress, Orlando, FL, December 10, 2017 (Invited).

Loudermilk, EL, O'Brien, JJ, Hornsby, B, Wallace, D, Norman, S, Williams, M, Goodrick, S, Wurzburger, N, [†]Carpenter, D, Hiers, JK, [†]Fowler, E, Reilly, M 2017. Early measurements of fire effects and long-term forest recovery after the 2016 southern Appalachian wildfires. The 7th Association of Fire Ecology International Fire Congress, Orlando, FL, December 10, 2017 (Invited).

Wurzburger, N, Elliott, KJ and Miniat, CF Nitrogen fixation facilitates forest recovery after repeated disturbance. Ecological Society of America (ESA) Annual Meeting, Portland, OR, August 10, 2017 (Contributed).

[†]Tierney, J and Wurzburger, N Longleaf pine savannas house diverse niches of nitrogen fixation. Ecological Society of America (ESA) Annual Meeting, Portland, OR, August 10, 2017 (Invited).

Wurzburger, N Why plant-microbial symbioses matter in our changing world. Biogeochemistry Seminar Series, Cornell University, Ithaca, NY, Oct 1, 2016 (Invited).

†Taylor, MK, Lankau, RA and Wurzburger, N Mycorrhizal symbioses of trees have different indirect effects on organic matter decomposition. Ecological Society of America (ESA) Annual Meeting, Fort Lauderdale, FL, August 9, 2016 (Invited).

McCormack, ML, Lankau, RA, Egan, JF and Wurzburger, N Patterns in soil carbon and nitrogen relate to mycorrhizal and phylogenetic identity of forest tress across eastern North America. Ecological Society of America (ESA) Annual Meeting, Fort Lauderdale, FL, August 9, 2016 (Invited).

†Tierney, J and Wurzburger, N N_2-fixation dynamics during ecosystem recovery in a fire-maintained savanna. Ecological Society of America (ESA) Annual Meeting, Fort Lauderdale, FL, August 11, 2016 (Invited).

Wurzburger, N Why plant-microbial symbioses matter in our changing world. Odum School Seminar Series, University of Georgia, Athens, GA, April 25, 2016.

Knoepp, JD, Oishi, AC, Strahm, BD, Miniat, CF, Fraterrigo, JM and Wurzburger, N Southern Appalachian forest soils show a pattern of long-term C loss. Annual Meeting of Soil Science Society of America (SSSA), Minneapolis, MN, November 2015 (Contributed).

Wurzburger, N and Brookshire, ENJ Mycorrhizal strategies have differential effects on soil carbon and nitrogen. ESA Annual Meeting, Baltimore, MD, August 10, 2015 (Contributed).

†Minucci, JM, Miniat, CF, and Wurzburger, N Symbiotic N_2 fixation facilitates resilience to hydroclimate variability. ESA Annual Meeting, August 12, 2015 Baltimore, MD, (Contributed).

†Phillips, CA and Wurzburger, N Biogeochemical consequences of arctic shrub expansion. ESA Annual Meeting, August 13, 2015 Baltimore, MD, (Contributed).

Wurzburger, N and Reed, S Nutrient limitation of tropical N_2 fixation. Association for Tropical Biology and Conservation Annual Meeting, Honolulu, HI, July 13, 2015 (Invited).

†Phillips, CA and Wurzburger, N Biogeochemical consequences of arctic shrub expansion. Odum School of Ecology Graduate Student Symposium, January 2015 (Contributed) (Awarded first place in the Ph.D. division).

†Coughlin, AM, Wurzburger, N, Shefferson, RP, Lankau, RA and Clark, S Plant-soil interactions in American chestnut restoration. Odum School of Ecology Graduate Student Symposium, January 2015 (Contributed) (Awarded first place in the M.S. division).

†Taylor, M, Lankau, RA, and Wurzburger, N Will tree migration amplify or suppress carbon loss from temperate forest soils? Odum School of Ecology Graduate Student Symposium, January 2014 (Contributed). (Awarded second place in proposed research division).

Wurzburger, N and Miniat, CF Drought enhances symbiotic di-nitrogen fixation and competitive ability of a temperate forest tree, SSSA Annual Meeting, November 5, 2013, Tampa, FL (Contributed) (Awarded for best oral paper in Forest, Range and Wildland Division).

†Machmuller, MB , Wurzburger, N, Phillips, CA, Minucci, JM, Thompson, A, Mohan, JE, The effect of soil warming on organic matter decomposition in highly-weathered soils, SSSA Annual Meeting, November 5, 2013 Tampa, FL (Contributed).

Wurzburger, N Controls and constraints on N_2 fixation in terrestrial ecosystems E3B Departmental Seminar, Columbia University Oct 8, 2013 (Invited).

†Machmuller, MB, Thompson, A, Wurzburger, N, Markewitz, D, Mohan, JE, Lack of warming-induced increases of soil respiration in highly-weathered soils, INTECOL meeting, Aug, 10 2013, London, England (Contributed).

†Machmuller, MB, Thompson, A, Wurzburger, N, Markewitz, D, Mohan, JE, Lack of warming-induced increases of soil respiration in highly-weathered soils, North American Forest Soils Meeting, June 6, 2013, Whitefish, Montana (Contributed).

Wurzburger, N Plant-Soil-Microbial Feedbacks, Guest speaker for ECOL 8310, Soil Ecology, April 4, 2013 (Invited).

†Minucci, JM, Wurzburger, N, Miniat, CF Determining the threshold response of symbiotic N_2-fixation to drought. Odum School Graduate Student Symposium Jan 22, 2013 (Contributed).

†Phillips, CA and Wurzburger, N Do Plant-Soil-Microbial feedbacks influence arctic carbon storage? Odum School Graduate Student Symposium Jan 22, 2013 (Contributed).

Wurzburger, N and Wright, SJ Root functional traits reveal complexity of nutrient limitation in a tropical forest ESA Annual Meeting, August 8, 2012 Portland, OR. (Contributed).

Wurzburger, N Molybdenum limitation on nitrogen fixers in a tropical forest Guest speaker for UGA HONS 3070, Gateway to the Natural Sciences, April 12, 2012 (Invited).

Wurzburger, N Stoichiometry of soil nutrients controls leguminous N_2 fixation in tropical forests ESA Annual Meeting, August 6, 2011 Austin TX. (Contributed).

Wurzburger, N Does Biogeochemistry matter in our changing world? Clemson University, Biological Sciences Departmental Seminar, Feb 14, 2011 (Invited).

Wurzburger, N Guest speaker for UGA HONS 3070, Gateway to the Natural Sciences, Feb 28, 2011 Molybdenum limitation on nitrogen fixers in a tropical forest (Invited).

Wurzburger, N Nutrient constraints in temperate and tropical forests UGA, Plant Biology Departmental Seminar, March 7, 2011 (Invited).

Wurzburger, N What controls N fixation in tropical forests? Smithsonian Tropical Research Institute, Bambi Seminar, July 21, 2011 (Invited).

Wurzburger, N Do soil nutrients constrain symbiotic N_2 fixation in tropical forests? British Ecological Society Annual Meeting, Sheffield, England. Thematic Topic on belowground processes and global change, Sept 13, 2011 (Invited).

Wurzburger, N Stoichiometry of soil nutrients controls nitrogen fixation in a lowland tropical forest UGA Soil Seminar Series, September 30, 2011 (Invited).

Wurzburger, N Mechanism of molybdenum and phosphorus limitation on asymbiotic nitrogen fixation in tropical forest soils, ESA Annual Meeting, August 5, 2010 Pittsburgh, PA (Contributed).

Wurzburger, N Exploring a plant-soil-mycorrhiza feedback in a temperate forest. Environmental Sciences Seminar, University of New Hampshire, 2007 (Invited).

Wurzburger, N Tannins in Ecology and Biogeochemistry. NSF LTER Polyphenol Workshop, Oregon State University 2007 (Invited).

Wurzburger, N and Hendrick, RL Exploring a plant-soil-mycorrhizal feedback with *Rhododendron maximum*. Coweeta Hydrologic Lab Annual Meeting, 2007 (Invited).

Wurzburger, N and Hendrick, RL ESA Annual Meeting, San Jose, CA Exploring a plant-soil-mycorrhiza feedback with *Rhododendron maximum* in a temperate hardwood forest, 2007 (Contributed).

Wurzburger, N and Hendrick, RL Roots and mycorrhizal fungi in Southeastern forests, controls on productivity and implications for C sequestration. USFS Southern Forest Research Partnership, Carbon Cycling Workshop, 2006 (Invited).

Wurzburger, N, Higgins, BP, and Hendrick, RL Fungi and fungal laccase genes from ericoid mycorrhizal roots of Rhododendron. International Conference on Mycorrhizas 5, Granada, Spain 2006 (Contributed).

Wurzburger, N, and Hendrick, RL *Rhododendron maximum* litter and ericoid mycorrhizal fungi- a positive feedback? Coweeta Hydrologic Lab annual meeting, 2006 (Invited).

Wurzburger, N and Hendrick, RL Do litter and ericoid mycorrhizas function as a N positive feedback for *Rhododendron maximum*? Soil Science Society of America, annual meeting, Salt Lake City, UT, 2005 (Contributed).

Wurzburger, N, and Hendrick, RL *Rhododendron maximum* litter and ericoid mycorrhizal fungi- a positive feedback? Warnell School of Forestry and Natural Resources Graduate Student Symposium, 2004 (Contributed).

Wurzburger, N, and Hendrick, RL Ectomycorrhizal fungal community structure across a bog-forest ecotone in southeastern Alaska. Warnell School of Forestry and Natural Resources Graduate Student Symposium, 2003 (Contributed).

Wurzburger, N and Bledsoe, CS The mycorrhizal ecology of mixed conifer and pygmy forests, Mendocino county, northern California. UC Davis, Dept of Land Air and Water Resources, M.S. Exit Seminar, 2000.

Poster Presentations:

†Jones, E, Wurzburger, N, Pries, CH, Lankau, R Do ectomycorrhizal fungi drive differences in soil organic matter in upland temperate forest? International Conference on Mycorrhiza, Manchester, England, August 5, 2024 (Contributed).

†Jones, E, Wurzburger, N, Pries, CH, Lankau, R Differences in Composition of Soil Organic Matter Between Oak and Pine Forests, The International Oak Symposium, Knoxville, TN, Oct 7, 2024 (Contributed).

†Bonilla, K, †Motes, JI, Hicks Pries, CE and Wurzburger, N Underrated understories: Effects of ericoid mycorrhizal shrubs on soil organic matter along a gradient of AM-ECM dominance in temperate forests, Ecological Society of America (ESA) Annual Meeting, Portland, OR August 9, 2023.

Scott, J, †Motes, J, †Ottinger, S, Wurzburger, N, Miniat, CF, Elliott, KJ Improved site-specific allometric equations for *Robinia pseudoacacia*. (Published abstract) Poster presentation at the Seventh Interagency Conference on Research in the Watersheds, University of Georgia Tifton Campus Conference Center, Tifton, GA, Nov 16–19, 2020.

¥Ingham, GA, Wurzburger, N, Lankau, RA, and Hicks Pries, CE Sensitivity of heterotrophic soil respiration to temperate as mediated by mycorrhizal fungi. Ecological Society of America (ESA) Annual Meeting, New Orleans, LA, August 9, 2018.

Wurzburger, N and †Tierney, JA, N_2-fixation as a recovery mechanism in longleaf pine savannas. SERDP Symposium, Washington D.C, Nov 29, 2017.

Wurzburger, N and Brookshire, ENJ Mycorrhizal strategies have differential effects on soil carbon and nitrogen. AGU Annual Meeting, San Francisco, CA, Dec 15, 2016.

†Phillips, CA and Wurzburger, N Shrubs stimulate heterotrophic respiration in arctic soils. AGU Annual Meeting, San Francisco, CA, Dec 15, 2016.

†Tierney, JA and Wurzburger, N N_2-fixation dynamics during ecosystem recovery in a fire-maintained savanna. AGU Annual Meeting, San Francisco, CA, Dec 12, 2016.

†Ament, MR, and Wurzburger, N How is N fixation regulated in fire-adapted ecosystems? ESA Annual Meeting, Baltimore, MD, August 10, 2015.

†Coughlin, AM, Wurzburger, N, Shefferson, RP, Lankau, R and Clark, S Plant-soil interactions in American chestnut restoration. ESA Annual Meeting, Baltimore, MD August 10, 2015.

†Collins, CG, Wright, SJ, and Wurzburger, N Functional traits of lianas differ from those of trees in a lowland tropical forest. Ecological Society of America Annual Meeting, Sacramento, CA, August 15, 2014.

¥Patillo, MS, †Phillips, CA, Wurzburger, N Investigating microbial responses to warming in the mineral layer of arctic soils. Odum School of Ecology Undergraduate Symposium, Jan 2014.

[†]Minucci, JM , Wurzburger, N Will severe droughts exceed the tolerance threshold of symbiotic dinitrogen fixation and impair ecosystem resilience? Southeastern Biogeochemistry Symposium, Atlanta, GA April 5-6.

[†]Phillips, CA, Wurzburger, N Biogeochemical consequences of arctic shrub expansion: a plant soil feedback perspective, Southeastern Biogeochemistry Symposium, Atlanta, GA April 5-6.

[†]Phillips, CA, [†]Machmuller, MB, [†]Minucci, JM, Mohan, JE, Wurzburger, N Temperature and moisture interact to constrain soil respiration from ultisol soils, SSSA Annual Meeting, Tampa, FL November 5, 2013.

[†]Minucci, JM, [†]Machmuller, MB , [†]Phillips, C.A. , Mohan, JE, Wurzburger, N. The effect of soil warming on extracellular enzyme kinetics in a piedmont Ultisol, SSSA Annual Meeting, Tampa, FL, November 5, 2013.

Teaching experience:

University of Georgia, Regular courses:

Course Code [Credit hours]	Course Title	Sole or co-instructor	Years taught	Average enrollment
ECOL 4010/6010 [3]	Ecosystem Ecology	Sole	2012–2020, 2022–2025	28
ECOL 4010/6010L [1]	Ecosystem Ecology Lab	Sole	2023–2025	9
ECOL 8322 [4]	Concepts and Approaches in Ecosystem Ecology	Co (2017) Sole (2019, 2025)	2017, 2019, 2025	20
ECOL 8000 [3]	Topics in Modern Ecology	Co	2017, 2019, 2020, 2023	17
ICON 8002 [3]	Principles of Integrative Conservation	Co	2022	12
ICON 8110 [1]	Field Planning and Preparation	Co	2021	13
ECOL 4950 [1]	Senior Seminar	Co	2017	7
ECOL 8990 [3]	Problems in Ecology	Sole	2014, 2017, 2018, 2022	2
ECOL 3480 [2]	Special Topics in Ecology	Sole	2017	1

University of Georgia, Guest lectures

Course Title	Years
CURO Honors Program, Lunchbox lecture	2017
ECOL 8660 *Soil Ecology*	2013
HONS 3070 *Gateway to the natural sciences*	2012, 2013
FORS 8100 *Advanced Forest Ecology*	2002, 2004, 2006
FORS 6010 *Silviculture*	2003

Teaching experience as graduate student and postdoc:

Course Title	Role	Years
UC Davis, SSC 10 Soils and Our Environment	Teaching Assistant	1998-2000
University of Georgia, FORS 3060 Soils and Hydrology	Teaching Assistant	2001-2004
Princeton University, Fundamentals of Environmental Studies	Assistant Instructor	2007-2009

Teaching and Mentoring Development:

Course Title	Years
CIMER Mentoring Workshop for Odum School of Ecology faculty	2022
Faculty Learning Series: Leadership through effective mentoring	2019
Faculty Learning Series: Courageous Conversations – Strategies for making connections and setting boundaries	2019
Safe Space Training	2018
Teaching Academy Symposium, Unicoi State Park, The Teaching-Research Nexus: Building Effective Bridges	2012
Teaching Science, short course, McGraw Center Princeton University	2008

Service:

International/National

Invited session co-chair: Invited to co-chair BIOGEOMON 2026 session "Plant-Soil-microbial interactions as drivers of ecosystem processes" to be held June 8-11, Umea, Sweden

Session co-organizer: ESA Annual Meeting 2026 (pending)

Invited Workshop Participant: Land-Based Carbon Management Workshop, to develop a cohesive team and set of research questions for an NSF Science and Technology Center proposal, The Ohio State University (2023).

Invited Workshop Organizer: Department of Energy, Office of Biological and Environmental Research's (BER) Environmental System Sciences (ESS) Program, to coordinate research efforts complementing ongoing activities with the third ARM Mobile Facility (AMF3) deployment to the Southeastern United States (2023).

Invited Workshop Participant: The Next 100 Years: Creating a Shared Vision for Watershed Research at the Coweeta Hydrologic Laboratory, USDA Forest Service (2023).

Session Co-organizer: ESA Annual Meeting "Fire exclusion and mesophication across scales in historically fire-dependent forests." (2023)

Invited Working Group Participant: USGS Powell Center Working Group on nitrogen fixation, to create a database for the upscaling of nitrogen fixation across the terrestrial biome (2020–present)

Invited Workshop Participant: New Phytologist Workshop on Root Functional traits and plant and ecosystem functioning, Sommières, France (2019)

Session Co-organizer: North American Forest Ecology Workshop "Understanding the causes and consequences of forest mesophication through multiple ecological dimensions" (2019).

Co-editor of *Journal of Ecology* Special Feature "Mycorrhizal fungi as drivers and modulators of ecosystem processes" (2018)

Session Co-organizer: ESA Annual Meeting "Mycorrhizal Fungi as Drivers and modulators of ecosystem processes (2016).

Session Co-organizer: ESA Annual Meeting "Soil microbial communities as facilitators of ecosystem restoration and recovery" (2016).

Member: Scientific Advisory Board Coweeta LTER 2014–2020

Associate Editor:
Journal of Ecology 2011–2025
Ecosystems 2025–current

Panelist:
- U.S. Department of Energy Terrestrial Ecosystem Science (TES) University Review, 2013
- National Science Foundation DEB Ecosystem Sciences, 2016

Ad hoc Proposal reviews
- NSF DEB 2013, 2014, 2015, 2017, 2019, 2020, 2021
- National Environment Research Council, UK 2013
- Israel Science Foundation 2018, 2019

Ad hoc manuscript reviews - *Applied Soil Ecology*, *Biogeochemistry*, *Biotropica*, *Ecology*, *Ecosystems*, *Functional Ecology, Global Biogeochemical Cycles, Global Change Biology, Journal of Ecology*, *Madroño, Mycorrhiza*, *Nature*, *Nature Ecology & Evolution*, *New Phytologist*, *Plant and Soil*, *Proceedings of the National Academy of Sciences*, *Symbiosis, Oecologia*, *Oikos*, *PLoS ONE, Restoration Ecology*, *Soil Biology and Biochemistry, Science of the Total Environment, ISME Journal, Trends in Ecology and Evolution, Fungal Ecology, Journal of Geophysical Research: Biogeosciences*

External examiner and doctoral dissertation committee member
- PhD Qualifying Exam for Ashley Lang, Dartmouth College (2017)

Invited evaluations of promotion and tenure dossiers and merit reviews of federal and international scientists

- 2018, 2022, 2023, 2023, 2025
- New Phytologist Workshop on Root Functional traits, Sommières, France (2019)
- NSF LTER Polyphenol Workshop, Oregon State University (2007).
- NSF X-Roots Workshop, University of California Davis (1998).

Local

Member and two-time president of Athens-Clarke County Community Tree Council, (2013–2020): The council's goal is to promote a sustainable community forest through information and tree policy recommendations, education and outreach, and promotional campaigns that highlight the vital role of trees in the community.

Career Panel: Georgia Water Resources Conference (2011)

University

UGA Program Review and Assessment Committee (PRAC) (2025–2027)
LOA representative for Plant Pathology program review 2025-2026

Facilitator for Panel on Field Work Safety, for Symposium on Gender, the Body and Fieldwork Across Disciplines, April 29, 2022

Mentor for Symposium on Gender, the Body and Fieldwork Across Disciplines, April 19, 2019

Task Force – Lab-specific Chemical Hygiene Plan, College of Public Health (2016–2017)

ARCS Proposal Review Committee (Achievement Rewards for College Scientists Foundation), UGA Biomedical and Health Sciences Institute (2016)

Department of Plant Biology, Faculty Search Committee (2016–2017)

Department of Microbiology, Faculty Search Committee (2012)

Warnell–Odum School Faculty Search Committee (2011)

Odum School of Ecology

Faculty cluster hire in Ecosystem Ecology (Chair) (2025)

Promotion and Tenure Committee (2024–current)

Human Resources Operations position search committee (2022)

Research & Teaching Postdoctoral position search committee (Chair) (2022)

Lecturer Search Committee (2020)

Undergraduate Program Committee (2019 –2024)

Graduate Program Committee (2014– 2019)

Space and Facilities Committee (2018– 2019)

Seminar Committee (2018–2019)

Steering Committee (2017–2018)

CURO undergraduate fellowship committee (2015–2016)

Ecologist Faculty Search Committee (2016)

Ecosystem Ecology Faculty Search Committee (2012)

Chair of the Analytical Chemistry Lab Committee (2011– 2015)

Warnell School – Odum School Faculty Search Committee (2011)

Graduate and Postdoctoral Advisors:

M.S. advisor: Dr. Caroline S. Bledsoe, University of California, Davis (Retired)

Ph.D. advisor: Dr. Ronald L. Hendrick, University of Georgia (Provost of Texas Tech University),

Postdoctoral advisor: Dr. Lars O. Hedin, Princeton University.

Supervision of graduate students and postdocs:

Student	Degree	Dates	Current position
Kelly Andersen	Postdoctoral Associate	2011-2012	Assistant Professor, Missouri Botanic Garden
Courtney Collins	MS Ecology	2011–2013	Postdoctoral Fellow, University of British Columbia
Jeffrey Minucci	PhD Ecology	2012–2017	Physical Scientist, US EPA
Carly Phillips	PhD Ecology	2012–2018	Research Scientist, Union of Concerned Scientists
Melanie Taylor	MS Ecology	2013–2015	Postdoc, NC State
Aeran Coughlin	MS Ecology	2013–2015	PhD student, Duke University
Michael Ament	MS Ecology	2014–2016	Physical Scientist, USGS
Julie Tierney	MS Ecology	2015–2017	Postdoc, Mad Agriculture
Dana Carpenter	MS Ecology	2017–2019	Assistant Land Steward, The Nature Conservancy
Sarah Ottinger	MS Ecology	2019–2021	Environmental Justice Manager, Tennessee Valley Authority
Jessie Motes	MS Ecology	2019–2022	PhD student, Columbia University
Kayla Bonilla	MS Ecology	2021–2024	Resource Assistants Intern, USDA Forest Service
Melanie Taylor	PhD Ecology	2019–2024	Postdoc, NC State
Trey Grimsley	MS Ecology non-thesis	2024–2025	Acquisitions, PowerMarket
Jordan Argrett	PhD Ecology	2021–current	
Erik Jones	PhD Ecology	2021–current	
Angelia Romano	PhD Plant Biology	2022–current	
Rohit Nandakumar	PhD Ecology	2024–current	

Supervision of undergraduate research:

Student	Date	Current position
Meryom Pattillo	2013	
Jenna Peissig	2014	Data engineer, CareFirst BlueCross
Kelsey Morton	2016–2017	MS student, NC State University
Evan Barnard	2016–2017	MS student, American University
Sumaya El-Khalidi	2016–2018	Assistant grower, Backyard Farms
Grace Anne Ingham	2016–2018	MS student, UGA
Jessie Motes	2018–2019	PhD student, Columbia University
Hannah Goldberg	2018–2019	Laboratory Technician
Carter Coleman	2019	PhD student, UGA
Erik Ramos	2019	MS student, USC
Ian Morton	2022	
Isabella Pellicano	2023	current UGA undergraduate
Soumya Vajrala	2023	

Zane Rogers	2024	Technician, UGA
Isabella Pellicano	2025–2026	current UGA undergraduate

Graduate student advisory committee membership:

Student	Degree	Dates
William Bunch	MS Ecology	2011–2012
Richard Reitz	PhD Forestry and Natural Resources	2011–2012
Peter Baas	PhD Ecology	2011–2014
Megan Machmuller	PhD Ecology	2011–2014
David Manning	PhD Ecology	2011–2015
Chelsea Cunard	PhD Plant Biology	2012– 2016
Uma Nagendra	PhD Plant Biology	2012– 2017
Aaron Joslin	PhD Forestry and Natural Resources	2012– 2018
Jinyan Yang	PhD Forestry and Natural Resources	2013– 2016
Elise Kruger	PhD Ecology (transferred to MS Ecology)	2013– 2017
Dexter Strother	PhD Ecology	2013–2020
Elizabeth Guinessey	MS Ecology	2016–2017
Stephen Ruswick	MS Forestry and Natural Resources	2016–2018
Conor Fair	PhD Entomology	2016– 2021
Rachel Mactavish	PhD Genetics	2017–2022
Monica Harmon	PhD Forestry and Natural Resources	2019-2022
Alison Moss	MS Forestry and Natural Resources	2020–2023
Phoebe Judge	MS Ecology	2020–2022
Michael Belovitch	PhD Ecology	2020–2024
Michelle Henson	PhD Plant Biology	2021–2025
Isabel Wargowsky	MS Ecology	2021–2022
Liam Stiefel	MS Forestry and Natural Resources	2023–2025
KB McCrum	PhD Plant Biology	2020–current
Ourania Nikolaidis	PhD Forestry and Natural Resources	2022–current
Emma Kelsick	PhD Ecology	2022–current
Logan Novack	PhD Plant Biology	2023–current
Virginia Hudspeth	MS Forestry and Natural Resources	2024–current
Isabella Vahle	PhD Forestry and Natural Resources	2025–current
Zane Burris	PhD Marine Sciences	2025–current
Heather Motro	MS Forestry and Natural Resources	2025–current
Sienna Slater	MS Ecology (non-thesis)	2025–current
Vanessa Gremler	PhD Forestry and Natural Resources	2025–current

Recognitions and outstanding achievements award to graduate student mentees:

Student	Degree	Date	Award
Angie Romano	PhD Plant Biology	2024	UGA Summer Research Grant ($1500), UGA Palfrey Student Grant ($1250)
		2025	UGA Graduate School Travel Grant ($1000)
Jorden Argrett	PhD Ecology	2022–2024	Odum Research & Travel Grants ($7400)

		2024	Lewis and Clark Field Scholar ($7000)
		2024–2025	ARCS Foundation Scholarship ($7500)
		2023	Botanical Society of America, Bill Dahl Graduate Student Research Award ($1,500)
		2022–2023	Rocky Mountain Biological Lab Student Grant ($7700)
		2022	Odum School Diversity Award ($1000)
Erik Jones	PhD Ecology	2023, 2024	UGA Odum Research Grant ($2742, $4740)
		2023	UGA Summer Research Grant ($1500)
		2025	Odum Travel Grant ($250)
Kayla Bonilla	MS Ecology	2023	UGA Palfrey Student Grant ($1125)
		2023	UGA Summer Research Grant ($1500)
		2023	UGA Graduate School Travel Grant ($500)
Melanie Taylor	PhD Ecology	2023–2024	Lockheed Martin STEM Scholarship ($2200)
Julie Tierney	MS Ecology	2016	Honorable Mention: NSF GRFP
Mike Ament	MS Ecology	2015	Honorable Mention: NSF GRFP
Carly Phillips	PhD Ecology	2018	Clark Soil Biology Scholarship ($3000)
		2016–2018	NSF DDIG $17,264
		2015–2016	NSF GROW ($42,159)
		2014–2015	Exploration and Field Grants ($5200)
		2013–2018	NSF GRFP ($137,500)
Aeran Coughlin	MS Ecology	2014	State and National Garden Club Scholarships ($9000), Odum Grant ($1200)
		2014	UGA Odum Research Grant ($1200)
Jeffrey Minucci	PhD Ecology	2013	UGA Odum Research Grant ($1000)
		2013	Scholarship, Summer Soil Institute ($500)
Courtney Collins	MS CESD	2012	UGA, Odum Research Grant ($500)
		2012	Smithsonian Tropical Research Institute Short-Term Fellowship