

JUSTIN PROUTY WRIGHT

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Education

- Ph.D. in Ecology and Evolutionary Biology, Cornell University, Ithaca, NY and Institute of Ecosystem Studies, Millbrook, NY. August 1997 - May 2002. “The effects of an ecosystem engineer, the beaver, on patterns of species richness at multiple spatial scales”
- B.A. with Honors in Biology and Environmental Studies, Williams College, Williamstown, MA. 1996

Professional Positions

- Dean of Graduate Education, Trinity College of Arts and Sciences, Duke University 2022-present
- Professor, Department of Biology, Duke University 2021-present
- Director of University Program in Ecology. 2020-Present
- Associate Chair for Ecology, Evolutionary and Organismal Biology in the Department of Biology. 2017-2020
- Associate Professor, Department of Biology, Duke University. 2014-2021
- Assistant Professor, Department of Biology, Duke University. 2007-2014
- Faculty Affiliate, Division of Biological Sciences, University of Montana. 2005-2008
- Research Assistant Professor, Department of Biology, Duke University. 2004-2007
- Secondary Appointment, Division of Marine Science and Conservation, Nicholas School of the Environment and Earth Sciences, Duke University. 2018-Present
- Secondary Appointment, Division of Environmental Science and Policy, Nicholas School of the Environment and Earth Sciences, Duke University. 2004-Present
- Affiliate of Duke Microbiome Center, Duke University 2022-Present
- Columbia Science Fellow, Department of Ecology, Evolution, and Environmental Biology, Columbia University. Advisor – Shahid Naeem. 2003
- Postdoctoral Research Associate, University of Washington. Advisor – Shahid Naeem. 2002
- Watson Fellow. 1996-1997

Grants, Fellowships, Awards, and Honors

- Ivy+ Provost Leadership Fellow (2022)
- PI on “Collaborative Research: Things Fall Apart: Developing an understanding of ecosystem unraveling in rapidly changing coastal landscapes. \$533,026 NSF DEB (In Review)
- Duke *Celebrating Mentors* honoree 2019
- Duke Teaching for Equity Fellow 2018-2019
- PI on “Modeling the effects of saltwater intrusion on the forested wetlands of North Carolina’s coastal plain” NOAA/NC Sea Grant \$10,000 (Awarded to Emily Ury)
- PI on “SG: Microbial Community Coalescence: Disentangling Assembly Processes during Aquatic Mixing” NSF DEB \$199,671
- Co-PI on "Mega-Gardeners of Tropical Forest: Modeling Seed Dispersal by Forest Elephants" Bass Connections \$50,000
- Top 5% Instructor in Trinity College at Duke University 2016, 2021
- PI on “Birds-eye view on canopy stress from saltwater intrusion: integrating drone imagery and satellite remote sensing to aid coastal wetland restoration” NASA award to Emily Ury
- PI on “DISSERTATION RESEARCH: Scaling Plant Physiology to Ecosystem Ecology: Assessing the Role of the Plant Community in Preventing Nitrogen Losses Following Fire” NSF DEB \$20,403 (DDIG awarded to Cari Ficken)
- PI on “DISSERTATION RESEARCH: Quantifying Nitrogen Limitation in the Gut Microbiota” NSF DEB \$19,706 (DDIG awarded to Aspen Reese)

- Co-PI on “Coastal SEES Collaborative Research: Salinization of the inland coastal plain through saltwater intrusion: landscapes in transition along the leading edge of climate change” NSF OCE – SEES Coastal \$509,680 ACTIVE
- PI on “COLLABORATIVE RESEARCH: Testing a conceptually-driven framework to predict variability in the ecosystem consequences of plant invasion across heterogeneous landscapes.” NSF DEB \$190,973 to PI Wright
- PI on “Plant Ecophysiology under Extreme Climate Events” ORNL \$24,999 (Fellowship awarded to Cari Ficken)
- PI on “Using Functional Traits to Inform Plant Conservation.” DOD \$113,497
- PI on “DISSERTATION RESEARCH: Synthesizing the Mass-ratio and Novel-trait Hypotheses to Explain Variability in the Impact of Plant Invasions on Coupled C and N Cycling” NSF DEB \$19,983(DDIG awarded to Marissa Lee)
- PI on “DISSERTATION RESEARCH: Effects of Climate-Induced Changes in Generalist Predators on the Structure and Function of Arctic Food Webs” NSF DEB \$14,999 (DDIG awarded to Amanda Koltz)
- PI on “Will Climate Change Alter Rates of Old Field Succession across the U.S. Eastern Deciduous Forest? A Cross-Latitude Experimental Network” NSF DEB \$316,193
- PI on “Cross-scale assessment of ecological resilience to altered fire regimes: developing a trait-based approach to predict changes to plant communities and ecosystem processes of Fort Bragg in response to changes in prescribed burn regimes” DOD \$1,005,001
- Duke Endowment grant for Course Enhancement 2010
- Duke University Center for Information Technology Biology Faculty Fellow 2010
- PI on “DISSERTATION RESEARCH: Effects of urbanization and climate change on denitrifier community structure and function” NSF DEB \$12,864 (DDIG awarded to Jenny Wang)
- PI on “Will climate change alter rates of old field succession across the Eastern Deciduous Forest? A cross-latitude experiment” NSF DEB \$135,000 (Proof of concept grant)
- Co-PI on “Dissertation Research: Plant species and functional trait effects on methane and nitrous oxide fluxes from a North Carolina restored wetland” NSF DEB \$12,000 (DDIG awarded to Eileen Thorsos)
- NSF Research Training Grant: Human Accelerated Environmental Change. 1997-01
- Watson Fellowship to study conservation efforts in New Zealand and Madagascar. 1996
- Sigma Xi, Williams College. 1996

Publications (Corresponding author indicated with * and lab members in bold)

1. Allison L. Gill, A.L. P.B. Adler, E.T. Borer, C.R. Buyarski, E.E. Cleland, C.M. D'Antonio, K.F. Davies, D.S. Gruner, W.S. Harpole, K.S. Hofmockel, A.S. MacDougall, R.L. McCulley, B.A. Melbourne, J.L. Moore, J.W. Morgan, A.C. Risch, M. Schütz, E.W. Seabloom, **J.P. Wright**, L.H. Yang, S.E. Hobbie. 2022. Nitrogen increases early-stage and slows late-stage decomposition in grasslands spanning continents. *Journal of Ecology* 110: 1376-1389
2. Diaz, S.D. et al (**JP Wright** one of 100+ contributing authors). 2022. The global spectrum of plant form and function: enhanced species-level trait dataset. 9: 755. *Scientific Data*.
3. Poulsen, J., Bierne, C., Rundel, C., Baldina, M., Kim, S., Knorr, J., Minich, T., Jin, L., Nunez, C., Xiao, S. Mbabmy, W., Obiang, G., Masseloux, J., Nkoghe, T., Ebanga, M., **Wright, J.P.** 2022. Long distance seed dispersal by forest elephants. *Frontiers in Ecology and Evolution*. 9:789264
4. **Ury, E. M.** Ardon, **J. Wright**, and E. Bernhardt. 2022. Seawater is more than just salt: disentangling the effects of salinization and pH on coastal soil carbon cycling. *Biogeochemistry*. doi.org/10.1007/s10533-021-00869-6
5. **Anderson, S.M. E.A. Ury, P. Taillie, E.A. Ungberg, C.E. Moorman, B. Poulter, M. Ardon, E.S. Bernhardt, J.P. Wright***. 2021. Understory plants are reliable indicators of salinity thresholds in coastal wetlands. *Plant Ecology*. 10.1007/s11258-021-01209-2
6. **Mitchell, R.M. G.M. Ames, and J.P. Wright**. 2021. Intraspecific trait variability shapes SLA response to altered fire regimes. *Annals of Botany* 127: 543-552. doi: 10.1093/aob/mcaa179
7. **Ury, E., X. Yang, JP Wright, and E. Bernhardt**. 2021. Rapid deforestation of a coastal landscape by climate change. *Ecological Applications*. https://doi.org/10.1002/eap.2339
8. **Wright, J.P. D. DeLaMater, A. Simha, E. Ury, and C. Ficken**. 2021. Changes in fire frequency alter ecosystem carbon dynamics. *Ecosystems*. 24:640-651. https://doi.org/10.1007/s10021-020-00540-5.
9. Guerrero-Ramírez, N. R.; L. Mommer; G. Freschet; C. Iversen; M.L. McCormack; J. Kattge; H. Poorter; F. van der Plas; J. Bergmann; T.W. Kuyper; L.M. York; H. Bruelheide; D. Laughlin; I.C. Meier; C. Roumet; M.

- Semchenko; C.J. Sweeney; J. van Ruijven; O.J. Valverde-Barrantes; I. Aubin; J. Catford; P. Manning; A. Martin; R. Milla; V. Minden; J. Pausas; S.W. Smith; N. Soudzilovskaia; C. Ammer; B. Butterfield; J. Craine; V. Cornelissen, Johannes; de Vries, Franciska T. ; Isaac, Marney; Kramer, Koen; König, Christian ; Lamb, Eric; Onipchenko; J. Penuelas; P. Reich; M. Rillig; L. Sack; B. Shipley; L. Tedersoo; F. Valladares; P. van Bodegom; P. Weigelt; **J. Wright**; A. Weigelt. 2021. Global Root Traits (GRooT) Database. *Global Ecology and Biogeography*. 30:25-37. <https://doi.org/10.1111/geb.13179>.
10. **Koltz, A.M. and J.P. Wright**. 2020. Larger female body size is associated with lower juvenile recruitment and increased cannibalism in a dominant invertebrate arctic predator. *Journal of Animal Ecology*. 89:1788-1798 DOI: 10.1111/1365-2656.13230
 11. **Ames, G., W. Wall, M. Hohmann, J. Wright**. 2020. Functional trait differences predict survival in rare plant reintroductions. *Ecological Applications*. DOI: 10.1002/eap.2087
 12. Kuppler, J; Albert, C; **Ames, G**; Armbruster, S; Bönisch, G; Boucher, F; Campbell, D; Carneiro, L; Chacón-Madrigal, E; Enquist, B; Fonseca, C; Reyes, JMG; Guisan, A; Higuchi, P; Karger, D; Kattge, J; Kleyer, M; Kraft, N; Larue-Kontić, AA; Lázaro, A; Lechleitner, M; Loughnan, D; Minden, V; Niinemets, U; Overbeck, Gerhard; Parachnowitsch, Amy; Perfectti, Francisco; Schellenberger Costa, David; Sletvold, Nina; Stang, M; Alves dos Santos, I; Streit, H; **Wright, J**; Zych, M; Junker, R. 2020. Global gradients in intraspecific variation in vegetative and floral traits are partially associated with climate and species richness. *Global Ecology and Biogeography*. doi.org/10.1111/geb.13077
 13. Kattge, J. G. Bönisch, , S. Díaz, S.Lavorel, I.C. Prentice, P. Leadley, S. Tautenhahn, G.Werner, ... **J.P. Wright**, ..., and C.Wirth. 2020. TRY plant trait database - evolution towards enhanced coverage and open access. *Global Change Biology*. 26: 119-188. <https://doi.org/10.1111/gcb.14904>
 14. **Rocca, J., M. Simonin, A. Washburne, E. S. Bernhardt, J.P.Wright**. 2019. When microbial communities collide: asymmetric community coalescence in experimental seawater intrusion. *Ecology*. doi:10.1002/ecy.2956
 15. Beirne, C. CL. Nuñez, M Baldino, S Kim, J Knorr, T Minich, L Jin, S Xiao, W Mbamy, G N Obiang, J Masseloux, T Nkoghe, M O Ebanega, C Runde, **JP. Wright**, JR. Poulsen. 2019. Estimation of gut passage time in wild, free roaming forest elephants. *Wildlife Biology*. doi: 10.2981/wlb.00543
 16. Craig, M.E, N. Lovko, S. L. Flory, **J.P. Wright**, and R. P. Phillips. 2019. Impacts of an invasive grass on soil organic matter pools vary across a tree-mycorrhizal gradient. *Biogeochemistry*. 144: 149-164.
 17. Simonin, M., K.A. Voss, B.A. Hassett, **J.D. Rocca, S. Wang**, R. L Bier, C.R. Violin, **J.P. Wright**, E.S. Bernhardt. 2019. In search of microbial indicator taxa: shifts in stream bacteria along an urbanization gradient. *Environmental Microbiology*. <https://doi.org/10.1111/1462-2920.14694>
 18. **Ficken, C.D.* and J.P. Wright**. 2019. Using the plant economic spectrum to test mechanisms of niche differentiation: Nitrogen uptake and biomass regrowth have contrasting relationships with root traits. *Journal of Vegetation Science* 30: 65-74.
 19. Cleland, E., E. Lind, N. DeCrappeo, E. DeLorenze, R. Abbott, P. Adler, J. Bakker, C. Brown, K. Davies, E. Esch, J. Firn, S. Gressard, D. Gruner, N. Hagenah, S. Harpole, Y. Hautier, S. Hobbie, K. Hofmockel, K. Kirkman, J.M.H. Knops, C. Kopp, K. La Pierre, A. MacDougall, B. Melbourne, J. Moore, S. Prober, C. Riggs, A. Risch, M. Schuetz, C. Stevens, **J. Wright**, E. Borer, E. Seabloom. 2019. Below-ground biomass response to nutrient enrichment depends on light-limitation across globally distributed grasslands. *Ecosystems*. <https://doi.org/10.1007/s10021-019-00350-4>
 20. Firn, J., J. McGree, E. Harvey, M. Schütz, H. Flores, Y.M. Buckley, E. Lind, E. Borer, E. Seabloom, K. LaPierre, A.M. MacDougall, S.M. Prober, C.J. Stevens, L. Sullivan, E. Porter, E. LaDouceur, C. Allen, K.H. Moromizato, N. Eisenhauer, **J.P.Wright**, AC. Risch. 2019. Leaf nutrient contents but not specific leaf area increase rapidly and predictably in response to eutrophication. *Nature Ecology and Evolution*. 3:400-406.
 21. **Ury, E., S. Anderson, R. Peet, E. Bernhardt, and J. Wright**. 2019. Succession, regression and loss: does evidence of salt water exposure explain recent changes in the tree communities of North Carolina's Coastal Plain? *Annals of Botany*. <https://doi.org/10.1093/aob/mcz039>
 22. **Reese, A.T., F. Periera, A. Schintlmeister, D. Berry, M. Wagner, L.P. Hale, A. Wu, S. Jiang, H. Durand, X. Zhou, R. Premont, A. Diehl, T. O'Connell, S. Alberts, T. Kartzinell, R.M. Pringle, R.R. Dunn, J.P. Wright**, and L.A. David. 2018. Microbial nitrogen limitation in the mammalian large intestine. *Nature Microbiology* 3:1441-1450 doi.org/10.1038/s41564-018-0267-7
 23. Bhattachan,A., RE Emanuel, M Ardón, TK BenDor, ES Bernhardt, **JP Wright**. 2018. Evaluating the effects of climate and land-use changes on vulnerability of coastal landscapes to saltwater intrusion. *Elem. Sci. Anth* .6:62
 24. **Lee, M.R.*, S.L. Flory, R.P Phillips and J.P. Wright**. 2018. Site conditions are more important than abundance in explaining invaders impact on soil nitrogen cycling. *Ecosphere*. 9:e02454 doi.org/10.1002/ecs2.2454.

25. Hodapp, D., E.T. Borer, W.S. Harpole, E.M. Lind, E.W. Seabloom, P.B. Adler, J. Alberti, C.A. Arnillas, J.D. Bakker, L. Biederman, M. Cadotte, E.E. Cleland, S. Collins, P.A. Fay, J. Firn, N. Hagenah, Y. Hautier, O. Iribarne, J.M.H. Knops, R.L. McCulley, A. MacDougall, J.L. Moore, J. Morgan, B. Mortensen, K.J. La Pierre, A.C. Risch, M. Schütz, P. Peri, C.J. Stevens, **J. Wright**, H. Hillebrand. 2018. The spatial distribution of species composition constrains plant community responses to herbivory and fertilization. *Ecology Letters*. 21: 1364-1371
26. **Koltz, A. M.**, A. T. Classen, and **J.P. Wright**. 2018. Warming reverses top-down effects of predators on the structure and function of belowground communities in the Arctic. *Proceedings of the National Academy of Sciences*. <https://doi.org/10.1073/pnas.1808754115>
27. **Reese, A.T.** E.H. Cho, B. Klitzman, S.P. Nichols, N.A. Wisniewski, M.M. Villa, H. Durand, S. Jiang, F. Midani, S. Nimmagadda, T.M. O'Connell, **J.P. Wright**, M.A. Deshusses, L.A. David. 2018. Antibiotic induced changes in microbial respiration disrupt redox dynamics in the gut. *eLife*. eLife 2018;7:e35987
28. Hassett, B., Bernhardt, E.S., Suddoth, E., **Wang, S.**, Violin, C., Cory, R., Somers, K. **Wright, J.P.**, Urban, D. 2018. Pulling apart the urbanization axis: patterns of physiochemical degradation and biological response across stream ecosystems. *Freshwater Science*. <https://doi.org/10.1086/699387>
29. Fridley, J.D., and **J.P. Wright*** (equal contributions). 2018. Temperature accelerates the rate fields become forests. *Proceedings of the National Academy of Sciences*. <https://doi.org/10.1073/pnas.1716665115>
30. **Mitchell, R., G. Ames, and J.P. Wright**. 2018. Species' traits do not converge on optimum values in preferred habitats. *Oecologia*. doi.org/10.1007/s00442-017-4041-y
31. **Reese, A.R., K. Lulow (Duke undergraduate), D. Lawrence, J.P. Wright**. 2017. Plant community and soil conditions individually affect soil microbial community assembly in experimental mesocosms. *Ecology and Evolution*. *:1196-1205. doi: 10.1002/ece3.3734
32. **Ficken, C.D.* and J.P. Wright**. 2017. Direct and indirect effects of frequent disturbance on litter decomposition. *PLoS One*. 12(10) e0186292
33. Lind, E.M. K.J. LaPierre, E.W. Seabloom, J. Alberti, O. Iribarne, J. Firn, D.S. Gruner, A.D. Kay, J. Pascal., **J.P. Wright**, L. Yang, E.T. Borer. 2017. Increased grassland arthropod production with grazing and eutrophication: An experimental test of mediation pathways. *Ecology*. 98:3022-3033 DOI: 10.1002/ecy.2029
34. Strayer, D.L., C.M. D'Antonio, F. Essl, M.S. Fowler, J. Geist, S. Hilt, I. Jarić, K. Jöhnk, C.G. Jones, X. Lambin, A.W. Latzka, J. Pergl, P. Pyšek, P. Robertson, M. von Schmalensee, R.A. Stefansson, **J. Wright**, and Jonathan M. Jeschke. 2017. Boom-bust dynamics in biological invasions: definitions, causes, detection, and description. *Ecology Letters*. 20:1337-1350 doi: 10.1111/ele.12822
35. **Ames, G.M. S. Anderson, E. Ungberg, and J.P. Wright**. 2017. Functional traits of the understory plant community of a pyrogenic longleaf pine forest of the Southeastern US. *Ecology*.
36. Mitchell, R., **J. Wright**, G. Ames. 2017. Intraspecific variability improves environmental matching, but does not increase ecological breadth along a wet-to-dry ecotone. *Oikos* 126:988-995 doi: 10.1111/oik.04001
37. **Ames, G.M.** W. Wall, M. Hohmann, and **J.P. Wright**. 2017. Rare plants occupy a subset of trait space in a fire-dependent ecosystem. *Conservation Biology*. DOI:10.1111/cobi.12867
38. **Ficken, C.D.* and J.P. Wright**. 2017. Contributions of microbial activity and ash deposition to post-fire nitrogen availability in a pine savanna. *Biogeosciences*. 14:241-255.
39. **Lee, M.R.***, E.S. Bernhardt, P.M. van Bodegom, J.H.C. Cornelissen, J. Kattge, D.C. Laughlin, U. Niinemets, J. Penuelas, P.B. Reich, B. Yguel, and **J.P. Wright**. 2017. Invasive species' leaf traits and dissimilarity from natives shape their impact on nitrogen cycling: a meta-analysis. *New Phytologist* 213:128-139
40. **Reese, A.T., G.M. Ames, and J.P. Wright**. 2016. Variation in plant response to herbivory underscored by functional traits. *PLoS One*. 11:e0166714.
41. Heckman, R.W., **J.P. Wright**, and C.E. Mitchell. 2016. Joint effects of nutrient addition and enemy exclusion on exotic plant success. *Ecology*. 97: 3337-3345.
42. Funk, J., Larson, J., **Ames, G.**, Butterfield, B., Cavender-Bares, J., Firn, J., Laughlin, D., Sutton-Grier, A., Williams, L., **Wright, J.** 2016. Revisiting the Holy Grail: Using plant functional traits to predict ecological processes. *Biological Reviews*. doi: 10.1111/brv.12275
43. Heinze, J., M. Sitte, A. Schindhelm, **J. Wright**, and J. Joshi. 2016. Plant-soil feedbacks: a comparative study on the relative importance of soil-feedbacks in the greenhouse and field. *Oecologia*. 181:559-569
44. **Wright, J., G. Ames, and R. Mitchell**. 2016. The more things change the more they stay the same? Importance of trait variability for ecosystem function stability in a changing environment. *Philosophical Transactions of the Royal Society B*. 371:201502272.
45. **Ames, G.M.* and J.P. Wright**. 2015. Multiple environmental drivers structure plant traits at the community level in a pyrogenic ecosystem. *Functional Ecology*. DOI: 10.1111/1365-2435.12536

46. E. Seabloom, E.T. Borer, Y. Buckley, W.E. Cleland, K. Davies, J. Firn, S. Harpole, Y. Hautier, E. Lind, A. MacDougall, J.L. Orrock, S.M. Prober, P. Adler, T.M. Anderson, J.D. Bakker, L.A. Biederman, D. Blumenthal, C.S. Brown, L.A. Brudvig, C. Chu, M.J. Crawley, E.I. Damschen, C.M. D'Antonio, N.M. DeCrappeo, G. Du, P.A. Fay, P. Frater, D.S. Gruner, N. Hagenah, A. Hector, H. Hillebrand, K.S. Hofmockel, H.C. Humphries, V.L. Jin, A. Kay, K.P. Kirkman, J.A. Klein, J.M.H. Knops, K.J. LaPierre, J.G. Lambrinos, A.D.B. Leakey, Q. Li, W. Li, R. McCulley, B. Melbourne, C.E. Mitchell, J.L. Moore, J. Morgan, B. Mortensen, D.A. Pyke, A.C. Risch, M. Schuetz, M. Smith, C. Stevens, L. Sullivan, E. Wolkovich, P.D. Wragg, **J. Wright**, L. Yang. 2015. Plant species origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. *Nature Communications*. 6: 7710.
47. **Ames, G.M.**, Vineyard, D.L., Anderson, S.M., and **J.P. Wright***. 2015. Annual growth in longleaf (*Pinus palustris*) and pond pine (*P. serotina*) in the Sandhills of North Carolina is driven by interactions between fire and climate. *Forest Ecology and Research*. 340:1-8.
48. Borer, E.T.*, E.W. Seabloom, D.S. Gruner, W.S. Harpole, H. Hillebrand, E.M. Lind, P.B. Adler, J. Alberti, T. M. Anderson, J.D. Bakker, L. Biederman, D. Blumenthal, C.S. Brown, L.A. Brudvig, Y.M. Buckley, M. Cadotte, C. Chu, E.E. Cleland, M.J. Crawley, P. Daleo, E.I. Damschen, K.F. Davies, N.M. DeCrappeo, G. Du, J. Firn, Y. Hautier, R.W. Heckman, A. Hector, J. HilleRisLambers, O. Iribarne, J.A. Klein, J.M.H. Knops, K.J. La Pierre, A.D.B. Leakey, W. Li, A.S. MacDougall, R.L. McCulley, B.A. Melbourne, C.E. Mitchell, J.L. Moore, B. Mortensen, L.R. O'Halloran, J.L. Orrock, J. Pascual, S.M. Prober, D.A. Pyke, A.C. Risch, M. Schuetz, M.D. Smith, C.J. Stevens, L.L. Sullivan, R.J. Williams, P. D. Wragg, **J.P. Wright**, L.H. Yang. 2014. Herbivores and nutrients control grassland plant diversity via light limitation. *Nature* 508:517-520.
49. Wang, S., E.S. Bernhardt, and **J.P. Wright***. 2014. Microbial diversity is linked to higher functional resistance. *Hydrobiologia*. 726: 13-23.
50. Seabloom, E. *, E.T. Borer, Y. Buckley, W.E. Cleland, K. Davies, J. Firn, S. Harpoled, Y. Hautier, E. Lind, , A. MacDougall , J. L. Orrock, S.M Prober, P. Adler, T. M. Anderson, J.D. Bakker, L.A. Biederman, D. Blumenthal, C.S. Brown, L. Brudvig, , C. Chu, M.J. Crawley, E. Damschen, C.M. Dantonio, N.M. DeCrappeo, G. Du, P.A. Fay, P. Frater, D.S. Gruner, N. Hagenah, A. Hector, H. Hillebrand, K.S. Hofmockel, H. Huphries, V.L. Jin, A. Kay, K.P. Kirkman, J.A. Klein, J.M.H. Knops, K.J. La Pierre, J.G. Lambrinos , A. Leakey, Q. Li, W. Li, R. McCulley, B. Melbourne, C. Mitchell, J. Moore, J. Morgan, B. Mortensen, D.A. Pyke, A.C. Risch, M. Schuetz, M. Smith, C. Stevens, L. Sullivan, E. Wolkovich, P.D. Wragg, **J. Wright**, L. Yang. 2013. Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness? *Global Change Biology* 19:3677-3687
51. Coleman, B.P., C. Arnaout, S. Anciaux, C. Gunsch, M.F. Hochella Jr., B. Kim, G.V. Lowry, B. McGill, B. Reinsch, C.J. Richardson, J. Unrine, **J.P. Wright**, L. Yin, E.S. Bernhardt. 2013. Low concentrations of silver nanoparticles in biosolids cause adverse ecosystem responses under realistic field scenario. *PLoS One* 8:e57189.
52. **Wright, J.P.** and A. Sutton-Grier. 2012. Does the leaf economic spectrum hold within local species pools across varying environmental conditions? *Functional Ecology*. 26:1390-1398.
53. Yin, L., E.S. Bernhardt, B. Colman, B. McGill, **J.P. Wright**. 2012. Effects of silver nanoparticle exposure on germination and early growth of eleven wetland plants. *PLoS One* 7:e47674.
54. Fridley, J.D.* and **J.P. Wright**. 2012. Climatic versus edaphic drivers of secondary succession rates across temperate latitudes of the Eastern U.S. *Oecologia* 168: 1069-1077.
55. Sutton-Grier, A.* **J.P. Wright**, and C. Richardson. 2013. Different plant traits affect two pathways of riparian nitrogen removal in a restored freshwater wetland. *Plant and Soil*. 365:41-57
56. Adler, P.B.* E.W. Seabloom, E.T. Borer, H. Hillebrand, Y. Hautier, A. Hector, L.R. O'Halloran, W.S. Harpole, T. M. Anderson, J.D. Bakker, L.A. Biederman, C.S. Brown, Y.M. Buckley, L.B. Calabrese, C.-J. Chu, E.E. Cleland, S.L. Collins, K.L. Cottingham, M.J. Crawley, K.F. Davies, N.M. DeCrappeo, P.A. Fay, J. Firn, P. Frater, E.I. Gasarch, D.S. Gruner, N. Hagenah, J. HilleRisLambers, H. Humphries, V.L. Jin, A.D. Kay, K.P. Kirkman, J.A. Klein, J. Knops, K.J. La Pierre, J.G. Lambrinos, W. Li, A.S. MacDougall, R.L. McCulley, B.A. Melbourne, C.E. Mitchell, J.L. Moore, J.W. Morgan, B. Mortenson, J.L. Orrock, S.M. Prober, D.A. Pyke, A.C. Risch, M. Schuetz, C.J. Stevens, L.L. Sullivan, G. Wang, P.D. Wragg, **J.P. Wright**, and L.H. Yang. 2011. Productivity is a poor predictor of plant species richness. *Science* 333:1750-1754.
57. Wang, S.*, E. Bernhardt, **J.P. Wright**, and M. Wallenstein. 2011. Watershed urbanization alters the composition and function of stream bacterial communities. *PLOSOne* 6:e22972
58. Sutton-Grier, A.*, **J.P. Wright**, B. McGill, and C. Richardson. 2011. Environmental conditions influence the plant functional diversity effect on potential denitrification. *PLoSOne* 6:e165854.

59. Warren, R.J.*, **J.P. Wright**, and M.A. Bradford. 2011. The putative niche requirements and landscape dynamics of *Microstegium vimineum*: an invasive Asian grass. *Biological Invasions*. 13:471-483.
60. McGill, B.M., A. Sutton-Grier, and **J.P. Wright***. 2010. Plant trait diversity buffers variability in denitrification potential over changes in season and soil conditions. *PLOSOne*. 5: e116118.
61. **Wright, J.P.***, J. Fridley. 2010. Biogeographic synthesis of secondary succession rates in Eastern North America. *Journal of Biogeography*. 37:1584-1596
62. Bartel, R.A.*, N.M. Haddad, and **J.P. Wright**. 2010. Ecosystem engineers maintain rare species and increase biodiversity. *Oikos* 119:883-890.
63. Reinhardt, L.*, D. Jerolmack, B. Cardinale, V. Vanacker, **J.P. Wright**. 2010. Dynamic Interactions of Life and its Landscape: feedbacks at the interface of geomorphology and ecology. *Earth Surface Processes and Landforms* 35:78-101
64. **Wright, J.P.*** 2009. Linking populations to landscapes: Species richness scenarios resulting from changes in the dynamics of an ecosystem engineer, the beaver (*Castor canadensis*). *Ecology* 90:3418-3429
65. Cardinale B.*, D. Srivastava, J. Duffy, **J. Wright**, A. Downing, M. Sankaran, C. Jouseau, M. Cadotte, I. Carroll, J. Weis, A. Hector, M. Loreau. 2009. Effects of biodiversity on the functioning of ecosystems: A summary of 164 experimental manipulations of species richness. *Ecology* 90:854
66. Srivastava, D.*, B. Cardinale, A. Downing, J. E. Duffy, C. Jouseau, M. Sankaran, **J.P. Wright**. 2009. Diversity has stronger top-down than bottom-effect effects on decomposition. *Ecology* 90:1073-1083
67. Cardinale, B.*, **J.P. Wright**, M. Cadotte, I. Carroll, A. Hector, D. Srivastava, M. Loreau, J. Weis. 2007. Impacts of plant diversity on biomass production increase through time because of species complementarity. *PNAS*. 104:18123-18128.
68. Badano, E.I.*, C.G. Jones, L.A. Cavieres, and **J.P. Wright**. 2006. Assessing impacts of ecosystem engineers on community organization: effects of the high-Andean cushion plant *Azorella monantha*. *Oikos*. 115:369-385.
69. Cardinale, B.*, D. Srivastava, E. Duffy, **J. Wright**, A. Downing, M. Sankaran, and C. Jouseau. 2006. Consistent effects of biodiversity on the functioning of trophic groups and ecosystems. *Nature*. 443:989-992.
70. **Wright, J.P.*** and C.G. Jones. 2006. The concept of organisms as ecosystem engineers ten years on: Progress, limitations, and challenges. *BioScience*. 56:203-209.
71. **Wright, J.P.***, C.G. Jones, B. Boeken, M. Shachak. 2006. Predictability of ecosystem engineering effects on species richness across environmental variability and spatial scales. *Journal of Ecology* 94: 815-824
72. **Wright, J.P.***, S. Naeem, A. Hector, C. Lehman, P. Reich, B. Schmid, and D. Tilman. 2006. Conventional functional classification schemes underestimate the relationship with ecosystem functioning. *Ecology Letters* 9: 111-120.
73. **Wright, J.P.***, W.S.C. Gurney, and C.G. Jones. 2004. Patch dynamics in an engineered landscape. *Oikos* 105: 336-348.
74. **Wright, J.P.*** and A.S. Flecker. 2004. Deforesting the riverscape: the effects of wood on fish diversity in a Venezuelan piedmont stream. *Biological Conservation* 120: 443-451.
75. **Wright, J.P.*** and C.J. Jones. 2004. Predicting effects of ecosystem engineers on patch-scale richness from primary productivity. *Ecology* 85: 2071-2081.
76. Naeem, S.* and **Wright, J.P.** 2003. Disentangling biodiversity effects on ecosystem functioning: deriving solutions to a seemingly insurmountable problem. *Ecology Letters* 6: 567-579
77. **Wright, J.P.***, A.S. Flecker, and C.G. Jones. 2003. Local versus landscape controls on plant species richness in beaver meadows. *Ecology* 84: 3162-3173
78. **Wright, J.P.***, C.G. Jones, and A.S. Flecker. 2002. An ecosystem engineer, the beaver, increases species richness at the landscape scale. *Oecologia* 132:96-101.

Book Chapters and Book Reviews

1. **Wright, J.P.**, A. Symstad, J.M. Bullock, K. Engelhardt, L. Jackson, E. Bernhardt. 2009. Restoring biodiversity and ecosystem function: will an integrated approach improve results? in S. Naeem, Bunker, D., Hector, A., M. Loreau and C. Perrings. eds. Biodiversity, ecosystem functioning and human well-being: an ecological and economic perspective. Oxford University Press. pp 167-177.
2. L. Jackson, Rosenstock, T., Thomas, M., Symstad, A., **Wright, J.P.** 2009. Managed ecosystems: biodiversity and ecosystem functions in landscapes modified by human use. in S. Naeem, Bunker, D., Hector, A., M. Loreau and C. Perrings. eds. Biodiversity, ecosystem functioning and human well-being: an ecological and economic perspective. Oxford University Press. pp 178-194.

3. Wilson, W.G. and **J.P. Wright**. 2007. Environmental effects on Lotka-Volterra community theory. in Cuddington, K., J. Byers, A. Hastings, and W. Wilson eds. *Ecosystem Engineers: Plants to Protists*. Elsevier. pp 211-228
4. Naeem, S., R. Colwell, S. Díaz, J. Hughes, C. Jouseau, S. Lavorel, P. Morin, O. Petchey, **J. Wright**. 2007. Predicting the ecosystem consequences of biodiversity loss: the BioMERGE framework. In J. Canadell, Pataki, D., and Pitelka, L. eds. *Terrestrial Ecosystems in a Changing World*. Springer. pp 113-126.
5. **Wright, J.P.** 2004. The beaver: natural history of a wetlands engineer: Review. *Quarterly Review of Biology* 79: 215
6. Ewing, H., K. Hogan, F. Keesing, H. Bugmann, A. Berkowitz, L. Gross, J. Oris, and **J. Wright**. 2003. The Role of Modeling in Undergraduate Education. in C.D. Canham, J.J. Cole, and W. K. Lauenroth eds. *Models in Ecosystem Science*. Princeton University Press. pp 413-427.

Publications In Review (Corresponding author indicated with *)

1. Podzikowski, L., **Lee, M.**, Fahey, C., **Wright, J.**, Flory, S. L., Phillips, R. In Review. Biogeochemical effects of a forest understory plant invasion depend more on dissimilar nutrient economies than invader biomass. *Elementa*
2. **Ury, E. M.** Ardon, **J. Wright**, and E. Bernhardt. In Review. Edaphic factors mediate the impacts of experimental salinization in a coastal forested wetland. In Review. *Ecosystems*.

Professional Service Activities

- ESA SEEDS mentor 2021
- Associate Editor for *Frontiers in Ecology and Evolution* 2019-
- Academic Editor for *PLoS ONE* 2009-2015
- Peer reviewer: *American Naturalist*, *Australian Journal of Ecology*, *Basic and Applied Ecology*, *Biological Conservation*, *BioScience*, *Ecography*, *Ecological Applications*, *Ecology*, *Ecology Letters*, *Functional Ecology*, *Hydrobiologia*, *Journal of Applied Ecology*, *Journal of Ecology*, *Journal of Theoretical Biology*, *Journal of Vegetation Science*, *Nature*, *Nature Ecology and Evolution*, *Oecologia*, *Oikos*, *Plant Biology*, *PLoS One*, *PNAS*, *Restoration Ecology*, *Soil Biology and Biochemistry*, *Wetlands*
- Served on NSF Review Panels for Population and Community Ecology and Arctic and Polar Programs
- Reviewed proposals from NSF (Ecology and Ecosystems Panels), Estonian Research Council, Israeli Science Foundation, National Geographic Foundation, Natural Sciences and Engineering Research Council of Canada, National Science Center Poland, New Hampshire Sea Grants, and Sigma Delta Epsilon Graduate Women in Science Fellowship
- Book reviewer *Quarterly Review of Biology*
- Coordinated Organized Oral Session on “Organisms as Ecosystem Engineers: Conceptual Progress, Limitations, and Challenges” at Annual Meeting of Ecological Society of America. 2004
- Co-Organizer of Symposium on “Revisiting the Holy Grail - Using trait-based ecology as a framework for preserving, utilizing, and sustaining our ecosystems” at Annual Meeting of Ecological Society of America 2012
- Co-Organizer of Symposium on “Biodiversity and ecosystem restoration in a changing world” at Annual Meeting of Ecological Society of America 2007
- Guest Editor, Special Section of *BioScience*: The concept of organisms as ecosystem engineers: Progress, limitations and future directions 2006
- Outreach and guest lectures at North Carolina School for Science and Math 2005 – 2008
- Mentor for Howard Hughes Precollege Program in the Biological Sciences to promote laboratory experience for women and minority high school students

Contributed Talks – Last 5 years (Lab Members in italics)

- *Ames, G.*, W.A. Wall, M.G. Hohmann, **J.P. Wright**. 2016. A comparison of functional traits between rare and abundant species in a fire adapted understory community. Talk, Annual Meeting of the Ecological Society of America.
- Bhattachan, A. T. Bendor, M. Ardon-Sayao, E. Bernhardt, **J.P. Wright**, R. Emanuel. Re-plumbing the coast: Untangling the effects of climate change and water management on vulnerability of coastal landscapes to saltwater incursion. Talk, Annual Meeting of the American Geophysical Union.

- *Lulow, K*, A.T. Reese, J.P. Wright.* 2016. Soil microbial community assembly driven by soil characteristics, climate, and cover. Poster. Annual Meeting of the Ecological Society of America. *Undergraduate
- *Mitchell, R.M. and J.P. Wright.* 2016. Do plants display "optimum" traits in optimal habitats? Talk, Annual Meeting of the Ecological Society of America.
- *Scheibe, A.B., S.L. Flory, J.P. Wright, R.P. Phillips.* 2016. Effects of an invasive understory plant on tree growth depend on resource competition and trait similarity. Talk, Annual Meeting of the Ecological Society of America.
- **Wright, J.P., R.M. Mitchell, G.M. Ames.** 2016. Implications of trait variability for biodiversity-ecosystem function relationships in a changing environment. Talk. Annual Meeting of the Ecological Society of America
- *Ames, G., W. Wall, M. Hohmann. And J.P. Wright.* 2015. Living on the edge: Functional trait differences between common and rare species in North Carolina's Sandhills. Talk. Annual Meeting of the Ecological Society of America
- *Mitchell, R.M. G. Ames, J.P. Wright* 2015. Does environmental variability drive plant functional trait variability? Talk. Annual Meeting of the Ecological Society of America.
- *Ficken, C. and J.P. Wright.* 2015 Differential plant responses to pulsed nitrogen additions. Talk. Annual Meeting of the Ecological Society of America.
- *Koltz, A.M. and J.P. Wright.* 2015. Top-down effects of predators on soil food web could buffer carbon losses in a warmer Arctic. Talk. Annual Meeting of the Ecological Society of America.
- **Wright, J.P., G. Ames, C. Fickens.** 2015. Consequences of changing fire frequency for carbon pools and fluxes in a Longleaf Pine savanna system. Talk. Annual Meeting of the Ecological Society of America.
- *Ames, G. and J.P. Wright.* 2014. The effects of different prescribed burning strategies on functional trait diversity in longleaf pine understory communities. Talk. Annual Meeting of the Ecological Society of America.
- *Ficken, C.D. and J.P. Wright.* 2014. How do prescribed burns influence nitrogen availability and cycling rates in a low-nutrient system? Poster. Annual Meeting of the Ecological Society of America.
- *Lee, M.R., L. Flory, R. Phillips, J.P. Wright.* 2014. What is a better indicator of an invader's N cycling impact, its abundance or degree of dissimilarity? Talk. Annual Meeting of the Ecological Society of America.
- *Ames, G. J.P. Wright, M. Hohmann.* 2013. Intraspecific variation matters: the forces that explain it and its impact on community weighted means in the Sandhills region of North Carolina. Talk. Annual Meeting of the Ecological Society of America.
- *Anderson. S. J.P. Wright, G. Ames, M. Hohmann.* 2013. How well do fire-related plant traits predict species pattern and fire behavior along a hydrologic gradient? Poster. Annual Meeting of the Ecological Society of America.
- *Ficken, C.D., G. Ames, S. Anderson, M. Hohmann, J.P. Wright.* 2013. Environmental controls on nutrient dynamics in a longleaf pine forest: How do soil moisture and fire interval affect plant-available nutrients? Poster. Annual Meeting of the Ecological Society of America.
- *Koltz, A.M. T. Hoyer, J.P. Wright.* 2013. Warming over the last 15 years has altered the functional composition of high-arctic arthropod communities. Talk. Annual Meeting of the Ecological Society of America.
- *Lee, M.R., E.S. Bernhardt, and J.P. Wright.* 2013. Do plant traits and preexisting ecosystem attributes predict the severity of invader impacts on nitrogen cycling? Talk. Annual Meeting of the Ecological Society of America.
- *Reese, A.T., J.P. Wright.* 2013. Manifold drivers of regional variation in successional timing: Modeling the impacts of latitudinal variation in growth rate and herbivory on herbaceous-woody competition. Poster. Annual Meeting of the Ecological Society of America.
- *Vineyard, D. J.P. Wright, G. Ames, S. Anderson, M. Hohmann.* 2013. The effects fire history and position along a hydrologic gradient on the yearly growth of *Pinus palustris* and *Pinus serotina* in a pine savannah ecosystem. Poster. Annual Meeting of the Ecological Society of America
- **J.P. Wright, P.D. Wragg, E.T. Borer, D.S. Gruner, H. Hillebrand, E.M. Lind, E.W. Seabloom, L.H. Yang, and Nutnet.** 2013. Predicting patterns of species turnover in response to nutrient addition and herbivory. Talk. Annual Meeting of the Ecological Society of America.
- **J.P. Wright.** 2012. How should trait based ecology deal with intraspecific trait variability. Symposium talk. Annual Meeting of the Ecological Society of America.
- *Heckman, R.W., J.P. Wright, C. E. Mitchell.* 2012. The effects of soil nutrients on foliar herbivory and disease on native and exotic old field species. Talk. Annual Meeting of the Ecological Society of America.

- *Koltz, A.M., and J.P. Wright.* 2012. Effects of wolf spider density on decomposer community structure and function in the Arctic. 2012. Poster. Ecological Society of America.
- *Koltz, A.M., J.M. Welker, and J.P. Wright.* 2012. Effects of Arctic warming on wolf spider feeding ecology. 2012. Poster. International Polar Year Conference
- *Lee, M.R., and J.P. Wright.* 2012. Linking species with their effects on ecosystem processes. Can an invasive species' density and relative abundance account for variability in soil net nitrification potential? Poster. Annual Meeting of the Ecological Society of America.
- Sutton-Grier, A. **J.P. Wright**, and C. Richardson. 2012. Lessons from applying a trait based framework for predicting restoration success. Symposium talk. Annual Meeting of the Ecological Society of America.
- Heckman, R.W., **J.P. Wright**, C.E. Mitchell. 2011. The effects of soil nutrients on foliar herbivory and disease on native and exotic old field species. Poster. Annual Meeting of the Ecological Society of America
- **Wright, J.P.** and *McGill, B.M.* 2011. Effect of biotic neighborhood on traits is more constrained for leaf-level relative to plant-level traits. Oral Presentation. Annual Meeting of the Ecological Society of America

Invited Talks – Last 10 years

- 2022 Invited speaker at Adult Education Seminar. Jewish Community Center, Durham
- 2021 Invited speaker at University Program in Ecology, Duke University
- 2021 Invited speaker at Lincoln Memorial University
- 2020 Invited speaker at Northeast Normal University, Changchun China (postponed due to coronavirus)
- 2019 Invited speaker at NC Wetland Summit, North Carolina State University
- 2019 Invited speaker at Cary Institute of Ecosystem Studies, Millbrook, NY
- 2018 Invited panelist at The Working Group of Life Indoors, North Carolina State University
- 2018 Invited speaker at Ecology and Evolutionary Biology seminar series, Wake Forest University
- 2016 Invited speaker at US-China Biodiversity Workshop, Zhejiang University, Hangzhou China
- 2015 Invited speaker at the German Center for Integrative Biodiversity Research (iDiv), University of Leipzig
- 2014 Invited speaker in Department of Evolutionary Biology seminar series, University of Potsdam
- 2014 Invited speaker in Department of Biodiversity Research seminar series, University of Potsdam
- 2013 Invited speaker in Ecology, Evolution and Marine Biology seminar series, UC Santa Barbara
- 2013 Invited speaker in Plant Biology seminar series, North Carolina State University
- 2012 Invited speaker at Odum School of Ecology seminar series, University of Georgia
- 2012 Invited speaker in Department of Biology seminar series, Wake Forest University
- 2012 Invited speaker in Curriculum in Ecology seminar series, University of North Carolina
- 2010 Invited speaker at Department of Biology seminar series, Eastern Carolina University
- 2010 Invited speaker at Stiltgrass Summit, Southern Illinois University
- 2009 Invited speaker at Evolutionary Morphology series, University of Chicago
- 2009 Graduate student invited speaker at Ecology and Evolutionary Biology seminar series, University of Oklahoma
- 2009 Invited speaker at Ecology seminar series, University of Wyoming
- 2007 Invited Speaker at Department of Biology seminar series, Appalachian State University

Professional Societies

Ecological Society of America

Course Taught

Alpine Ecology (University of Montana, Flathead Lake Biological Station Summer Program) 2006-2007
 BIOL 565 – Biodiversity Science and Application 2007 to 2018
 UPE 301& 302 – Ecosystem Module (2006, 2008) and Community Ecology Module (2007)
 BIOL 361– Field Ecology 2009 to present
 BIOL 49S (First Year Seminar) – Does Extinction Matter? The ethics, economics, and ecology of extinction 2009
 BIOL 209– Ecology for a Crowded Planet 2011 to present
 Spring Breakthrough – Mucking about in the Marsh – 2018 to 2020
 BIOL 566S – Readings in Plant Ecophysiology – 2020 to present

Post-Docs Mentored

Greg Ames, PhD Colorado State (2011-2016)
Rachel Mitchell, PhD University of Washington (2014-2017)
Tiffany Prest, PhD Duke University (2016-2017)
Jennifer Rocca, PhD Colordao State University (2018-present)

Current Graduate Students

Erin Coughlin, Biology Program, Duke University
David De La Mater, University Program in Ecology, Duke University
Anna Nordseth, University Program in Ecology, Duke University
Anita Simha, University Program in Ecology, Duke University
Richard Wong, University Program in Ecology, Duke University

Previous PhD Students

Cari Ficken, University Program in Ecology, Duke University (2018)
Amanda Koltz, University Program in Ecology, Duke University (2015)
Marissa Lee, University Program in Ecology, Duke University (2016)
Aspen Reese, University Program in Ecology, Duke University (2017)
Emily Ury, University Program in Ecology, Duke University (2021)
Si-Yi (Jenny) Wang, Biology, Duke University (2011)

Previous Masters Students

Eileen Thorsos, University Program in Ecology, Duke University (2011)

Current Graduate Committees

Alyssa Adler, Duke University (Brian Silliman, Advisor)
Anjali Boyd, Duke University (Brian Silliman, Advisor)
Camille DeSisto, Duke University (John Poulsen, Advisor)
Katrina DeWitt, Duke University (Jean-Philippe Gibert, Advisor)
Tristan Frappier-Brinton, Duke University (Anne Yoder, Advisor)
Leo Chan Gaskins, Duke University (Brian Silliman, Advisor)
Elizabeth Green, University of North Carolina (Charles Mitchell, Advisor)
Melodie Najarro, Duke University (Jean Philippe Gibert, Advisor)
Ryan O'Connell, Duke University (Bill Morris, Advisor)
Elise Paietta, Duke University (Anne Yoder, Advisor)
Shannon Skarha, Duke University (Francois Lutzoni, Advisor)
Stephanie Valdez, Duke University (Brian Silliman, Advisor)

Previous Graduate Committees

Steve Anderson North Carolina State University (Marcelo Ardon, Advisor, MSc 2020)
Becky Bartel, North Carolina State University (Nick Haddad, Advisor, PhD 2008)
Aaron Berdanier, Duke University (Jim Clark, Advisor, PhD 2016)
Liana Burghardt, Duke Univeristy (Kathleen Donohue, Advisor, PhD 2014)
Gregg Bonito, Duke University (Rytas Vilgalys, Advisor, PhD 2009)
Rebecca Dalton, Duke University (Bill Morris, Advisor, PhD 2019)
Julie Demeester, Duke University (Dan Richter, Advisor, PhD 2009)
Arietta Flemming-Davies, Duke University (Bill Morris, Advisor, PhD 2010)
Matt Fuller, Duke University (Martin Doyle, Advisor, PhD 2017)
Robert Heckman, University of North Carolina (Charles Mitchell, Advisor, PhD 2016)
Jason Jackson, Duke Universty (Rytas Vilgalys, Advisor, PhD 2010)
Lindsay Leverett, Duke University (Kathleen Donohue, Advisor, PhD 2018)
Alex Loomis, Duke Univeristy (Bill Morris, Advisor, PhD 2022)
Jose Eduardo Meireles, Duke University (Paul Manos, Advisor, PhD 2014)
Joe Morton, Duke University (Brian Silliman, Advisor, PhD 2022)
Chase Nunez, Duke University (John Poulsen, Advisor, PhD 2019)

Michael Osland, Duke University (Curt Richardson, Advisor, PhD 2009)
Alejandro Pietrek, Duke University (Bill Morris, Advisor, PhD 2015)
Andrew Procter, Duke University (Rob Jackson, Advisor, PhD 2012)
Carl Salk, Duke University (Jim Clark, Advisor, PhD 2011)
Robert Shriver, Duke University (Bill Morris, Advisor, PhD 2017)
Elizabeth Sudduth, Duke University (Emily Bernhardt, Advisor, PhD 2011)
Ariana Sutton-Grier, Duke University (Curt Richardson, Advisor, PhD 2008)
Denis Tarasi, University of North Carolina (Bob Peet, Advisor, PhD 2016)
Kris Voss, Duke University (Emily Bernhardt, Advisor, PhD 2015)
Jamie Wagner, Duke University (Mark Rausher, Advisor, PhD 2019)
Peter Wilfahrt, University of North Carolina (Peter White, Advisor, PhD 2016)
Aileen Waguespack, Duke University (Bill Morris, Advisor, PhD 2015)
Stephen Wood, Columbia University (Shahid Naeem, Advisor, PhD 2015)
Gwendolyn Williams, Duke University (Rytas Vilgalys, Advisor, PhD 2014)

Undergraduate Theses Advised

Andrew Golterman (2007)
Nathan Emery (2007)
Sarah Diel (2010)
Jamie Peeler (2012)
Kiki Contreras (2012)
Donnie Vineyard (2013)
James Cho (2016)
Morgan Irons (2017)
Courtney Hill (2019)
Allesandra Berge (2022)
Isabel Wood (2023)

Departmental and University Service

Biology Retreat Committee - Chair (2007)
Biology Departmental Seminar Committee – Co-Chair (2008-2009)
Biology Department Performance Review Committee (2012 to 2014, 2017 to 2020)
Director of Undergraduate Concentration in Ecology (2013-present)
Biology Steering Committee – (2009, 2012 to 2014, 2017-2020)
Biology Plant Facilities Committee – (2009 to present)
Oosting Lecture Committee – Chair (2009), member (2019)
UPE Executive Committee – (2009 to 2014)
Faculty Advisor to UPE Seminar Series – (2010 to 2014)
Green Labs at Duke (2012-2018)
Biology Department Curriculum Committee (2013 to 2014)
Duke Academic Council (2013 to 2018; 2021 to present)
Duke Campus Sustainability Committee (2013 to 2018)
Chair EEOB Sub-Departmental Strategic Planning Committee (2016)
Biology Department Awards Committee – Chair (2016 to 2017)
Duke Board of Trustees Committee for Undergraduate Education (2017-2018)
Duke Forest Advisory Committee (2018-present)
Search Committee for Duke University Director of Title IX Compliance (2018)
Academic Council's Faculty Hearing Committee (2018-2021)
Duke Huang Fellows evaluation Committee (2020-2021)
Duke University Climate Resilience Working Group (2020-2021)
Gibert Reappointment Committee, Chair (2021)
Duke Biology Graduate Affairs Committee (2020-2022)
Duke Biology Action on Justice Equity and Diversity Committee (2020-2022, Co-Chair 2021-2022)
Duke University Judicial Board (2021-2023)
Tenure Review Committee for Renee Richer (Duke Kunshan University (2022)
Co-Chair Biology Assistant Professor Search Committee (2022)

Advisors

Graduate

Alex Flecker, Department of Ecology and Evolution, Cornell University

Clive Jones, Institute of Ecosystem Studies

Post-Doctoral

Shahid Naeem, Department of Biology, University of Washington & Columbia University