

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

- Associate Professor, Department of Biology, Duke University. 2014-Present
- 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 Environmental Science and Policy, Nicholas School of the Environment and Earth Sciences, Duke University. 2004-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

- PI on “Plant Ecophysiology under Extreme Climate Events” ORNL \$24,999 (Fellowship awarded to Cari Ficken) ACTIVE
- PI on “Using Functional Traits to Inform Plant Conservation.” DOD \$113,497 ACTIVE
- 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 “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 (DDIG awarded to Marissa Lee) ACTIVE
- 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 ACTIVE
- 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 ACTIVE
- 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 *)

1. **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**. Accepted. Invasive species' leaf traits and dissimilarity from natives shape their impact on nitrogen cycling: a meta-analysis. *New Phytologist*
2. 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*.
3. 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
4. **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* . 371:201502272.
5. **Ames, G.M.*** and **J.P.Wright**. 2015. Multiple environmental drivers structure plant traits at the community level in a pyrogenic ecosystem. *Functional Ecology*.
6. 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, DA. 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 herbivoresin global grasslands. *Nature Commnications*. 6: 7710.
7. **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.
8. 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.
9. Wang, S., E.S. Bernhardt, and **J.P. Wright***. 2014. Microbial diversity is linked to higher functional resistance. *Hydrobiologia*. 726: 13-23.
10. 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
11. 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.
12. **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.
13. 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.

14. 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.
15. 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
16. 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.
17. 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
18. 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.
19. 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.
20. 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.
21. **Wright, J.P.***, J. Fridley. 2010. Biogeographic synthesis of secondary succession rates in Eastern North America. *Journal of Biogeography*. 37:1584-1596
22. Bartel, R.A.* N.M. Haddad, and **J.P. Wright**. 2010. Ecosystem engineers maintain rare species and increase biodiversity. *Oikos* 119:883-890.
23. 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
24. **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
25. 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
26. 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
27. 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.
28. 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.
29. 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.
30. **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.
31. **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
32. **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.
33. **Wright, J.P.***, W.S.C. Gurney, and C.G. Jones. 2004. Patch dynamics in an engineered landscape. *Oikos* 105: 336-348.
34. **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.
35. **Wright, J.P.*** and C.J. Jones. 2004. Predicting effects of ecosystem engineers on patch-scale richness from primary productivity. *Ecology* 85: 2071-2081.
36. 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

37. **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
38. **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. **Ames, G.M.** W. Wall, M. Hohmann, and **J.P. Wright**. Accepted pending revisions. Rare plants occupy a subset of trait space in a fire-dependent ecosystem. *Conservation Biology*.
2. Cleland, E. E., E.M Lind, N.M. DeCrappeo, E. DeLorenze, R. Abbott, P. Adler, J.D. Bakker, C.S. Brown, E. Esch, J. Firn, S. Gressard, D.S. Gruner, N. Hagenah, W.S. Harpole, Y. Hautier, S.E. Hobbie, K.S. Hofmocker, K. Kirkman, C. Kopp, J. Knops, K.J. LaPierre, S.M. Prober, A. MacDougall, B. Melbourne, J.L. Moore, A.C. Risch, M. Schuetz, C. Stevens, **J.P. Wright**, E. Borer, and E. Seabloom. In Review. Optimal allocation theory predicts plant growth responses to nutrient enrichment and light limitation across globally distributed grasslands. *Global Change Biology*.
3. **Ficken, C.D.***, **G.M. Ames**, **S.M. Anderson**, and **J.P. Wright**. In Review. Plant controls on post-fire nitrogen availability in a southern pine forest. *Oikos*.
4. **Ficken, C.D.*** and **J.P. Wright**. In Review. Disturbance-driven shifts in the plant community influence decomposition in a pyrogenic system. *Journal of Ecology*
5. Heckman, R.W., **J.P. Wright**, and C.E. Mitchell. In Review. Joint effects of nutrient addition and enemy exclusion on exotic plant dominance. *Ecology Letters*
6. **Lee, M.R.*** and **J.P. Wright**. In Review. Competitor context, not density, mediates invader's impacts on soil moisture and nitrogen. *PLoS One*.
7. **Lee, M.R.***, and **J.P. Wright**. In Review. Conditions that promote invader abundance can also limit its impact on soil nitrogen cycling. *Ecology*
8. McGill, B. and **J. Wright**. In review. Neighborhood-scale plant trait variability within and between species responds to neighbor density and identity. *Plant Ecology*.
9. Mitchell, R., **J. Wright**, G. Ames. In Review. Is trait variability the key to success? A case study across a wet-to-dry ecotone. *Journal of Ecology*
10. Reese, A.T., G.M. Ames, and **J.P. Wright**. In Review Variation in plant response to herbivory underscored by functional traits. *PLoS One*.

Professional Service Activities

- 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*, *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, 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. Hoye, **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 5 years

- 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 267 – Biodiversity Science and Application 2007 to present

UPE 301& 302 – Ecosystem Module (2006, 2008) and Community Ecology Module (2007)

BIOL 361 (formerly 181) – Field Ecology 2009 to present

BIOL 49S (First Year Seminar) – Does Extinction Matter? The ethics, economics, and ecology of extinction 2009

BIOL 209 (formerly 112) – Ecology for a Crowded Planet 2011 to present

Post-Docs Mentored

Greg Ames, PhD Colorado State (2011-Present)

Rachel Mitchell, PhD University of Washington (2014-Present)

Tiffany Prest, PhD (2016-Present)

Current Graduate Students

Cari Fickens, University Program in Ecology, Duke University

Aspen Reese, University Program in Ecology, Duke University

Previous PhD Students

Amanda Koltz, University Program in Ecology, Duke University (2015)

Si-Yi (Jenny) Wang, Biology, Duke University (2011)

Marissa Lee, University Program in Ecology, Duke University (2016)

Previous Masters Students

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

Current Graduate Committees

Aaron Berdanier, Duke University (Jim Clark, Advisor)

Rebecca Dalton, Duke University (Bill Morris, Advisor)

Robert Heckman, University of North Carolina (Charles Mitchell, Advisor)

Matt Fuller, Duke University (Martin Doyle, Advisor)

Michelle Jackson, Duke University (Jonathon Shaw Advisor)

Lindsay Leverett, Duke University (Kathleen Donohue, Advisor)

Robert Shriver, Duke University (Bill Morris, Advisor)

Denis Tarasi, University of North Carolina (Bob Peet, Advisor)

Peter Wilfahrt, University of North Carolina (Peter White, Advisor)

Previous Graduate Committees

Becky Bartel, North Carolina State University (Nick Haddad, Advisor, PhD 2008)

Liana Burghardt, Duke University (Kathleen Donohue, Advisor, PhD 2014)

Gregg Bonito, Duke University (Rytas Vilgalys, Advisor, PhD 2009)

Julie Demeester, Duke University (Dan Richter, Advisor, PhD 2009)

Arietta Flemming-Davies, Duke University (Bill Morris, Advisor, PhD 2010)

Jason Jackson, Duke University (Rytas Vilgalys, Advisor, PhD 2010)

Jose Eduardo Meireles, Duke University (Paul Manos, Advisor, PhD 2014)

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)
Elizabeth Sudduth, Duke University (Emily Bernhardt, Advisor, PhD 2011)
Ariana Sutton-Grier, Duke University (Curt Richardson, Advisor, PhD 2008)
Kris Voss, Duke University (Emily Bernhardt, Advisor, PhD 2015)
Aileen Waguespack, Duke University (Bill Morris, Advisor, PhD 2015)
Stephen Wood, Columbia University (Shahid Naem, 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)

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)
Biology Steering Committee – (2009, 2012 to 2014)
Biology Plant Facilities Committee – (2009 to present)
Oosting Lecture Committee – Chair (2009)
UPE Executive Committee – (2009 to 2014)
Faculty Advisor to UPE Seminar Series – (2010 to 2014)
Green Labs at Duke (2012-present)
Biology Department Curriculum Committee (2013 to 2014)
Duke Academic Council (2013 to 2015, 2016 to present)
Duke Campus Sustainability Committee (2013 to 2015, 2016 to present)
Chair EEOB Sub-Departmental Strategic Planning Committee (2016)
Biology Department Awards Committee – Chair (2016 to present)

Advisors

Graduate

Alex Flecker, Department of Ecology and Evolution, Cornell University
Clive Jones, Institute of Ecosystem Studies

Post-Doctoral

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