

Daniel J. Johnson

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Education

- Ph.D. Department of Biology, Indiana University, Bloomington, IN under Dr. Keith Clay
M.S. Environmental Science, School of Public and Environmental Affairs, Indiana University, Bloomington, IN
B.S. Forestry, School of Forestry and Natural Resources, Purdue University, West Lafayette, IN

Academic appointments and professional positions

- Assistant Professor* – School of Forest Resources and Conservation, University of Florida, Gainesville, FL 2018-present
Postdoctoral Researcher – Utah State University, Logan, UT. Dr. Will Parse. 2017-2018
Director's Fellow Postdoctoral Researcher – Los Alamos National Lab, Los Alamos, NM. Dr. Nate McDowell. 2015-2017
Postdoctoral Researcher – Yale University, New Haven, CT and The Ohio State University, Columbus, OH with Dr. Liza Comita. 2013 -2015
Assistant Instructor – Indiana University, 2006-2012
Graduate Assistant – IU Research and Teaching Preserve
Managed the preserve properties and oversaw field crew. 2005 - 2006
Consultant Forester – Performed Forest Inventory and Analysis (FIA) sampling. 2005 – 2008
Forester – USFS North Central Research Station FIA (half of Indiana's crew). 2000 – 2005
Timber Technician – Indiana DNR, Division of Forestry. 1996-1999

Teaching Experience

- Instructor of record, SPEA E-528 Forest Ecology and Management, Fall Term 2011 & 2012
Graduate course with 2 lectures and 1 lab per week, as well as supervising TA.
Co-Instructor, OVST-497 Roots, Fruits and Jamaican Ecologies Summer 2009 & 2010
A service learning course with undergraduate and graduate students on the interplay between culture and ecology in the Blue Mountains National Park and surrounding area.
Assistant Instructor, SPEA E-162 Environment and People Fall 2006
L-113 Introductory Biology Lab Spring 2007
B-352 Mycology Lab Fall 2007 & 2008
B-300 Vascular Plants Spring 2008-2012
B-364 Summer Flowering Plants Summer 2008
L-474 Field Ecology Fall 2009 & 2010

Peer Reviewed Publications

- Johnson, D.J., et al.** (42 coauthors) 2018 “Climate sensitive size-dependent survival in tropical trees” *Nature Ecology and Evolution*
- Hogan, J.A. (15 coauthors). 2018 “The frequency of cyclonic wind storms determines tropical forest dynamism and functional trait dispersion” *Forests* 9(7)
- Eppinga, M.B., Baudena, M., **Johnson, D.J.**, Jiang, J., Mack, K.M.L, Strand, A.E., Bever, J.D. 2018 “Frequency-dependent feedback and plant community coexistence” *Nature Ecology and Evolution*.
- Powell, T., Kueppers, L., Koven, C., Faybishenko, B., Fisher, R., **Johnson, D.J.**, Knox, R., McDowell, N., Condit, R., Hubbell, S. Wright, S.J., Chambers, J. 2018 “Variation in hydroclimate sustains tropical forest biomass and promotes functional diversity” *New Phytologist* 219(3)
- Hu, Z., Michaletz, S.T., **Johnson, D.J.**, McDowell, N.G., Huang, Z., Zhou, X., Xu, C. 2018 “Traits drive global wood decomposition more than climate” *Global Change Biology*. doi: 10.1111/gcb.14357
- Song, X., **Johnson, D.J.**, Cao, M., Umaña, N.M., Deng, X., Yang, X., Zhang, W. Yang, J. 2018 “The strength of density-dependent mortality is contingent on climate and seedling size” *Journal of Vegetation Science*. doi: 10.1111/jvs.12645
- Lutz, J., Furnis, T., **Johnson, D.J.**, (97 co-authors). 2018 “Global importance of large-diameter trees” *Global Ecology and Biogeography*. doi: 10.1111/geb.12747
- Craig, M.E., Turner, B.L., Liang, C., Clay, K., **Johnson, D.J.**, Phillips, R.P. 2018 “Tree mycorrhizal type predicts within-site variability in the storage and distribution of soil organic matter” *Global Change Biology*
- McDowell, N., et al. (1 of 36 coauthors). 2018 “Tansley review: Drivers and mechanisms of tree mortality in moist tropical forests”. *New Phytologist*. doi: 10.1111/nph.15027
- Johnson, D.J.**, Clay, K., Phillips, R.P. 2018 “Tree-fungal associations spatially structures old-growth forest community” *Oecologia*. doi: 10.1007/s00442-017-3987-0
- Johnson, D.J.**, Condit, R., Hubbell, S., Comita, L.S. 2017 “Abiotic niche partitioning and negative density dependence drive tree seedling survival in a tropical forest” *Proceedings of the Royal Society of London B*. doi: 10.1098/rspb.2017.2210
- Ramage, B., **Johnson, D.J.**, Gonzalez-Akre, E., McShea, W., Anderson-Teixeira, K., Bourg, N., Clay, K. 2017. “Sapling growth rates reveal conspecific negative density dependence in a temperate forest” *Ecology and Evolution* 7(19):7661-7671
- LaManna, J.A. et al (1 of 48 co-authors). 2017. “Plant diversity increases with strength of negative density dependence at the global scale” *Science* 356(6345):1389-1392
- Umana, M.N., Mi, X., Cao, M., Enquist, B., Hao, R.W., Iida, Y., **Johnson, D.J.**, Lin, L., Liu, X., Ma, K., Sun, I., Thompson, J., Uriarte, M. Wang, X., Wolf, A., Zimmerman, J.K., Swenson, N.G. 2017 “The importance of functional uniqueness, spatial aggregation and habitat preference for patterns of rarity in tree communities worldwide” *Global Ecology and Biogeography* 26(7): 777-786
- Hu, Z., Xu, C., McDowell, N., **Johnson, D.J.**, Wang, M., Luo, Y., Zhou, X., Huang, Z. 2017 “Linking microbial community composition to C loss rates during wood decomposition” *Soil Biology and Biochemistry* 104:108-116
- Lin, Y., Comita, L.S., **Johnson, D.J.**, Chen, M.R., Wu, S.H. 2016 “Biotic vs. abiotic drivers of seedling persistence in a tropical karst forest” *Journal of Vegetation Science* 28(1): 206-217
- Fisher, J.B., Sweeney, S., Brzostek, E.R., Evans, T.P., **Johnson, D.J.**, Myers, J.A., Bourg, N.A., Wolf, A.T., Howe, R.W., Phillips, R.P. 2016. “Tree-mycorrhizal associations detected remotely from canopy spectral properties.” *Global Change Biology* 22(7): 2596-2607

- Lu, J., **Johnson, D.J.**, Qiao, X., Lu, L., Wang, Q., Jiang, M. 2015 “Density dependence and habitat preference shape seedling survival in a subtropical forest in central China” *Journal of Plant Ecology* 8(6): 568-577
- Johnson, D.J.**, Flory, S.L., Shelton, A., Huebner, C., Clay, K. 2015 “Interactive effects of a non-native invasive grass *Microstegium vimineum* and herbivore exclusion on experimental tree regeneration under differing forest management” *Journal of Applied Ecology*. 52(1): 210-219
- Johnson, D. J.**, Bourg, N.A., Howe, R., McShea, W.J., Wolf, A., Clay, K. 2014 “Conspecific negative dependent mortality and the structure of temperate forests”. *Ecology* 95: 2493-2503
- Anderson-Teixeira, K. *et al.* (1 of 107 authors) 2015. “CTFS-Forest GEO: a worldwide network monitoring forests in an era of global change” *Global Change Biology* 21(2): 528-549
- Réjou-Méchain, M. *et al.* (1 of 66 authors) 2014. “Local spatial structure of forest biomass and its consequences for remote sensing of carbon stocks” *Biogeosciences Discussions*, 11(4): 5711-5742
- Brzostek, E., Dragoni, D., Schmidt, H., Rahman, F. Sims, D., Wayson, C., **Johnson, D.J.**, Phillips, R.P. 2014 “Chronic water stress reduces tree growth and carbon sink of deciduous hardwood forests” *Global Change Biology*. 20(8) 2531-2539
- Hobbs, F.C., **Johnson, D.**, Kearns, K. 2013 “A deliberate practice approach to teaching phylogenetic analysis” *CBE Life Sciences Education* 12: 676-686
- Woodall, C., Westfall, J., Zhu, K., **Johnson, D.**, 2013. “Assessing the effect of snow/water obstructions on the measurement of tree seedlings in a large-scale temperate forest inventory.” *Forestry*. 86: 421-427
- Johnson, D. J.**, W. T. Beaulieu, J. D. Bever, and K. Clay. 2012. Response to Comment on “Conspecific negative density dependence and forest diversity”. *Science*
- Reinhart, K. O., **D. Johnson**, and K. Clay. 2012. Conspecific plant-soil feedbacks of temperate tree species in the Southern Appalachians, USA. *PLoS ONE* 7:e40680
- Johnson, D. J.**, W. T. Beaulieu, J. D. Bever, and K. Clay. 2012. “Conspecific negative density dependence and forest diversity”. *Science* 336: 904-907 (*Web of Science: Highly cited paper)
- Reinhart, K. O., **D. Johnson**, and K. Clay. 2012. “Effects of trees on their recruits in the southern Appalachians, USA.” *Forest Ecology and Management* 263: 268-274

Technical Publication

- Woodall, C.W., **D. Johnson**, J. Gallion, C. Perry, B. Butler, R. Piva, E. Jepsen, D. Nowak, and P. Marshall. 2005. The State of Indiana’s Forests 2003. Resource Bulletin NC-253. Part A. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station. 95 p.

Fellowships, Grants and Awards

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| 2017 | PI The Smithsonian Institution Center for Tropical Forest Studies Award “Remeasuring the IU Forest Dynamics Plot.” \$15,360 |
| 2015-2017 | Director’s Fellowship Los Alamos National Laboratory. Earth and Environmental Sciences \$348,000 |
| 2013 | Floyd Final Year Fellowship for Plant & Fungal Biology. Department of Biology, Indiana University \$ 12,420 |
| 2012-2013 | PI The Smithsonian Institution Center for Tropical Forest Studies Award “Establishing the IU Forest Dynamics Plot.” \$30,759 |
| 2011-2013 | CO-PI National Science Foundation Doctoral Dissertation Improvement Grant “Assessing geographic patterns of negative density dependence in temperate tree species.” \$13,386 |

2009	CO-PI Indiana Academy of Sciences Senior Research Grant “Determining the diversity and spatial associations of trees in an Indiana old-growth forest” \$1,483
2007-2010	CO-PI USFS Northern Research Station Research Joint Venture "Dynamics, impacts and predictive modeling of <i>Microstegium vimineum</i> (Japanese stiltgrass) invasions in eastern deciduous forests" \$75,375
2007, 09, 11 & 12	Floyd Plant Sciences Fellowship, Indiana University ~\$2,000/yr
2008-2009	Teagle Fellowship for Scholarship in Teaching and Learning \$2,000
2008	Blatchley Nature Study Club Scholarship \$500

Professional Organization Affiliations

American Geophysical Union, Ecological Society of America, and Society of American Foresters