Black Rock Forest Papers and Publications 2019

2020

- Schuster, W.S. 2020. Future of Oak Forests experiment DBH of trees in Black Rock Forest, New York, USA, 2007. ver 1. Environmental Data
 - Initiative. https://doi.org/10.6073/pasta/da52f36341eebd575824d9201d0b3f31.
- Xu, M. 2020. Parametrized maximum entropy models predict variability of metabolic scaling across tree communities and populations. *Ecology*. <u>https://doi.org/10.1002/ecy.3011</u>

2019

Kilheffer, C. R., Underwood, H.B., Leopold, D.J., and R. Guerrieri. 2019. Evaluating legacy impacts of hyper-abundant white-tailed deer in forested stands of Harriman and Bear Mountain State Parks. U.S. Geological Survey (USGS)

Ladyhetz, E. 2019. Senior thesis.

- Levesque, M., L. Andreu-Hayles, W.K. Smith, A.P. Williams, M.L. Hobi, B.W. Allred, N. Pederson. 2019. Tree-ring isotopes capture interannual vegetation productivity dynamics at the biome scale. *Nature Communications* 10:742. <u>https://doi.org/10.1038/s41467-019-08634-y</u>
- Li, Ximeng, Xu, Chengyuan, Li, Zhengzhen, Feng, Jinchao, Tissue, David T. and Griffin, Kevin. 2019. Late growing season carbon subsidy in native gymnosperms in a northern temperate forest. *Tree Physiology* 00:1-12. <u>https://orcid.org/0000-0003-4124-3757</u>
- Maenza-Gmelch, T. 2019. NY Natural History Conference.
- O'Connor, M.R. (2019, August). A day in the life of a tree. The New Yorker.
- Singh-Smith, K. 2019. Post-Clean Air Act pH, alkalinity, and ecosystem recovery of 26 bodies of water in the Hudson Highlands. Senior Thesis, Dept. of Environmental Science, Barnard College.
- Singh-Smith, K. 2019. Post-Clean Air Act pH, alkalinity, and ecosystem recovery of 26 bodies of water in the Hudson Highlands. Poster, Senior Thesis Poster Session, Dept. of Environmental Science, Barnard College.
- Vaughan, E. 2019. Dietary analysis of the coyote (*Canis latrans*) population at Black Rock Forest. Senior Thesis, Dept. of Environmental Science, Barnard College.
- Vaughan, E. 2019. Dietary analysis of the coyote (*Canis latrans*) population at Black Rock Forest. Poster, Senior Thesis Poster Session, Dept. of Environmental Science, Barnard College.

- Case, M. and K.A. Stinson. 2018. Climate change impacts on the distribution on the allergenic plant common ragweed in the eastern US. PLOS One 13 (10) https://doi.org/10.1371/journal.pone.0205677
- Haines, D.F., J.A. Aylward, S.d. Frey, and K.A. Stinson. 2108. Regional patterns of floristic diversity and composition in forests invaded by garlic mustard (Alliaria petiolata).
 Northeastern Naturalist 25(3), 1 August, 2018. <u>https://doi.org/10.1656/045.025.0307</u>.
- Hooker, K.R., K.W. McFadden, K. Terlizzi and W.S.F. Schuster. 2018. Understanding abiotic and biotic responses of a forest ecosystem to a simulated pathogen attack. Canadian Journal of Forest Research, in review.

- Metzger, E. 2018. The effects of bracket material on the accuracy of electronic dendrometer devices. Poster, Barnard College Environmental Science Poster Session, New York.
- Patterson, A.E., R. Arkebauer, C. Quallo, M.A. Heskel, X. Li, N. Boelman and K.L. Griffin. 2018. Temperature response of respiration and respiratory quotients of 16 co-occuring temperate tree species. *Tree Physiology*. DOI: 10.1093/treephys/tpx176/4841720
- Piana, M. 2018. Barriers to urban forest recruitment: comparing urban and rural seed predation rates and species preference. Poster, Rutgers University.
- Record, S., T. McCabe, B. Baiser, and A.M. Ellison. 2018. Identifying foundation species in North American forests using long-term data on ant assemblage structure. Ecosphere (9)3. DOI: 10.1002/ecs2.2139

- Anthony, M.A., Frey, S.D., Stinson, K.A. 2017. Fungal community homogenization, shift in dominant trophic guild, and appearance of novel taxa with biotic invasion. Ecosphere 8(9). https://doi.org/10.1002/ecs2.1951
- Brady, J.F. 2017. Black Rock Forest Consortium white-tailed deer management. BRF internal report.
- Duveneck, M. J., and J. R. Thompson. 2017. Climate change imposes phenological trade-offs on forest net primary productivity, Journal of Geophysical Research: Biogeosciences. 122, doi:10.1002/2017JG004025.
- Duveneck, M.J., Thompson, J.R., Gustafson, E.J., Liang, Y., deBruijn A.M.G. Recovery dynamics and climate change effects to future New England forests. 2017. Landscape Ecology 32: 1385. <u>https://doi.org/10.1007/s10980-016-0415-5</u>
- Huntingford, C., Martinez- de la Torre, A., Mercado, L.M., Heskel, M.A., Harper, A.B.,
 Bloomfield, K.J., O'Sullivan, O.S., Reich, P.B., Withers, K.R., Butler, E.E., Chen, M.,
 Griffin, K.L., Meir, P., Tjoelker, M.G., Turnbull, M.H., Sitch, S., Wiltshire, A., Malhi,
 Y. 2017. Implications of improved representations of plant respiration in a changing
 climate. Nature Communications 8:1602
- Kutter, E., C. Yi, G. Hendrey, H. Liu, T. Eaton, and W. Ni-Meister. 2017. Recirculation over complex terrain. Journal of Geophysical Research: Atmospheres 122: 1-15. DOI: 10.1093/treephys/tpx176
- Levesque, M., L. Andreu-Hayles and N. Pederson. 2017. Water availability drives gas exchange and growth of trees in northeastern US, not elevated CO₂ and reduced acid deposition. Nature.com/Scientific Reports 7, Article number: 46158.
- O'Sullivan, O.S., Heskel, M.A., Reich, P.B., Tjoelker, M.G., Lasantha K. Weerasinghe, L.K., Penillard, A., Zhu, L., Egerton, J.G., Bloomfield, K.J., Creek, D., Bahar, N.H.A., Griffin, K.L., Hurry, V., Meir, P., Turnbull, M.H., and O.K. Atkin. 2017. Thermal limits of leaf metabolism across biomes. Global Change Biology 23(1): 209-223 doi: 10.1111/gcb.13477, 1-15.
- Schuster, W.S.F. (ed.). 2017. Tenth Black Rock Forest Research Symposium: Proceedings.
- Taylor, B., A.E. Patterson, M. Ajayi, R. Arkebauer, K. Bao, N. Bray, R.M. Elliott, P.P.G. Gauthier, J. Gersony, R. Gibson, M. Guerin, S. Lavenhar, C. Leland, L. Lemordant, E. Liao, R. Oliver, C. Prager, W.S.F. Schuster, N. Schwartz, C. Shen, K.P. Terlizzi, and K.L. Griffin. 2017. Growth and physiology of a dominant understory shrub *Hamamelis virginiana*, following canopy disturbance in a temperate hardwood forest. Canadian Journal of Forest Research 47(2): 193-202.

- Adefunke, S. 2016. Differences in leaf pigments, nutrients and physiology among five species of deciduous trees throughout the growing season. Poster, Barnard College Senior Thesis Poster Session, Barnard College, NY.
- Bartnick, E. 2016. Calculations of biomass of Black Birch trees in Black Rock Forest, Cornwall, New York. Undergraduate thesis, Department of Environmental Science, Barnard College.
- Bartnick, E. 2016. Biomass of black birch trees in Black Rock Forest, Cornwall, NY. Poster, Barnard College Senior Thesis Poster Session, Barnard College, NY.
- Brady, J.F. 2016. Black Rock Forest Consortium white-tailed deer management. BRF internal report.
- Chi, D. 2016. The effects of aggregate plant community functional biodiversity on local ecohydrology in herbivore-browsed and non-browsed forest areas. Undergraduate thesis, Department of E3B, Columbia University.
- Heskel, M.A., O.S. O'Sullivan, P.B. Reich, M.G. Tjoelker, L.K. Weerasinghe, A. Penillard, J.J.G. Egerton, D. Creek, K.J. Bloomfield, J. Xiang, F. Sinca, Z.R. Stangl, A. Martinez-de la Torre, K.L. Griffin, C. Huntingford, V. Hurry, P. Meir, M.H. Turnbull, and O.K. Atkin. 2016. Convergence in the temperature response of leaf respiration across biomes and plant functional types. Proceedings of the National Academy of Sciences U.S.A. 113 (14) 3832-3837.
- Naeem, S., C. Prager, B. Weeks, A. Varga, D.F.B. Flynn, K.L. Griffin, R. Muscarella, S. Wood, and W.S.F. Schuster. 2016. Biodiversity as a multidimensional construct: a review, framework and case study of herbivory's impact on plant diversity. Proceedings of the Royal Society B Vol. 283, No. 1844: 20153005
- Maenza-Gmelch, T, W.S.F Schuster and C. Kenyon. 2016. Hudson Highlands West Important Bird Area: Harriman and Sterling to Black Rock Forest and Storm King, New York. Poster, NAOC annual meeting, August 17, 2016 Washington, D.C.
- Merrill, E. 2016. Estimating the biomass of black birch trees in Black Rock Forest. Poster, Barnard College Senior Thesis Poster Session, Barnard College, NY.
- Merrill, E. 2016. A new biomass equation for black birch from Black Rock Forest, New York. Undergraduate thesis, Barnard College, Department of Environmental Science.
- Wasmuth, M. 2016. Patterns of bird diversity in relation to roads and trails. Undergraduate thesis, Department of Environmental Science, Barnard College.
- Wasmuth, M. 2016. Effects of different road types on breeding bird populations in a northeastern deciduous forest. Poster, Barnard College Senior Thesis Poster Session, Barnard College, NY.
- Xu, M. 2016. Ecological scaling laws link individual body size variation to population abundance fluctuation. Oikos 125(3): 288-299. DOI: 10.1111/oik.03100

Atkin, O.K., K.J. Bloomfield, P.B. Reich, M.G. Tjoelker, G.P. Asner, D. Bonal, G.B. Bonisch, M.G. Bradford, L.A. Cernusak, E.G. Cosio, D. Creek, K.Y. Crous, T.F. Domingues, J.S. Dukes, J.J.G. Egerton, J.R. Evans, G.D. Farquhar, N.M. Fyllas, P.P.G. Gauthier, E. Gloor, T.E. Gimeno, K.L. Griffin, R. Guerrieri, M.A. Heskel, C. Huntingford, F.Y. Ishida, J. Kattge, H. Lambers, M.J. Liddell, J. Lloyd, C.H. Lusk, R.E. Martin, A.P. Maksimov, T.C. Maximov, Y. Malhi, B.E. Medlyn, P. Meir, L.M. Mercado, N. Mirotchnick, D. Ng, U. Niinemets, O.S. O'Sullivan, O.L. Phillips, L. Poorter, P. Poot, I.C. Prentice, N. Salinas, L.M. Rowland, M.G. Ryan, S. Sitch, M. Slot, N.G. Smith, M.H. Turnbull, M.C. VanderWel, F. Valladares, E.J. Veneklaas, L.K. Weerasinghe, C. Wirth,

I.J. Wright, K.R. Wythers, J. Xiang, S. Xiang, and J. Zaragoza-Castells. 2015. Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. New Phytologist. 206(2): 614-636. DOI: 10.1111/nph.13253

- Aylward, J., D.F. Haines, and K. Stinson. 2015. Garlic mustard effects on landscape-scale temperate forest plant assemblages. 100th Symposium of the Ecological Society of America. 9–14 August, Baltimore, MD.
- Brady, J.F. 2015. Black Rock Forest Consortium white-tailed deer management. BRF internal report.
- Bray, N. 2015. Effects of tree girdling and herbivore exclusion on soils and microarthropod communities in a temperate deciduous forest. MS thesis, Department of E3B, Columbia University.
- Cohen, J.E., and M. Xu. 2015. Random sampling of skewed distributions implies Taylor's power law of fluctuation scaling. Proceedings of the National Academy of Sciences U.S.A. 112: 7749-7754. DOI: 10.1073/pnas.1503824112
- Cohen, J.E., M. Xu, and W.S.F. Schuster. 2015. Stochastic multiplicative population growth predicts and interprets Taylor's power law of fluctuation scaling. 9th International Conference on Differential Equations and Dynamical Systems, Dallas, TX, May 16, 2015.
- De Carvalho, A., D. DiStefano, and W. Schuster. 2015. A multidisciplinary, integrative approach to STEM teaching and learning. 44th Annual Conference of the North American Association for Environmental Education, San Diego, CA, October 14 18, 2015.
- Eisen, K., and A.B. Plotkin. 2015. Forty years of forest measurements support steadily increasing aboveground biomass in a maturing, *Quercus*-dominant northeastern forest. The Journal of the Torrey Botanical Society, 142(2): 97-112. DOI: 10.3159/torrey-d-14-00027.1
- Giometto, A., M. Formentin, A. Rinaldoa, J.E. Cohen, and A. Maritan. 2015. Sample and population exponent of generalized Taylor's law. Proceedings of the National Academy of Sciences 112(25): 7755-7760. DOI: 10.1073/pnas.1505882112
- Gmelch, P>L> 2015. Impact of deer herbivory on leaf nutrient content and leaf thickness of Betula lenta in Black Rock Forest, Mew York. Poster, 100th Annual Meeting of the Ecological Society of America, August 13, 2015, Baltimore, MD.
- Haines, D.F., J. Aylward, and K. Stinson. 2015. Garlic mustard effects on landscape-scale temperate forest plant assemblages. 26th Annual Harvard Forest Ecology Symposium. 17 March, Petersham, MA.
- Higashino, S.I. 2015. Species richness of cutaneous bacteria varies with urbanization: implications of habitat conditions on defense mechanisms of *Plethodon cinereus*. High school paper, Ossining High School, Ossining, NY.
- Jackson, A.K., D.C. Evers, E.M. Adams, D.A. Cristol, C. Eagles-Smith, S.T. Edmonds, C.E. Gray, B. Hoskins, O.P. Lane, A. Sauer, and T. Tear. 2015. Songbirds as sentinels of mercury in terrestrial habitats of eastern North America. Ecotoxicology 24(2): 453-467. DOI: 10.1007/s10646-014-1394-4.
- Levesque, M., L. Andreu-Hayles, and N. Pederson. 2015. High sensitivity of northeastern broadleaf forest trees to water availability. AGU Fall Meeting 2015, 14-18 December 2015, San Francisco, CA.
- Lindner, C. 2015. Black Rock Forest Visitor Access Pathway: archaeological reconnaissance, background research, and evaluation. BRF internal report.
- Maenza-Gmelch, T. 2015. Black Rock Forest Schunnemunk Mountain Important Bird Area Proposal. Black Rock Forest/Highlands Research Symposium (June, 2015). Cornwall, NY

BRF Publications, continued

- Maenza-Gmelch, T. and S. Gilly 2015. Bird diversity in relation to vegetation composition and structure at Black Rock Forest, Cornwall, New York. Abstracts of the 100th ESA Annual Meeting (August 10 14, 2015), Baltimore, Maryland.
- Patterson, A.E. 2015. Physiological capacities and response to temperature based on historic climactic provenances of tree species in a northeastern temperate forest. Oral presentation at public dissertation proposal, Columbia University, Department of Earth and Environmental Sciences (DEES), October 2015.
- Patterson, A.E. 2015. Physiological response to temperature across fifteen tree species in a northeastern temperate forest. Oral presentation, Columbia University Bridge to PhD Symposium, New York, NY, June 2015.
- Rubino, L., S. Charles, A.G. Sirulnik, A.R. Tuininga, and J.D. Lewis. 2015. Invasive insect effects on nitrogen cycling and host physiology are not tightly linked. Tree Physiology 35(2): 124-133. DOI: 10.1093/treephys/tpv004
- Schuster, W.S.F. (ed.). 2015. Ninth Black Rock Forest Research Symposium: Proceedings.
- Xu, M. 2015. Ecological scaling laws link individual body size variation to population abundance fluctuation. Oikos 125(3): 288-299. Published online ahead of print, Dec 7, 2015. DOI: 10.1111/oik.03100
- Xu, M., W.S.F. Schuster, and J.E. Cohen. 2015. Robustness of Taylor's law under spatial hierarchical groupings of forest tree samples. Population Ecology 57: 93-103. DOI 10.1007/s10144-014-0463-0
- Xu, M., W.S.F. Schuster and J.E. Cohen. 2015. Robustness of Taylor's law under spatial hierarchical groupings of forest tree samples. 2015 Ecological Society of America Annual Meeting, Modeling Section, Baltimore, MD, August 10, 2015.

- Alt, M., D. M. Peteet, and J. Nichols. 2014. Macrofossil and leaf wax biomarkers reveal vegetational and climate history of Tamarack Pond, Black Rock Forest, southeastern New York. AGU Fall Meeting 2014, December 15-19, San Francisco, CA. PP11A-1318.
- Ansley, J. 2014. The enduring storm: the story of the Storm King case and the people who launched the modern environmental movement. Interview, Marist College archives.
- Arkebauer, R. 2014. Respiratory response to temperature of broadleaf trees from the northeastern US. Senior Thesis, Department of Ecology, Evolution, and Environmental Biology, Columbia University.
- Arkebauer, R. 2014. Respiratory response to temperature of broadleaf trees in a northeastern forest. Poster, Barnard College Senior Thesis Poster Session, Barnard College, NY.
- Brady, J.F. 2014. Black Rock Forest Consortium white-tailed deer management. BRF internal report.
- Comas, L.H., H.S. Callahan and P.E. Midford. 2014. Patterns in root traits of woody species hosting arbuscular and ectomycorrhizas: implications for the evolution of belowground strategies. Ecology and Evolution 4(15). DOI: 10.1002/ece3.1147.
- DeCarvahlo, A.M., K. Pavlis, N. Stahelin. 2014. An integrative program modeling authentic field science experiences for students. 43rd Annual conference for the North American Association of Environmental Educators, Ottawa, Ontario.
- Falxa-Raymond, N, M.I. Palmer, T. McPhearson, and K.L. Griffin. 2014. Foliar nitrogen characteristics of four tree species planted in New York City forest restoration sites. Urban Ecosystems 17:807–824. DOI 10.1007/s11252-014-0346-3
- Gillet, A. and C.L. Seewagen. 2014. Mercury exposure of a wetland songbird, *Agelaius phoeniceus*, in the New York metropolitan area and its effect on nestling growth rate.

Environmental Monitoring and Assessment 186(7): 4029-4036. DOI: 10.1007/s10661 014-3677-x

- Hirshan, M. 2014. An analysis of biomass estimation techniques for two oak species at Black Rock Forest in Cornwall, New York. Undergraduate Thesis, Barnard College Department of Environmental Science.
- Keck, K.R. 2014. Assessing the response of small mammal functional guilds to a simulated pathogen attack in a deciduous forest. Masters Thesis, Clemson University.
- Keck, K.R. and K.W. McFadden. 2014. Loss of foundation tree species: Consequences for small mammal assemblages in forest ecosystems. North America Congress for Conservation Biology. Missoula, Montana. 14 July 2014. Oral presentation.
- Levy-Varon, J.H., W.S.F. Schuster, and K.L. Griffin. 2014. Rapid rebound of soil respiration following partial stand disturbance by tree girdling in a temperate deciduous forest. Oecologia 174: 1415 – 1424.
- Ovtsharenko, V.I., A.V. Tanasevitch, and B.P. Zakharov. 2014. A survey of the spiders of Black Rock Forest Preserve in New York (Arachnida: Araneae). Entomologica Americana, 120(1):24-38.
- Quallo, C.E. 2014. Is tree migration influenced by the respiratory quotient: a study in Black Rock Forest, NY. Undergraduate Thesis, Barnard College Department of Environmental Science.
- Quallo, C.E. 2014. Is tree migration influenced by respiratory quotient: a study in Black Rock Foreest, NY. Poster, Barnard College Senior Thesis Poster Session, Barnard College, NY.
- Patterson, A.E. 2014. Physiological response to temperature across fifteen tree species in a northeastern temperate forest. Oral presentation, Columbia University Bridge to PhD Symposium, New York, NY, June 2014.
- Patterson, A.E., W.S.F. Schuster, and K.L. Griffin. 2014. Physiological response to temperature across fifteen northern, central, and southern-ranged tree species in a northeastern temperate forest. Poster, Gordon Research Conference, Waterville Valley, New Hampshire, June 2014.
- Wayne, J. 2014. Effects of deer exclosure establishment and subsequent removal on vegetation diversity, tree regeneration, and vegetation biomass at Black Rock Forest. Undergraduate Thesis, Barnard College Department of Environmental Science.
- Wayne, J. 2014. Effects of deer exclosure establishment and subsequent removal on vegetation diversity, tree regeneration, and vegetation biomass at Black Rock Forest. Poster, Barnard College Senior Thesis Poster Session, Barnard College, NY.
- Xu, M., W.S.F. Schuster, and J.E. Cohen. 2014. Robustness of Taylor's law under spatial hierarchical groupings of forest tree samples. 7th International Symposium on Biomathematics and Ecology: Education and Research, Claremont, CA, October 11, 2014.
- Yu, J. 2014. Respiratory response to changing temperature across trees from three latitudinal ranges in Black Rock Forest. Undergraduate Thesis, Barnard College Department of Environmental Science.
- Yu, J. 2014. Respiratory response to changing temperature across trees from three latitudinal ranges in Black Rock Forest. Poster, Barnard College Senior Thesis Poster Session, Barnard College, NY.

- Alt, M. 2013. Macrofossil evidence for the vegetation and climate history of southeastern New York State from the Late Glacial to Early Holocene. Senior thesis, Department of Earth and Environmental Sciences, Columbia University, 37 p.
- Brady, J.F. 2013. Black Rock Forest Consortium white-tailed deer management. BRF internal report.
- Cohen, J. E., M. Xu, and W.S.F. Schuster. 2013. Stochastic multiplicative population growth predicts and interprets Taylor's power law of fluctuation scaling. Proceedings of the Royal Society B: Biological Sciences 280: 20122955.
- Djukic, I., K. McGuire, K.L. Griffin and W.S.F. Schuster. 2013. Effects of losing keystone oak species on soil microbial community composition in temperate forests in the USA. European Geosciences Union General Assembly 2013. Vienna, Austria, 7 – 12 April 2013.
- Gilly, S. 2013. Identifying and characterizing Cerulean Warbler (*Dendroica cerulean*) habitats in Black Rock Forest and Schunnemunk Mountain Forest, Orange County, NY. Senior Thesis, Barnard College Department of Environmental Science.
- Keck, K.R. and K.W. McFadden. 2013. Loss of foundation tree species: Consequences for small mammal assemblages in forest ecosystems. The Wildlife Society Conference. Milwaukee, Wisconsin. 7 October 2013. Poster presentation.
- Levy-Varon, J.H., W.S.F. Schuster, and K.L. Griffin. 2013. Impact of a simulated pathogen attack (Sudden Oak Death) on soil carbon storage in a northern temperate deciduous forest. Ecosystems; in review.
- Maenza-Gmelch, T. (2013). Bird Diversity in Relation to Vegetation Composition and Structure at Black Rock Forest. Black Rock Forest/Highlands Research Symposium (June, 2013). Cornwall, NY. (invited speaker, plenary session)
- McGuire, K.L., I. Djukic, W.S.F. Schuster, K.L. Griffin, K.C. Weathers, R. Rangamannar, C. Gillikin, C. Bateman, K. Pavlis, M. Orman, D. Merrer, and N. Fierer. 2013. Simulated oak loss in temperate forests results in increased N cycling and shifts in microbial community composition. Unpublished manuscript.
- McLear, B., and L. Mittel. 2013. The effect of oak death on non-oaks. Unpublished manuscript, Department of Statistics, Columbia University.
- Patterson, A.E. 2013. Physiological response to temperature across nine tree species in a northeastern temperate forest. MS Thesis, Department of Earth and Environmental Sciences, Columbia University.
- Patterson, A.E. 2013. Physiological response to temperature across nine tree species in a northeastern temperate forest. Oral presentation, abstract and poster, Graduate Student Symposium, Palisades, NY, March 2013.
- Patterson, A.E. 2013. Physiological response to temperature across nine tree species in a northeastern temperate forest. Oral presentation, abstract and poster, Northeastern Ecosystem Research Cooperative (NERC), Saratoga Springs, NY, April 2013.
- Patterson, A.E. 2013. Physiological response to temperature across nine tree species in a northeastern temperate forest. Oral presentation, abstract and poster, Graduate Climate Conference, Woods Hole Oceanographic Institution, Woods Hole, MA, November 2013.
- Schuster, W.S.F. (ed.). 2013. Eighth Black Rock Forest Research Symposium: Proceedings.
- Xu, M. 2013. Stochastic multiplicative population growth predicts and interprets Taylor's power law of fluctuation scaling. International Conference MPDE'13: Models in Population Dynamics and Ecology. University of Osnabrück, Germany, 26-29 August 2013 (http://www.usf.uos.de/mpde13/programme/#TOP4).

- Black Rock Forest Consortium. 2012. Assessing brook trout population status and potential for restoration in the Hudson Highlands. Final report to the Sarah K. de Coizart Article TENTH Perpetual Charitable Trust, 30 p.
- Brady, J.F. 2012. Black Rock Forest Consortium white-tailed deer management. BRF internal report, 10 pgs.
- Cohen, J.E., M. Xu, and W.S.F. Schuster. 2012. Allometric scaling of population variance with mean body size is predicted from Taylor's law and density-mass allometry. Proceedings of National Academy of Science U.S.A. 109(39): 15829-15834.
- Evers, D.C., A.K. Jackson, T.H. Tear, and C.E. Osborne. 2012. Hidden Risk: Mercury in terrestrial ecosystems of the Northeast. Biodiversity Research Institute. Gorham, Maine. BRI Report 2012-7. 33p.
- Falxa-Raymond, N., A. Patterson, W.S.F. Schuster. and K.L. Griffin. 2012. Oak loss increases foliar nitrogen, δ^{15} N and growth rates of *Betula lenta* in Black Rock Forest, Hudson Highlands, Southeastern New York State, USA. Tree Physiology 32 (9): 1092-1101.
- Levy-Varon, J. 2012. Belowground carbon pools and fluxes in a northern temperate deciduous forest and their response to stand disturbance. Ph.D. thesis, Graduate School of Arts and Sciences, Columbia University, New York.
- Levy-Varon, J., W.S.F. Schuster and K.L. Griffin. 2012. The autotrophic contribution to soil respiration in a northern temperate deciduous forest and its response to stand disturbance. Oecologia 169 (1): 211-220.
- Levy-Varon, J.H., W.S.F. Schuster, and K.L. Griffin. 2012. Soil respiration following partial stand disturbance by tree girdling rapidly rebounds within a three-year period in a temperate forest. Poster, Annual Meeting of the American Geophysical Union.
- Maenza-Gmelch, T. and S. Gilly (2012). Habitat-based bird monitoring in Black Rock Forest, Cornwall, NY: long-term trends and seasonal inventories, 2011. Abstracts of the 97th ESA Annual Meeting (August 5 – 10, 2012), Portland, Oregon.
- Maenza-Gmelch, T. and the members of the Case Studies in Land-use, Bird and Plant Dynamics class (2012). Encouraging Birds to Use the Barnard Green Roof: Feeder Pilot Project. Green Roof Science Symposium (April 17, 2012). Barnard College, New York, NY.
- Patterson, A.E. 2012. Warming Climates, Changing Forests: Temperature Tolerances of Trees and Carbon Dynamics in Northeastern Temperate Forests. Consilience: The Journal of Sustainable Development 9(1): 160-171
- Peterschild, J. 2012. Using dendrochronology to examine the growth patterns of eastern hemlock following hemlock woolly adelgid infestation. Senior Thesis, Division of Science, Mathematics, and Computing, Bard College, Annandale-on-Hudson, NY.
- Searle, S.Y., M.H. Turnbull, N.T. Boelman, W.S.F. Schuster, and K.L. Griffin. 2012. Urban environment of New York City promotes growth in northern red oak seedlings. Tree Physiology 32: 389-400.
- Villaba-Guerra, M. 2012. Assessing Populations of Painted Turtles (*Chrysemys picta*) in Ponds at Black Rock Forest, NY. Senior thesis, Department of Environmental Sciences, Barnard College, 34 p.
- Wyner, Y., and A. Berkov. 2012. The impact of an extended outdoor residential workshop on urban students' learning and appreciation of biodiversity. Cities and The Environment (CATE): Vol. 5, Iss. 1, Article 12.
- Xu, C-Y, M.H. Turnbull, D.T. Tissue, J.D. Lewis, R. Carson, W.S.F. Schuster, D. Whitehead, A.D. Walcroft, J. Li, and K.L. Griffin. 2012. Age-related decline of stand biomass accumulation is primarily due to mortality and not to reduction in NPP associated with individual tree physiology, tree growth or stand structure in a Quercus-dominated forest. Journal of Ecology 100: 428-440.

- Bibbo, S., and F. Corsi. 2011. Saproxylic mycodiversity in the Future of Oak Forests experiment. Poster, Columbia University.
- Brady, J.F. 2011. Black Rock Forest Consortium white-tailed deer management. Black Rock Forest internal report, 14 p.
- Falxa-Raymond, N. 2011. Ecological physiology of nitrogen use in trees following forest disturbances. M.As thesis, Department of Ecology, Evolution and Environmental Biology, Columbia University, New York.
- Falxa-Raymond, N., M.I. Palmer, T. McPhearson and K.L. Griffin. 2011. Leaf nitrogen characteristics of four tree species at New York City reforestation sites. Presentation, Society for Ecological Restoration Annual Mid-Atlantic Conference in New York, NY.
- Gary, G., and J.D. Lewis. 2011. Changes in plant growth, reproduction and offspring vigor with increasing distance from an urban center. Poster, Louis Calder Center Biological Station, Fordham University, Armonk, NY.
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