

SABRINA E. RUSSO

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EDUCATION

Ph.D. University of Illinois at Urbana-Champaign, Biology (2003). Advisors: Carol K. Augspurger and Scott K. Robinson
A.B. Harvard University, Biology with honors (1992).

RESEARCH INTERESTS: INTEGRATIVE PLANT BIOLOGY

- Plant life-history, functional, and ecophysiological variation in relation to demography, process models, and as determinants of plant species distributions and community structure
- Plant-microbial interactions in grasslands, agro-ecosystems, and forests

POSITIONS HELD

2020-present	Professor, School of Biological Sciences, University of Nebraska-Lincoln
2019-present	Member, Center for Plant Science Innovation, University of Nebraska-Lincoln
2013-2020	Associate Professor, School of Biological Sciences, University of Nebraska-Lincoln
2007-2013	Assistant Professor, School of Biological Sciences, University of Nebraska-Lincoln
2006-2007	Postdoctoral Fellow, University of Cambridge, UK (Dr. David A. Coomes)
2003-2006	Postdoctoral Fellow, Center for Tropical Forest Research - Arnold Arboretum Asia Program, Harvard University (Dr. Stuart J. Davies)
2002-2003	Research Assistant, Ecological Processes Branch, U.S. Army Corps of Engineers Research Laboratory, Illinois (Dr. Jeffrey S. Fehmi)
1996-1999	Graduate Teaching Assistant, University of Illinois
1997	Research Assistant, Smithsonian Tropical Research Institute, Panama (Dr. Jeff Brawn)

AWARDS AND DISTINCTIONS

2024-2025	UNL Research Leaders Program
2021	T.O. Haas Award for Outstanding Teaching
2014	Short-term Fellowship, Japan Society for Promotion of Science
2012, 2009	Certificate of Recognition for Contributions to Students
2010	Harold & Esther Edgerton Junior Faculty Award, University of Nebraska-Lincoln
2003	Robert Emerson Memorial Grant, University of Illinois (\$5,000 award)
2002	Dissertation Completion Fellowship, University of Illinois
1997	Incomplete List of Excellent Teachers, University of Illinois
1997	National Science Foundation Pre-Doctoral Fellowship

Manuscripts in Revision or Review

- McNichol^S, B., R. Wang, J.A. Gamon, S.E. **Russo**. Novel dimensions of leaf trait trade-offs. **Functional Ecology**, *in revision*.
- Yang^S, Y. G. Ledder, S.E. **Russo**. Costs and benefits of mycorrhizal symbiosis in a plant resource allocation framework. **Ecological Monographs**, *in revision*.

Peer-Reviewed Publications

78. Yang^S, Y., G. Pec, S.E. **Russo**. 2025. Distinct roles of bacteria and fungi in belowground networks and predicting plant diversity and productivity in a North American grassland. **FEMS Microbiology Ecology**, *accepted*.
77. Jaramillo, P.A., S.E. **Russo**, A. Duque, N. Castaño, & D. Zuleta. 2025. Marked tree demographic variation along subtle elevation differences partially explains species' habitat associations in an Amazonian forest. **Journal of Ecology** doi.org/10.1111/1365-2745.70132
76. Libalah, M.G. Chuyong, S.E. **Russo**, D. Thomas, D. Kenfack. 2025. Tree stature structures demography and diversity in an African tropical rainforest. **Ecosphere**, doi.org/10.1002/ecs2.70144.
75. Huanca-Nuñez^S, N. R.L. Chazdon, S.E. **Russo**. 2024. Trait-mediated variation in seedling performance in Costa Rican successional forests: comparing above-ground, below-ground, and allocation-based traits. **Plants** 13(17): 2378, doi.org/10.3390/plants13172378 *cover article for special issue
74. Zhang, C., R. Gu, L. Lin, S.E. **Russo**. 2024. Functional traits and ecological niches as correlates of the interspecific growth-mortality trade-off among seedlings of 14 tropical tree species. **Functional Ecology** 38:1888–1901, doi.org/10.1111/1365-2435.14624
73. McNichol^S, B., C. Helzer, S. McMahon, R. Wang, S.E. **Russo**. 2024. Topography-driven microclimate gradients shape forest structure, diversity, and composition in a temperate refugial forest. **Plant-Environment Interactions** 5(3):e10153, doi.org/10.1002/pei3.10153.
72. Wang, R., J.A. Gamon, S.E. **Russo**, A.V. Nishimwe, B. Wardlow. 2024. Multitemporal airborne imaging spectrometry and fluorometry reveal contrasting photoprotective responses of trees. **Remote Sensing of Environment** 311: 114295, doi.org/10.1016/j.rse.2024.114295.
71. Bin, Y., S.E. **Russo**, J. Zhang, Y. Li, H. Cao, W. Ye, & J. Lian. 2024. Functional traits are more strongly correlated with biomass than diameter growth. **Journal of Ecology** 112:1225–1239, doi.org/10.1111/1365-2745.14281.
70. Yang^S, Y. and S.E. **Russo**. 2024. Trade-offs in rooting strategy dimensions along an edaphic gradient in a grassland ecosystem. **Functional Ecology** 38:792–807, doi.org/10.1111/1365-2435.14514. * **2024 winner of Haldane Prize for Early Career Scientists**
69. Whitman^S, M. and S.E. **Russo**. 2024. Biogeographic history and centers of richness define elevational range-size patterns for Malesian flora. **Ecography** e07043, doi.org/10.1111/ecog.07043.
68. Medina-Vega JA, Zuleta D, Aguilar S, Alonso A, Bissiengou P, Brockelman WY, Bunyavejchewin S, Burslem DFRP, Castaño N, Chave J, Dalling JW, de Oliveira AA, Duque Á, Ediriweera S, Ewango CEN, Filip J, Hubbell SP, Itoh A, Kiratiprayoon S, Lum SKY, Makana JR, Memiaghe

- H, Mitre D, Mohamad MB, Nathalang A, Nilus R, Nkongolo NV, Novotny V, O'Brien MJ, Pérez R, Pongpattananurak N, Reynolds G, **Russo** SE, Tan S, Thompson J, Uriarte M, Valencia R, Vicentini A, Yao TL, Zimmerman JK, Davies SJ.. 2024. Tropical tree ectomycorrhiza are distributed independently of soil nutrients. **Nature Ecology and Evolution**, 8:400–410, doi.org/10.1038/s41559-023-02298-0.
67. Yadav^g, P., A. Quattrone^g, Y. Yang^g, J. Owens, R. Kiat, T. Kuppasamy, S.E. **Russo** & K.A. Weber. 2023. *Zea mays* genotype influences microbial and viral rhizobiome community structure. **ISME Communications**. 3, 129, doi.org/10.1038/s43705-023-00335-4
 66. Quattrone^g, A., Y. Yang^g, P. Yadav^g, K.A. Weber, S.E. **Russo**. 2023. Nutrient and microbiome-mediated plant-soil feedbacks in domesticated and wild Andropogoneae: Implications for agroecosystems. **Microorganisms** (Special Issue Rhizosphere Microbial Community 2.0), 11(12), 2978, doi.org/10.3390/microorganisms11122978.
 65. Quattrone^g, A.; M. Lopez-Guerrero; P. Yadav^g, M.A. Meier; K.A. Weber; S.E. **Russo**. 2023. Interactions between root hairs and the soil microbial community affect the growth of maize seedlings. **Plant Cell, and Environment**, 47(2):611-628, doi.org/10.1111/pce.14755. * **Top 10% most downloaded papers in 2023**
 64. Nuñez^g, N.H., R.L. Chazdon, S.E. **Russo**. 2023. Large mammals selectively reduce seedling establishment of larger-seeded species in Costa Rican secondary forests. **Journal of Applied Ecology**, 60:2561–2572, doi.org/10.1111/1365-2664.14531
 63. Russo, S.E., D. Dent, L.G. Lohmann, J.S. Powers. 2023. ATBC 2023 Student and Early Career Awards. **Biotropica**, in press, doi.org/10.1111/btp.13279
 62. Delavaux CS, LaManna JA, Myers JA, Phillips RP, Aguilar S, Allen D, Alonso A, Anderson-Teixeira KJ, Baker ME, Baltzer JL, Bissengou P, Bonfim M, Bourg NA, Brockelman WY, Burslem DFRP, Chang LW, Chen Y, Chiang JM, Chu C, Clay K, Cordell S, Cortese M, den Ouden J, Dick C, Ediriweera S, Ellis EC, Feistner A, Freestone AL, Giambelluca T, Giardina CP, Gilbert GS, He F, Holík J, Howe RW, Huaraca Huasca W, Hubbell SP, Inman F, Jansen PA, Johnson DJ, Kral K, Larson AJ, Litton CM, Lutz JA, Malhi Y, McGuire K, McMahon SM, McShea WJ, Memiaghe H, Nathalang A, Norden N, Novotny V, O'Brien MJ, Orwig DA, Ostertag R, Parker GG', Pérez R, Reynolds G, **Russo** SE, Sack L, Šamonil P, Sun IF, Swanson ME, Thompson J, Uriarte M, Vandermeer J, Wang X, Ware I, Weiblen GD, Wolf A, Wu SH, Zimmerman JK, Lauber T, Maynard DS, Crowther TW, Averill C. 2023. Mycorrhizal feedbacks influence global forest structure and diversity. **Communications Biology**, 6(1):1066. doi.org/10.1038/s42003-023-05410-z
 61. McNichol^g, B. and S.E. **Russo**. 2023. Plant species' capacity for range shifts at the habitat and geographic scales: A trade-off-based framework. **Plants** 12(6):1248, doi.org/10.3390/plants12061248
 60. Gamon, J.A., R. Wang, R., S.E. **Russo**. 2023. Contrasting photoprotective responses of forest trees revealed using PRI light responses sampled with airborne imaging spectrometry. **New Phytologist** 238(3): 1318-1332, doi.org/10.1111/nph.18754. ** Featured in Virtual Special Issue on Innovations in plant science from integrative remote sensing research ([nph.onlinelibrary.wiley.com/doi/toc/10.1111/\(ISSN\)1469-8137.integrative-remote-sensing](https://nph.onlinelibrary.wiley.com/doi/toc/10.1111/(ISSN)1469-8137.integrative-remote-sensing))
 59. **Russo**, S.E., D. Dent, L.G. Lohmann, J.S. Powers. 2022. ATBC 2022 Student and Early Career Awards. **Biotropica**, 54: 1519-1520. doi.org/10.1111/btp.13169.

58. **Russo^C**, S.E., G. Ledder, E.B Muller, R. Nisbet. 2022. Dynamic energy budget models: Fertile ground for understanding resource allocation in plants in a changing world. **Conservation Physiology** 10(1):coac06, doi.org/10.1093/conphys/coac061
57. Gonzalez-Akre, E., C. Pioniot, M. Lepore, V. Herrmann, J.A. Lutz, J.L. Baltzer, C.W. Dick, G.S. Gilbert, F. He, M. Heym, A.I. Huerta, P.A. Jansen, D.J. Johnson, N. Knapp, K. Král, D. Lin, Y. Malhi, S.M. McMahon, J.A. Myers, D. Orwig, D.I. Rodríguez-Hernández, S.E. **Russo**, J. Shue, X. Wang, A. Wolf, T. Yang, S.J. Davies, K.J. Anderson-Teixeira. 2022. allodb: An R package for biomass estimation at globally distributed extratropical forest plots. **Methods in Ecology and Evolution** 13: 330-338. doi.org/10.1111/2041-210X.13756
56. Russell, A.E., TM Aide, E Braker, CN Ganong, RD Hardin, KD Holl, and others including S.E. **Russo**. 2022. Integrating tropical research into biology education is urgently needed, PLoS biology 20 (6), e3001674 doi.org/10.1371/journal.pbio.3001674
55. Bin, Y., Y. Li, S.E. **Russo**, H. Cao, Y. Ni, W. Ye, J. Lian. 2022. Leaf trait expression varies with tree size and ecological strategy along vertical environmental gradients in a subtropical forest. **Functional Ecology** 36:1010– 1022, doi.org/10.1111/1365-2435.14003
54. Segnitz^g, R.M., S.E. **Russo**, K.G. Peay. 2022. Interactions with soil fungi alter density-dependence and neighborhood effects in a locally abundant dipterocarp species. **Ecology and Evolution** 12, e8478. doi.org/10.1002/ece3.8478
53. Anderson-Teixeira, K. A. et al., including S.E. **Russo**. 2022. Joint effects of climate, tree size, and year on annual tree growth derived from tree-ring records of ten globally distributed forests. **Global Change Biology** 28: 245– 266, doi.org/10.1111/gcb.15934
52. **Russo**, S.E., D. Dent, L.G. Lohmann, J.S. Powers. 2021. 2021 Student and Early Career Awards. **Biotropica** 53:1710-1711. doi.org/10.1111/btp.13019
51. Whitman^g, W., R.S. Beaman, R. Repin, K. Kitayama, S.-I. Aiba, S.E. **Russo**. 2021. Edaphic specialization and vegetation zones define elevation range-sizes for Mt. Kinabalu regional flora. **Ecography** 44: 1698-1709, doi.org/10.1111/ecog.05873
50. Nuñez^g, N.H., R.L. Chazdon, S.E. **Russo**. 2021. Seed rain-successional feedbacks in a wet tropical forest. **Ecology** 102(7):e03362. doi.org/10.1002/ecy.3362
49. **Russo^C**, S.E., S.M. McMahon, M. Detto, S.J. Wright, R.S. Condit, S.J. Davies, S. Bunyavejchewin, C.-H. Chang-Yang, C.E.N. Ewango, C. Fletcher, R.B. Foster, C.V.S. Gunatilleke, I.A.U.N. Gunatilleke, T. Hart, C.-F. Hsieh, S.P. Hubbell, A. Itoh, A.R. Kassim, Y.-C. Lin, J.-R. Makana, P. Ong, A. Sugiyama, I.-F. Sun, S. Tan, J. Thompson, T. Yamakura, S.L. Yap, J.K. Zimmerman. 2021. The interspecific growth-mortality trade-off is not a general framework for tropical forest community structure. **Nature Ecology and Evolution** 5:174–183 doi.org/10.1038/s41559-020-01340-9 * *Cover article*
48. Davies, S.J., including S.E. **Russo**. 2021. ForestGEO: Understanding forest diversity and dynamics through a global observatory network. **Biological Conservation** 253:108907, doi.org/10.1016/j.biocon.2020.108907
47. Busta^P, L., S.E. **Russo**. 2020. Integrating disciplines in a plant chemistry laboratory module to enhance interdisciplinary and scientific thinking in undergraduate students. **Journal of Chemical Education** 97:4406-4413 doi.org/10.1021/acs.jchemed.0c00395

46. Ledder, G., S.E. **Russo**, E.B. Muller, A. Peace, R. Nisbet. 2020. Local control of resource allocation is sufficient to model optimal dynamics in stable, obligate syntrophic systems. **Theoretical Ecology** 13:481–501 doi.org/10.1007/s12080-020-00464-9
45. Weemstra^P, M., K.G. Peay, S. J. Davies, M. Mohamad, A. Itoh, S.E. **Russo**^C. 2020. Lithological constraints on resource economies shape the mycorrhizal composition of a Bornean rain forest. **New Phytologist** 228: 253–268 doi.org/10.1111/nph.16672
44. Segnitz^S, R.M., S.E. **Russo**, K.G. Peay. 2020. Ectomycorrhizal fungi drive positive phylogenetic plant-soil feedbacks in a regionally dominant tropical plant family. **Ecology** 101(8) e03083 doi.org/10.1002/ecy.3083
43. Bin^S Y., G. Lin, S.E. **Russo**, Y. Shen, J. Lian, H. Cao, W. Ye. 2019. Evidence for a colonization-competition trade-off correlated with functional trait variation among tree species in a subtropical forest. **Scientific Reports** 9:14942. doi.org/10.1038/s41598-019-50604-3
42. Zuleta^S, D., S.E. **Russo**, M. Detto, A. Barona, D. Cardenas, N. Castaño, S.J. Davies, S. Sua, B.L. Turner, A. Duque. 2018. Importance of topography for tree species habitat distributions in a terra firme forest in the Colombian Amazon. **Plant and Soil**, 450:133–149 doi.org/10.1007/s11104-018-3878-0
41. Couvreur^P, V., G. Ledder, D.A. Way, E.B. Muller, S. Manzoni, S.E. **Russo**^C. 2018. Water transport through tall trees: A vertically-explicit, analytical model of xylem hydraulic conductance. **Plant, Cell, and Environment** 41:1821–1839 doi.org/10.1111/pce.13322
40. Viriouvét^P, L., T.J. Avenson, Q. Du^S, C. Zhang, N. Liu, M. Fromm, Z. Avramova, S.E. **Russo**^C. 2018. Dehydration stress memory: Gene co-expression networks linked to physiological responses during successive dehydration stresses in *Zea mays*. **Frontiers in Plant Science** 9, 24 July 2018, doi.org/10.3389/fpls.2018.01058.
39. Jin^P Y., S.E. **Russo**, M. Yu. 2018. Effects of light and topography on regeneration and coexistence of evergreen and deciduous tree species in a Chinese subtropical forest. **Journal of Ecology** 106:1634–1645 doi.org/10.1111/1365-2745.12911
38. Fukami, T. M. Nakajima, C. Fortunel, P.V.A. Fine, C. Baraloto, S.E. **Russo**, K.G. Peay. 2017. Geographical variation in community divergence: Insights from tropical forest monodominance by ectomycorrhizal trees. **American Naturalist** 190: S105–S122.
37. **Russo**^C, S.E. 2017. Seed Dispersal, in Fuentes *et al.* (eds) *International Encyclopedia of Primatology*.
36. **Russo**^C, S.E. and K. Kitajima. 2016. The ecophysiology of leaf lifespan in tropical forests: adaptive and plastic responses to environmental heterogeneity, in Santiago, L. and G. Goldstein (eds) *Tropical Tree Physiology: Adaptations and Responses in a Changing Environment*.
35. Wilson, M.C., X.-Y. Chen, R.T. Corlett, R.K. Didham, P. Ding, R.D. Holt, M. Holyoak, L. Jiang, G. Hu, A.C. Hughes, W.F. Laurance, J. Liu, S.L. Pimm, S.K. Robinson, S.E. **Russo**, X. Si, D.S. Wilcove, J. Wu, and M. Yu. 2015. Habitat fragmentation and biodiversity conservation: Key findings and future challenges. **Landscape Ecology** 31:219–227.
34. Heineman^S, K.D., S.E. **Russo**, I.C. Baillie, J. D. Mamit, P. P-K. Chai, L. Chai, E. W. Hindley, L.B. Ting, S. Tan, P.S. Ashton. 2015. Evaluation of stem rot in 339 Bornean tree species: implications of size, taxonomy, and soil-related variation for aboveground biomass estimates. **Biogeosciences**, 12: 5735–5751.
33. Heineman^S, K.D., S.E. **Russo**, I.C. Baillie, J. D. Mamit, P. P-K. Chai, L. Chai, E. W. Hindley, L.B. Ting, S. Tan, P.S. Ashton. 2015. Influence of tree size, taxonomy, and edaphic conditions on

- heart rot in mixed-dipterocarp Bornean rainforests: implications for aboveground biomass estimates. **Biogeoscience Discussions**, 12 6821-6861.
32. Peay*, K.G., S.E. **Russo***, K. McGuire, Z. Lim, J.P. Chan, S. Tan, S.J. Davies. 2015. Lack of host specificity leads to independent assortment of dipterocarps and ectomycorrhizal fungi across a soil fertility gradient. **Ecology Letters** 18: 807-816. ****First two authors contributed equally to this article.***
 31. Roccaforte^g, K., D. Pilson, S.E. **Russo**. 2015. Hybridization and reproductive isolation between diploid *Erythronium mesochoreum* and its tetraploid congener *E. albidum* (Liliaceae). **Evolution** 69: 1375–1389.
 30. Paine, C.E.T., *et al.* including S.E. **Russo**. 2015. Globally, functional traits are weak predictors of juvenile tree growth, and we do not know why. **Journal of Ecology** 103: 978-989.
 29. Stephenson, N., A. Das, R. Condit, S.E. **Russo**, P. Becker, D. Coomes, *et al.*, including N. Beckman^p. 2014. Rate of tree carbon accumulation increases continuously with tree size. **Nature** 507:90-93. [428 citations; 35% contribution] ****Designated highly cited publication by Web of Science; Press articles in Lincoln Journal Star and Omaha World Herald***
 28. Kenfack, D., G. Chuyong, R. Condit, S.E. **Russo**, D.W. Thomas. 2014. Demographic variation and habitat specialization of tree species in a diverse tropical forest of Cameroon **Forest Ecosystems** 1:1-13.
 27. **Russo**^c, S.E., A. Kochsie^p, J. Olney^u, L. Thompson^u, A.E. Miller, and S. Tan. 2013. Nitrogen uptake strategies of edaphically specialized Bornean tree species. **Plant Ecology** 214:1405–1416.
 26. Kochsie^p, S. Tan, and S.E. **Russo**^c. 2013. Fine root dynamics in relation to nutrients in oligotrophic Bornean forest soils. **Plant Ecology** 214: 869-882.
 25. Queenborough, S.A., Forget, P.M. and **Russo**, S.E. 2013. Adding spice to life: A special issue on the Myristicaceae. **Tropical Conservation Science** 6:592-594.
 24. **Russo**^c, S.E., R. Legge^g, K. Weber, E. Brodie, K.C. Goldfarb, A. Benson, and S. Tan. 2012. Bacterial community structure of contrasting soils underlying Bornean rain forests: inferences from microarray and next-generation sequencing methods. **Soil Biology and Biochemistry** 55: 48-59.
 23. **Russo**^c, S.E., L. Zhang^g, and S. Tan. 2012. Covariation between understorey light environments and soil resources in Bornean mixed dipterocarp rain forest. **Journal of Tropical Ecology** 28:33–44.
 22. Heineman^u, K., E. Jensen^u, B. Bogenrief^u, A. Shapland^u, S. Tan, R. Rebarber, S.E. **Russo**. 2011. The effect of belowground resources on aboveground growth and allometry in six Bornean tree species. **Forest Ecology and Management** 261:1820-1832.
 21. **Russo**^c, S.E. and C.A. Chapman. 2011. Primate seed dispersal: Consequences of behavior for forest communities and conservation. Pgs. 510-525. *In* C.J. Campbell, A.F. Fuentes, K.C. MacKinnon, M. Panger, and S. Bearder (Eds.). *Primates in Perspective, 2nd edition*. Oxford University Press.
 20. **Russo**^c, S.E., W.L. Cannon^u, C. Elowsky, S. Tan, S.J. Davies. 2010. Variation in leaf stomatal traits of 28 tree species in relation to water-use efficiency along an edaphic gradient in

- Bornean rain forest. **American Journal of Botany** 97: 1109–1120. [40 citations; 80% contribution]
19. **Russo**^C, S.E., K. Jenkins^g, S. Wiser, D.A. Coomes. 2010. Relationships between wood traits and growth and mortality rates of New Zealand tree species. **Functional Ecology** 24: 253–262.
 18. **Russo**^C, S.E., P. Brown, S. Tan, S.J. Davies. 2008. Interspecific demographic trade-offs and soil-related habitat associations of tree species along resource gradients. **Journal of Ecology** 96:192–203.
 17. **Russo**^C, S.E., S.W. Wiser, D.A. Coomes. 2008. (Russo et al. 2007): A re-analysis of growth–size scaling relationships of woody plant species. **Ecology Letters** 11: 311–312.
 16. **Russo**^C, S.E., S.W. Wiser, D.A. Coomes. 2007. Growth-size scaling relationships of woody plant species differ from predictions of the Metabolic Ecology Model. **Ecology Letters** 10: 889–901.
 15. **Russo**^C, S.E., M.D. Potts, S.J. Davies, and S. Tan. 2007. Determinants of tree species distributions: Comparing the roles of dispersal, seed size, and soil specialization in a Bornean rain forest. In A. Dennis, R. Green, E.W. Schupp, D. Wescott, (Eds.). *Seed Dispersal: Theory and its Application in a Changing World*. CAB International.
 14. **Russo**^C, S.E., S. Portnoy, C.K. Augspurger. 2006. Incorporating animal behavior into seed dispersal models: Implications for seed shadows and an example for a primate-dispersed tree. **Ecology** 87: 3160–3174.
 13. Condit, R., P.S. Ashton, S. Bunyavejchewin, H.S. Dattaraja, S. Davies, S. Esufali, C. Ewango, R. Foster, I.A.U.N. Gunatilleke, C.V.S. Gunatilleke, P. Hall, K.E. Harms, T. Hart, C. Hernandez, S. Hubbell, A. Itoh, S. Kiratiprayoon, J. LaFrankie, S. Loo de Lao, J.-R. Makana, Md.N.S. Noor, A.R. Kassim, S.E. **Russo**, R. Sukumar, C. Samper, H.S. Suresh, S. Tan, S. Thomas, R. Valencia, M. Vallejo, G. Villa, T. Zillio. 2006. Importance of demographic niches to tree diversity. **Science** 313:98–101.
 12. Baillie, I. C., P. S. Ashton, S. P. Chin, S. J. Davies, P. A. Palmiotto, S. E. **Russo**, and S. Tan. 2006. Spatial associations of humus, nutrients, and soils in mixed dipterocarp forest at Lambir, Sarawak, Malaysian Borneo. **Journal of Tropical Ecology** 22:543–553.
 11. Chapman, C.A. and S.E. **Russo**. 2006. Primate seed dispersal: Linking behavioral ecology with forest community structure. Pgs. 510–525. In C.J. Campbell, A.F. Fuentes, K.C. MacKinnon, M. Panger, and S. Bearder (Eds.). *Primates in Perspective*. Oxford University Press.
 10. **Russo**^C, S.E., S.J. Davies, D. King, and S. Tan. 2005. Soil-related performance variation and distributions of tree species in a Bornean rain forest. **Journal of Ecology** 93:879–889
 9. **Russo**^C, S.E. 2005. Linking seed fate to dispersal patterns: identifying factors affecting predation and scatter-hoarding of seeds of *Virola calophylla* in Peru. **Journal of Tropical Ecology** 21:243–253.
 8. **Russo**^C, S.E., C.J. Campbell, J.L. Dew, P.R. Stevenson, S. Suarez. 2005. A multi-site comparison of dietary preferences and seed dispersal by *Ateles* spp.. **International Journal of Primatology** 26:1017–1037.
 7. Campbell, C.J., F. Aureli, C.A. Chapman, G. Ramos-Fernandez, K. Matthews, S.E. **Russo**, S.A. Suarez, L. Vick. 2005. Terrestrial Behavior of Spider Monkeys (*Ateles* spp.): A Comparative Study. **International Journal of Primatology** 26:1039–1051.

6. Fehmi, J.S., S.E. **Russo**, and J.W. Bartolome. 2005. The effects of livestock on California ground squirrels (*Spermophilus beecheyi*). **Rangeland Ecology and Management** 58:352-359.
5. **Russo**^C, S.E. and C.K. Augspurger. 2004. Aggregated seed dispersal by spider monkeys limits recruitment to clumped patterns in *Virola calophylla*. **Ecology Letters** 7:1058-1067.
4. **Russo**^C, S.E., S.K. Robinson, and J. Terborgh. 2003. Size-abundance relationships in an Amazonian bird community: Implications for the energetic equivalence rule. **The American Naturalist** 161: 267-283.
3. **Russo**^C, S.E. 2003. Responses of dispersal agents to tree and fruit traits in *Virola calophylla* (Myristicaceae): Implications for selection. **Oecologia** 136:80-87.
2. Near, T.J., S.E. **Russo**, C.D. Jones, A.L. DeVries. 2003. Ontogenetic shift in buoyancy and habitat in the Antarctic toothfish, *Dissostichus mawsoni* (Perciformes: Nototheniidae). **Polar Biology** 26:124-128.
1. Schupp, E.W., T. Milleron, and S.E. **Russo**. 2002. Dissemination limitation and the origin and maintenance of species-rich tropical forests. Pgs. 19-34. In D.J. Levey, W.R. Silva, and M. Galetti (Eds.). *Seed Dispersal and Frugivory: Ecology, Evolution and Conservation*. CAB International.

FUNDED RESEARCH GRANTS (* indicates active grants)

*Gamon, J.A. (PI) and **Russo**, S.E. (Co-PI), Wang, R. (Co-PI), Wardlow, B. (Co-PI), and Qi, Y. (Co-PI) Assessing forest health using advanced remote sensing approaches. USDA McIntire-Stennis Capacity Grant. (\$358,500; 01/01/2022 – 09/30/2026).

*Davies, SJ (PI) and **Russo**, SE (Co-PI) AccelNet: International Tropical Forest Science Alliance (ITFSA): A multi-network science and training initiative to accelerate understanding of the role of tropical forests in the Anthropocene, \$1,999,818; National Science Foundation: AccelNet, 01/31/2020 - 11/30/2025

Russo, S.E. (PI), R. Wood, Y. Ge, D. Uden, T. Bragg (Co-PIs). Optimizing prescribed fire management to maximize forest diversity and resilience. University of Nebraska Collaboration Initiative. (\$149,697; 09/01/2023 – 06/30/2025).

Russo, S.E. (PI), Wang, R. (Co-PI), Haacker, E. (Co-PI), and Weber, K. (Co-PI) Nebraska's forest-prairie boundary: A resilient ecosystem or sentinel of climate change? University of Nebraska-Lincoln. (\$14,949; 10/01/2023 – 12/31/2024).

Russo, SE (P) Effects of redcedar on the diversity and ecosystem services of Nebraska's forests, \$28,163, Nebraska Environmental Trust, 05/2021- 06/2023

Russo, S.E. (PI) and Ledder, G. (PI) UNL College of Arts and Sciences International Research Collaborations Grant: \$9,780, Hydraulic Model for Trees; to fund Working Group Meeting at UNL 12/2016 – 06/2017.

Russo, S.E. (PI) "Forests on the Edge: The Forest-Prairie Transition in the US Midwest", Smithsonian Institution: \$215,000, 03/01/2018-02/28/2020.

Russo, S.E. (PI) "Physiological Basis of Climate-related Changes in Biomass and Composition in Nebraskan Boundary Forests." UNL Layman New Directions Award, \$10,346.

Choobineh, F. (PI), **Russo**, S.E. (and others), Role: Senior Personnel, “EPSCoR RII Track 1: Center for Root and Rhizobiome Innovation (CRRI)”, National Science Foundation – EPSCoR; Total Award Amount: \$10 million, 06/15/2016 – 05/31/2021

Russo, S.E. (Co-PI) with Chazdon, R. (PI) and Uriarte, M. (Co-PI). “Seedling regeneration and tree-frugivore interaction networks during tropical forest regeneration.” National Geographic Society (\$25,000; 12 Jan 2015 – 30 Aug 2016).

Russo, S.E. with Ledder, G. and Nisbet, R. “A Mechanistic Dynamic Energy Budget Model of Tree Performance to Predict Functional Trait Drivers, Species Distributions, and Responses to Global Change” (Funded Working Group – National Institute for Mathematical and Biological Synthesis, University of Tennessee, Knoxville).

Russo, S.E. (PI) with Peay, K. (PI). “RAPID: Collaborative Research: Do negative plant-soil feedbacks outweigh positive ectomycorrhizal mutualisms in dipterocarp rainforest?” National Science Foundation Population & Community Ecology Cluster (\$127,847; 1 Nov 2013 – 30 Oct 2015)

2012 and earlier

Russo, S.E. (Co-PI) with Fromm, M.E. (PI), Avromova, Z. (Co-PI), Cahoon, E. (Co-PI), Riethoven, J.J. (Co-PI). “Memory of a drought: training plants to withstand dehydration stress” UNL Life Sciences Competitive Grants Program – Interdisciplinary Teams (\$200,000; July 2011 – June 2013)

Russo, S.E. “Mechanisms underlying the growth-survival trade-off among tree species in relation to edaphic specialization” National Science Foundation Population and Community Ecology Cluster (\$157,141; 1 August 2009 – 31 October 2012)

Russo, S.E. “Mechanisms underlying the growth-survival trade-off among tree species in relation to edaphic specialization (REU Supplement Funding)” National Science Foundation Population and Community Ecology Cluster (\$4,658; 31 May 2011 – 31 October 2012)

Russo, S.E. “Mechanisms underlying the growth-survival trade-off among tree species in relation to edaphic specialization (REU Supplement Funding)” National Science Foundation Population and Community Ecology Cluster (\$6,195; 31 May 2010 – 31 October 2012)

Russo, S.E. & D. Pilson. “Mechanisms of reproductive isolation between *Erythronium mesochoreum* and *E. albidum* (Liliaceae)” UNL Faculty Grant-In-Aid of Research (\$9,988; Jan 2010 – Dec 2010).

Russo, S.E. “An Integrated Ecosystems- and Community-level Approach to Explaining Habitat Specialization by Tropical Forest Tree Species,” University of Nebraska-Lincoln, Layman Trust Fund Award (\$9,970; 1 June 2008 – 31 May 2009)

Russo, S.E. “The Role of Habitat Specialization of Tropical Forest Trees in Patterns of Biodiversity,” University of Nebraska-Lincoln, Maude Hammond Fling Faculty Research Fellowship (\$9,847; 1 January 2008 – 31 December 2008)

2006 and earlier

Center for Tropical Forest Science Research Grant (\$11,000)

University of Illinois Clark Graduate Summer Grant (\$2,500; 2002)

Organization for Tropical Studies Graduate Research Fellowship (\$2,822; 2001)

University of Illinois Clark Memorial Graduate Research Fund Grant (\$2,000; 2001)

University of Illinois Program in Ecology and Evolutionary Biology Research Grant (\$1,000; 2001)

University of Illinois Clark Memorial Graduate Research Fund Grant (\$5,000; 2000)

University of Illinois Graduate Dissertation Travel Grant (\$4,000; 2000)

American Ornithologists' Union Dissertation Research Grant (\$1,427; 1999)
University of Illinois Clark Memorial Graduate Research Fund Grant (\$700; 1999)
University of Illinois Graduate College Enhancement Fund for outside curricula (\$626; 1997)

INVITED DEPARTMENTAL & WORKSHOP SEMINARS (^ indicates international)

2024

University of Wyoming, Department of Botany

2023

ForestGEO International Data Analytical Workshop

2020

Complex Biosystems Program, UNL
Center for Plant Science Innovation, UNL, Research Seminar
School of Biological Sciences, UNL, Research Seminar

2018

Holden Arboretum, Ohio
^Smithsonian ForestGEO Workshop, Czech Republic

2017

^Bosques y Conservación Ambiental, Universidad Nacional de Colombia - Sede Medellín
Center for Plant Science Innovation, UNL, Research Seminar

2016

Dept. of Biodiversity, Earth, and Environmental Sciences, Drexel University, USA

2015

^Tupper Seminar, Smithsonian Tropical Research Institute, Panama
^Invited Speaker, Workshop on Habitat Fragmentation & Biodiversity Conservation, Hangzhou, China

2014

^FEFCO Seminar, Kyoto University, Japan
^Forestry Laboratory, Graduate School of Agriculture, Kyoto University, Japan
^Tohoku University, Sendai, Japan
^Division of Bio- and Geosciences, Osaka City University, Japan
^Forestry and Forest Products Research Institute, Tsukuba, Japan
^CTFS-SIGEO Workshop, Xishuangbanna Tropical Botanical Garden, China
^Forest Department Sarawak, Malaysia

2013

^DANTA Field Course: Primate Behavior and Conservation, Osa Peninsula, Costa Rica
^CTFS-SIGEO Workshop, Smithsonian Institution Front Royal, VA, USA

2012 and earlier

School of Biological Sciences Seminar, University of Nebraska – Lincoln (2012)
Department of Biological Sciences, Kent State University (2012)
Division of Biology, Kansas State University (2011)
Department of Ecology and Environmental Biology, Iowa State University (2011)
USGS Powell Center for Analysis and Synthesis: Working Group on Tree Biomass Growth (2011)
Omaha's Henry Doorly Zoo (2010)
Harvard University's Biodiversity of Borneo Field Course, Lambir Hills NP, Malaysia (2009)

Department of Biological Sciences, University of Nebraska – Omaha (2009)
 Ecology, Evolution, & Behavior Seminar, SBS, University of Nebraska – Lincoln (2009)
 School of Natural Resources, Applied Ecology Seminar, University of Nebraska, Lincoln (2009)
 Center for Grassland Studies, University of Nebraska, Lincoln (2009)
 Department of Organismic and Evolutionary Biology, Harvard University (2008)
 Department of Ecology and Evolutionary Biology, University of Michigan - Ann Arbor (2008)
 Program in Ecology, Evolution, and Conservation, University of Illinois, Urbana-Champaign (2008)
 Department of Biology, University of Miami, Miami (2008)
 Ecology, Evolution, and Behavior Seminar, SBS, University of Nebraska – Lincoln (2008)
 Math-Biology Program, University of Nebraska – Lincoln (2007)
 ^School of Biological Sciences, University of Aberdeen, Aberdeen, UK (2007)
 Nebraska Citizens for Science, Lincoln (2007)
 ^Department of Plant Sciences, University of Cambridge, Cambridge, UK (2006)
 Department of Integrative Biology, University of California - Berkeley (2006)
 Kellogg Biological Station & Michigan State University, East Lansing (2006)
 School of Biological Sciences, University of Nebraska, Lincoln (2006)
 ^Department of Botany, University of Toronto, Canada (2005)
 ^Ecology Group, Macquarie University, Sydney, Australia (2005)
 ^Department of Biological Sciences, National University of Singapore (2005)
 Department of Biology, University of Washington, Seattle (2005)
 Department of Zoology, University of Florida at Gainesville (2004)
 Ecology Group, Tufts University, Massachusetts (2004)
 Grinnell College, Iowa (2003)
 Center for Tropical Research, University of California at Los Angeles (2002)
 Department of Biological Sciences, University of Illinois - Chicago (2002)

SYMPOSIA ORGANIZED AT NATIONAL/INTERNATIONAL MEETINGS

(Symbols: ^U Undergraduate student, ^G Graduate student, ^P Postdoctoral fellow)

- Worthy^P, S. & Russo, S.E. 2025. *Drivers of geographic ranges in a rapidly changing world*. Ecological Society of America 2025 Annual Meeting, Baltimore, MD.
- Russo, S.E. & McNichol^G, B.H. 2023. *North American boundary forests: diversity, conservation, and fire management*. Society of American Foresters 2024 Meeting, Sacramento, CA.
- Huanca-Nunez^G, N. & S.E. Russo. 2021. *Symposium - Effects of Seed Dispersal on Forest Regeneration During Succession in Human-Modified Landscapes*. ATBC 2021: Virtual Meeting of the Association for Tropical Biology and Conservation.
- Ledder, G. & S.E. Russo 2019. *Mini-Symposium: Mathematical models of Plants*, Society for Mathematical-Biology, Montreal, Canada.
- Russo, S.E. & S.J. Davies 2018. *Symposium 34: Changing environments & changing forests: spatial and temporal variation in the dynamics of Southeast Asian forests*, Association for Tropical Biology and Conservation, Kuching, Malaysia.
- Russo, S.E. & Kitajima, K. 2014. *Organized Oral Session: Trait-based trade-offs in tropical forests (Co-organized with K. Kitajima)*, Association for Tropical Biology and Conservation (ATBC), Cairns, Australia.

INVITED PRESENTATIONS IN SYMPOSIA/ORGANIZED ORAL SESSIONS (*Speaker underlined*)

- Worthy^P, S., B.H. McNichol^G, S.E. Russo. 2025. Consistency in habitat occupancy across the geographic ranges of tree species in eastern North America, *Session: Drivers of geographic ranges in a rapidly changing world*. Ecological Society of America 2025 Annual Meeting, Baltimore, MD.
- McNichol^G, B.H. R. Wang, A. Hefner, C. Helzer, S.M. McMahon, S. E. Russo. 2023. Topography-driven microclimate gradients shape forest structure, diversity, and composition at a biome transition zone in Nebraska, *Session: North American boundary forests: diversity, conservation, and fire management*. Society of American Foresters 2024 Meeting, Sacramento, CA.
- Russo, S.E. 2021. Applying the Dynamic Energy Budget Approach to Models of Plant Resource Allocation, *Keynote Speaker*, Seventh Annual International Symposium and Thematic School on Dynamic Energy Budget Models, Virtual.
- Huanca-Nunez^G, N. & S.E. Russo. 2021. Seed rain-successional feedbacks. ATBC 2021: Virtual Meeting of the Association for Tropical Biology and Conservation.
- Russo, S.E. *et al.* 2018. Global patterns in the slow-fast continuum of tropical tree demography: the roles of tolerance and responsiveness, *Symposium 30: Tropical tree life-history strategies: Causes and consequences of demographic diversity*, Association for Tropical Biology and Conservation, Kuching, Malaysia
- Couvreur, V., G. Ledder, D.A. Way, E.B. Muller, S. Manzoni, S.E. Russo 2019. Water transport through tall trees: A vertically explicit, analytical model of xylem hydraulic conductance in stems, *Mini-Symposium: Mathematical models of Plants (Co-organized with G. Ledder)*, Society for Mathematical-Biology, Montreal, Canada.
- Russo, S.E. & S.J. Davies 2018. Introduction to the Symposium: Biodiversity and change: Comparative dynamics of southeast Asian forests, *Symposium 34: Changing environments & changing forests: spatial and temporal variation in the dynamics of Southeast Asian forests (Co-organized with S.J. Davies)*, Association for Tropical Biology and Conservation, Kuching, Malaysia
- Russo, S.E. and K. Kitajima. 2016. Ecophysiology of leaf lifespan in tropical forests: adaptive and plastic responses to environmental heterogeneity, *Organized Oral Session 11*, Association for Tropical Biology and Conservation, Montpellier, France
- Russo, S.E. *et al.* 2015. Demographic variation and tree species richness within tropical forests, *Organized Oral Session 10607: Functional, Phylogenetic and Genetic Dimensions of Forest Diversity and Change*, Ecological Society of America, Baltimore, USA.
- Whitman^G, M and S.E. Russo 2015. Does Rapoport's rule apply to ultramafic flora of Sabah, Borneo? *Symposium 13 – Ecosystem Functions Along Elevation Gradients*. Association for Tropical Biology and Conservation, Hawaii, USA
- Russo, S.E. & Kitajima, K. 2014. A mechanistic dynamic energy budget model to predict tropical tree species distributions, *Organized Oral Session: Trait-based trade-offs in tropical forests (Co-organized with K. Kitajima)*, Association for Tropical Biology and Conservation (ATBC), Cairns, Australia.
- Russo, S.E. *et al.* 2014. A mechanistic dynamic energy budget model to predict tropical tree species distributions, 4th Taiwan-Japan Ecology Workshop, National Dong Hwa University, Taiwan.
- Russo, S.E. *et al.* 2014. A mechanistic dynamic energy budget model to predict tropical tree species distributions, International workshop on carbon cycling in the tropical and subtropical forests, Ryukyu University, Japan.
- Russo, S.E., Heineman^U, K., Tan, S. 2010. Habitat-related variation in standing aboveground biomass in a Bornean rain forest. USGS Powell Center for Analysis and Synthesis Working Group on Tree Biomass Growth, Fort Collins, CO.

- Russo, S.E., Coomes, D.A., Duncan, R. Wiser, S., Barker, R. 2006. Trade-offs between growth and survival rates of New Zealand tree species. British Ecological Society, Oxford, UK.
- Russo, S.E., M.D. Potts, S.J. Davies, S. Tan. 2005. Determinants of tree species distributions: comparing the roles of dispersal, seed size and soil specialization in a Bornean rainforest. Fourth International Symposium/Workshop on Frugivory and Seed Dispersal. Brisbane, Australia.
- Russo, S.E., C.J. Campbell, J.L. Dew, and P.R. Stevenson. 2003. A multi-site comparison of dietary preferences and seed dispersal by spider monkeys (*Ateles spp.*). *Symposium* at the American Association of Physical Anthropologists, Tempe, Arizona, USA.

CONTRIBUTED PRESENTATIONS AT PROFESSIONAL MEETINGS (*Presenter underlined*)

- Piper^G, A., S.E. Russo, S.E., B. Wardlow, J.A. Gamon. 2025. Assessing photoprotective responses of deciduous and evergreen species using leaf spectroscopy. Ecological Society of America annual meeting (oral).
- Hoffart^G, L., and Russo, S.E. 2025. Impacts of encroaching smooth sumac (*Rhus glabra*) on prairie diversity species and environment. Ecological Society of America annual meeting (oral).
- Ordway, E., G. Asner, D. Burslem, S. Davies, S. Lewis, M. Mohamad, N. Reuben, M. O'Brien, P. Oliver, Q. Lan, S. Russo, X. Xu, M. Longo, and P. Moorcroft. 2024. Constraining uncertainty in terrestrial tropical carbon flux dynamics requires capturing local biogeochemical influences on structure and function. European Geosciences Union congress, April. (oral)
- Wang, R., J.A. Gamon, and S.E. Russo. 2024. Previsual detection of tree stress using airborne imaging spectrometry and fluorometry, 8th International Plant Phenotyping Symposium (poster).
- Hoffart^G, L., and S.E. Russo. 2024. Impacts of encroaching smooth sumac (*Rhus glabra*) on herbaceous Sandhills species and environment. Nebraska Natural Legacy Conference, October (oral). ** *Winner of Best Graduate Student Presentation Award*
- Accebron, K.T., L.P. Albert, N. Maquelle. E.J. Garcia, J. Braun, C.D. Southwick, M. Detto, K.F. Huemmrich, P.K.E. Campbell, S.E. Russo, S.J. Wright, K. Anderson-Teixeira, H. Muller-Landau, E. Prikaziuk, C. van der Tol, S.M. McMahon. 2023. Inferring Productivity of Tropical Trees and Forests from Simulated Solar-Induced Chlorophyll Fluorescence (SIF) and Spectral Reflectance under Drought. American Geophysical Union, San Francisco, CA. (poster)
- Russo, S.E., B.H. McNichol^G, R. Wang, L. Hoffart^G, A. Ridder, J.A. Gamon. 2023. North American boundary forests: distribution, drivers, threats, *Session: North American boundary forests: diversity, conservation, and fire management*. Society of American Foresters Annual Meeting (oral)
- Whitman^G, M. and S.E. Russo. 2023. Rhododendron: the genus that plays by a different set of rules. Ecological Society of America Annual Meetings (poster).
- McNichol^G, B., and Russo, S.E. 2022. Characterizing the role of within-species trait variation in the responses of Nebraska's forests to climate change. Nebraska Natural Legacy Conference (oral).
- McNichol^G, B., and S.E. Russo. Importance of intraspecific trait variation at species' range extremes for the responses of semi-arid forests to climate change. Society of American Foresters National Convention, September 2022 (poster).
- Yang^G, Y. G. Peck, and S.E. Russo. Covariation of plant and belowground microbial communities along an edaphic gradient in Nebraska sandhills, Ecological Society of America Annual Meeting, August 2022 (poster)

- Yang^G, Y. G. Peck, and S.E. Russo. Diversity relations of plants with belowground microbiota in a North American grassland: mechanisms and consequences for plant productivity, British Ecological Society Annual Meeting, December 2022 (oral)
- Yang^G, Y. and S.E. Russo. Covariation of root functional traits and community structure in grasslands along a water availability gradient, British Ecological Society - Festival of Ecology, December 2020 (virtual poster)
- Quattrone^G, A. M. Weemstra^P, S. Antony-Babu, K.A. Weber, S.E. Russo. Phylogenetic Effects on the Phenotypic Variation and the Root-associated Microbiome of North American Prairie Grasses, British Ecological Society - Festival of Ecology, December 2020 (virtual poster)
- Huanca-Nunez^G, N, Chazdon, R., Russo, S.E. Seed rain-successional feedbacks. British Ecological Society Annual Meeting, December 14-17, 2020. (virtual poster)
- McNichol^G, B., and Russo, S.E. Environmental gradients drive fine-scale turnover and distributions of woody species in a biogeographically unique plant community. British Ecological Society Meeting, December 2020 (virtual poster)
- Yadav, P., A. Quattrone^G, Y. Yang^G, J. Owens, R. Kiat, T. Kuppasamy^P, S. Moyer, S. Russo, K. A. Weber. Viruses Outnumbered Microbes in Abundance in Rhizosphere of *Zea mays* Genotype B73 and Close Relative *Zea mays* subsp. *parviglumis*. American Geophysical Union (AGU) Fall Meeting, December 2020 (virtual poster).
- Ordway, E., S.J. Davies, S.E. Russo, P. Moorcroft. Parameterizing tropical forest diversity: integrating a terrestrial biosphere model with remotely sensed trait measurements. American Geophysical Union (AGU) Fall Meeting, December, 2020 (virtual oral presentation).
- Ou, Suzanne X. S.E. Russo, S.J. Davies, K. Peay. Mycorrhizal Association Not Soil Specialisation Determines Spatial Aggregation of Tropical Trees, American Geophysical Union (AGU) Fall Meeting, December, 2020 (virtual oral presentation).
- McNichol^G, B., and Russo, S.E. Environmental variables influence local distributions of woody species in a biogeographically unique plant community. Collective Research Organization of Plant Scientists (CROPS) Summer Webinar Series, UNL, August 2020 (virtual oral presentation).
- Quattrone^G, A. M. Weemstra^P, S. Antony-Babu, K.A. Weber, S.E. Russo. Evolution of the holobiont—A phylogenetic test with 18 Nebraskan prairie grass species, American Society for Plant Biology Worldwide Summit, July 2020 (virtual poster)
- Quattrone^G, A. M. Weemstra^P, S. Antony-Babu, K.A. Weber, S.E. Russo. Evolution of the Holobiont in Nebraska prairie grasses, Collective Research Organization of Plant Scientists (CROPS) Summer Webinar Series, UNL, June 30 2020 (virtual oral presentation)
- Quattrone^G, A., P. Miller, P. Yadav, M. Meier, T. Clemente, K.A. Weber, S.E. Russo. Evaluating the Roles of Root Hairs and Soil Microorganisms on the Growth of Maize, American Society for Plant Biology Phenome 2020 -Tucson, AZ, Feb 24-27 2020 (poster)
- Whitman^G, M. & S.E. Russo. 2018. How to play by a different set of rules: functional traits of *Rhododendron* species with a stress-tolerant ecological strategy along tropical elevation gradient, Association for Tropical Biology and Conservation, Kuching, Malaysia
- Whitman^G, M. & S.E. Russo. 2018. *Rhododendron*: the genus that plays by a different set of rules (poster), Gordon Research Conference, Maine.
- Huanca-Nunez^G, N., R. Chazdon, S.E. Russo. 2018. Seed rain variation across Costa Rican forests of different successional ages, Ecological Society of America, New Orleans.
- S.E. Russo & J. Chan^G 2017. Variation in trait plasticity among Bornean tree species with contrasting ecological strategies Association for Tropical Biology and Conservation, Merida, Mexico.

- Whitman^{G, M.} & S.E. Russo. 2017. Functional trait variation of stress-tolerant *Rhododendron* species along elevation gradients; Association for Tropical Biology and Conservation, Merida, Mexico.
- Whitman^{G, M.} & S.E. Russo. 2017. Functional trait variation of stress-tolerant *Rhododendron* species along elevation gradients; Ecological Society of America, Portland, Oregon.
- L. Viridouet^P, Q. Du, C. Zhang, N. Liu, T.J. Avenson, M. Fromm, Z. Avramova, & S.E. Russo, 2017. Dehydration stress memory: Gene co-expression networks linked to the physiological phenome during successive dehydration stresses in *Zea mays*, 2017 Nebraska Research and Innovation Conference on Predictive Crop Design: Genome to Phenome, Lincoln, NE, USA.
- L. Viridouet^P, Q. Du, C. Zhang, N. Liu, T.J. Avenson, M. Fromm, Z. Avramova, & S.E. Russo, 2017. Dehydration stress memory: Gene co-expression networks linked to the physiological phenome during successive dehydration stresses in *Zea mays*, American Society of Plant Biology Phenome 2017, Tucson, AZ, USA.
- Whitman^{G, M.} & S.E. Russo, 2016. Testing Rapoport's rule for species-rich genera of the Malay Archipelago, Unifying Ecology Across Scales Gordon Conference, Maine, USA.
- Whitman^{G, M.} & S.E. Russo, 2015. Testing Rapoport's rule for species-rich genera of the Malay Archipelago, EU Macroecology Conference, Copenhagen, DK.
- Whitman^{G, M.} & S.E. Russo 2015. Does Rapoport's Rule Apply to Ultramafic Flora of Sabah, Borneo? Association for Tropical Biology and Conservation, Hawaii, USA, Symposium 13 – Ecosystem Functions Along Elevation Gradients.
- Whitman^{G, M.} & S.E. Russo, 2014. Testing Rapoport's rule for species-rich genera of the Malay Archipelago, Gordon Research Conference (Unifying Ecology Across Scales), Maine, USA.
- Russo, S.E., A. Kochsiek^P, S. Tan. 2013. Trade-offs in carbohydrate allocation and distributions of Bornean tree species along a soil gradient. Ecological Society of America, Minneapolis, MN.
- Whitman^{G, M.} & S.E. Russo. 2013. Tropical *Rhododendron* diversity and leaf traits along elevation gradients. Ecological Society of America, Minneapolis, MN, USA.
- Russo, S.E., A. Kochsiek^P, S. Tan. 2013. Trade-offs in carbohydrate allocation and the distributions of Bornean tree species along a soil gradient. Association for Tropical Biology and Conservation, San Jose, Costa Rica.
- Russo, S.E., L. Zhang^G, S. Tan, and S.J. Davies. 2011. Duration versus rate of return on investment: the importance of leaf lifespan to tree species distributions on edaphic gradients. Ecological Society of America, Austin, Texas, USA.
- Olney^{U, J.}, A. Kochsiek^P, and S.E. Russo. 2011. Preferential uptake of different nitrogen forms by tree species in mixed dipterocarp forest. (poster presentation) Ecological Society of America, Austin, Texas, USA.
- Roccaforte^{G, K.}, D. Pilson, and S.E. Russo. 2011. Evaluating mechanisms of reproductive isolation between diploid *Erythronium mesochorium* (Liliaceae) and its tetraploid congener, *E. albidum*. (poster presentation) Society for the Study of Evolution, Oklahoma City, Oklahoma, USA.
- Roccaforte^{G, K.}, D. Pilson, and S.E. Russo. 2011. Evaluating mechanisms of reproductive isolation between diploid *Erythronium mesochorium* (Liliaceae) and its tetraploid congener, *E. albidum*. Ecological Society of America, Austin, Texas, USA.
- Koenig^{U, A.}, J. Comes^U, S.E. Russo, G. Ledder. 2010. Effects of Nitrogen Concentration on Leaf Longevity and Senescence of Two Tropical Tree Species. Midwest Ecology and Evolution Conference, Iowa, USA.

- Hemen^U, B., E. Price^U, G. Ledder, S.E. Russo. 2010. A dynamic energy budget model of the determinants of leaf longevity in tropical trees. Midwest Ecology and Evolution Conference, Iowa, USA.
- Russo, S.E., W.L. Cannon^U, C. Elowsky, S. Tan, S.J. Davies. 2009. Variation in leaf stomatal traits of 28 tree species in relation to water-use efficiency along an edaphic gradient in Bornean rain forest. Ecological Society of America, Albuquerque, New Mexico, USA.
- Heineman^U, K., E. Jensen^U, B. Bogenrief^U, A. Shapland^U, S.E. Russo. 2009. The effect of below-ground resources on above-ground allometric relationships in tropical tree species. Ecological Society of America, Albuquerque, New Mexico, USA.
- Heineman^U, K., E. Jensen^U, B. Bogenrief^U, A. Shapland^U, S.E. Russo. 2009. The effect of below-ground resources on above-ground allometric relationships in tropical tree species. Midwest Ecology and Evolution Conference, Lincoln, Nebraska, USA. ***Honorable Mention for Best Undergraduate Talk**
- Russo, S.E., S.J. Davies, S. Tan. 2008. Shifts in leaf functional traits of tropical tree species along an edaphic gradient. Ecological Society of America, Milwaukee, Wisconsin, USA.
- Russo, S.E., D.A. Coomes, R. Duncan, R., S.K. Wiser, and R. Barker. 2007. Trade-offs between tree growth and survival rates along elevation gradients in forests of New Zealand., Ecological Society of America, San Jose, California, USA.
- Russo, S.E., S.J. Davies, D.A. King, S. Tan. 2005. Soil-related performance variation and species' distribution patterns in a Bornean rain forest. Ecological Society of America, Montreal, Canada.
- Russo, S.E., S.J. Davies, D.A. King, S. Tan. 2004. Soil-related performance variation and species' distribution patterns in a Bornean rain forest. Gordon Research Conference on the Metabolic Basis of Ecology, Bates, College, Maine, USA (poster presentation).
- Russo, S.E. and C.K. Augspurger. 2003. Restricted dispersal limits recruitment to clumped patterns in *Virola calophylla*. Annual meeting of the Association for Tropical Biology and Conservation, Aberdeen, Scotland.
- Russo, S.E. and C.K. Augspurger. 2003. Evaluating dispersal limitation of a neotropical tree using a mechanistic model of vertebrate seed dispersal. Annual meeting of the Ecological Society of America, Georgia, USA.
- Russo, S.E. and C.K. Augspurger. 2002. Spatial patterns of seed dispersal by spider monkeys: Implications for understanding seed shadows generated by vertebrate dispersers. Annual meeting of the Association for Tropical Biology, Panama City, Panamá.
- Russo, S.E. and C.K. Augspurger. 2002. Spatial patterns of seed dispersal by spider monkeys: Evaluating disperser effectiveness. Annual meeting of the Ecological Society of America, Arizona, USA.
- Russo, S.E. 2000. Primate dispersal of a classically bird-dispersed fruiting tree: The case of *Virola calophylla* (Myristicaceae) in Perú. 3rd International Symposium-Workshop on Frugivores and Seed Dispersal, Sao Pablo, Brazil.
- Russo, S.E., S.K. Robinson, and J. Terborgh. 1999. Size-abundance relationships in a neotropical bird community. Annual meeting of the American Ornithologists' Union, Ithaca, New York.
- Russo, S.E., W.D. Robinson, J.D. Brawn, and S.K. Robinson. 1998. Distribution and abundance of Neotropical passage migrants along a moisture gradient in Central Panama's lowland forests. North American Ornithological Conference, St. Louis, Missouri, USA.

- Russo, S.E., J.B Mire, M. Gleason, L. Rose, and B. Smith. 1995. An approach for modeling chemical exposure to and effects on high trophic level receptors. Society of Environmental Toxicology and Chemistry Second World Congress, Vancouver, Canada.
- Mire, J.B., M. Gleason, B. Sootkoos, S. E. Russo. 1995. Combined post-remediation monitoring and baseline ecological risk assessment at an environmentally contaminated site. Society of Environmental Toxicology and Chemistry Second World Congress, Vancouver, Canada.

SERVICE AND OUTREACH (* Indicates Current Appointments)

School of Biological Sciences Service

- *Promotion and Tenure Committee (2025-present)
- *Search Committee Chair – Davidson-Fuller Presidential Chair (2024-present)
- *P&T Research Advocate/Mentor – 1 SBS faculty member (2020-present)
- P&T Research Advocate/Mentor – 1 SBS faculty member (2020-2024)
- Member: Curriculum Committee (2023 fall)
- Member: Graduate Committee (2022 spring)
- Member: Search Committee – Integrative Disease Biologist (2021-2022)
- Member: SBS representative for Greenhouse Committee (2019-2022)
- Chair: Greenhouse Committee (2020-2021)
- Member: Research and Seminar Committee (2019-2020)
- Member: Graduate Committee (2018-2020)
- Member: Search Committee, Director of SBS (2015-2016 & 2016-2017)
- Member: Search Committee, Root Biologist in Department of Agronomy and Horticulture (2017)
- Executive Committee (2013 – 2014, 2015-2017)
- Ecology, Evolution, Behavior Section Chair (2016-2017)
- Ecology, Evolution, Behavior Section Vice Chair (2015-2016)
- Judge: BGSA Symposium talks and/or posters (2007, 2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019)
- Mentoring Task Force (2012 – 2013)
- Member: Web Page Task Force (Spring 2011 – 2012)
- Chair (2009 – 2012) & Member (Fall 2008): Special Funds and Awards Committee
- Member: SBS Curriculum Committee (Fall 2009 – Fall 2011)
- Co-organizer of Math-Biology seminar series (Spring & Fall 2009)
- Member: POE Postdoctoral Fellowship Search Committee (Spring 2008, 2012, 2013)
- Member: Plant Organismal Biologist Search Committee (Fall 2008)

Center for Plant Science Innovation

- *Member: PSI Integrative Plant Biology Graduate Recruitment Committee (2025-present)
- Member: PSI Visibility Committee (2023-2025)
- Member: PSI Integrative Plant Biology Graduate Recruitment Committee (2023-2024)
- Chair: PSI Integrative Plant Biology Graduate Recruitment Committee (2020-2022)
- Member: PSI Academic Program Review Committee: Diversity (2021)
- Member: PSI Academic Program Review Committee: Mentorship (2021)
- Member: CROPS Travel Award selection committee (2020)
- Member: Center for Plant Science Innovation Retreat Organizing Committee (Fall 2016, 2018)

College of Arts and Sciences Service

- Member: Promotion & Tenure Committee (2021 – 2024)
- Member: Executive Committee (2019 – 2021)

Member: Research Advisory Committee (2016 – 2018)

Member: Committee on Student Academic Distinction, Awards and Appeals (2012 – 2014)

University Service

*Member: Nebraska Earth Observatory Scientific Advisory Committee (2021-present)

*Plant Biology Major Steering Committee (2016-present)

*Fellow: Center for Great Plains Studies (2019-present)

*UCARE, ORI proposal reviewer (ongoing)

Member: Academic Planning Committee (2024-2025)

Member: Search Committee – CALMIT Flight Planning Coordinator (2022 spring)

Organization for Tropical Studies representative for UNL (2012 – 2020)

Member: Edgerton Award Selection Committee (2020)

Environmental Studies Faculty Fellow (Spring 2011-2020)

Member: UNL Center for Grassland Studies Advisory Committee (2010 – 2020)

Member: Academic Rights and Responsibilities Committee (2017-2019)

Member: Academic Rights and Responsibilities Special Grievance Committee (2017-2018)

Panelist: Annual Women in Science Conference (2015, 2016)

Member: UNL Fulbright Fellowships Committee (2010 – 2015)

Instructor: NE Upward Bound (Summer 2010, 2011)

Reviewer: UNL Office of Research and Research Council Grant Proposals (Spring 2010, 2011)

Professional Service

*Editorial Board Member, *Functional Ecology* (British Ecological Society Journals) (2014 – present)

Chair of ATBC Grants and Awards Committee (2025)

Editorial Board Member, *Biotropica* (2016 – 2021)

Council Member of Association for Tropical Biology & Conservation (ATBC) (elected; 2018 – 2021)

Member of ATBC Grants and Awards Committee (2020)

NSF Site Visit Team Member for review of EPSCoR Track I grant (Center for Root and Rhizobiome Innovation, 2018)

Organization for Tropical Studies Board of Directors: Member at Large (elected; 2014 – 2019)

Organization for Tropical Studies Alternatives Committee Member (2015 – 2017)

Organization for Tropical Studies Alternatives Survey Committee Member (2016 – 2017)

Grant Proposal Reviews:

Review Panel: USDA-SARE Graduate Student Grants Program (2025)

Ad-hoc Reviewer for NSF Evolutionary Processes Cluster (2022)

Ad-hoc Reviewer for NSF Population and Community Ecology Cluster (2009, 2010, 2011, 2012, 2014, 2015, 2020, 2023, 2025)

Ad-hoc Reviewer for Singapore Nanyang Technological University Tier 1 Grant (2016)

Review Panel: Smithsonian ForestGEO Small Grants Program (2016)

Ad-hoc Reviewer for NSF IOS Plant Genome Research (2013)

NSF Population and Community Ecological Cluster Panel (2025, 2010, 2013)

NSF Doctoral Dissertation Improvement Grant, Ecological Biology Panel (2009)

External Reviewer for Promotion and/or Tenure Review (1 in each of 2013, 2016, 2018, 2021, 2022; 3 in 2025)

External Examiner for PhD Thesis (Macquarie University, Australia; Advisor Ian Wright, 2013; University of Alberta, Canada; Advisor Scott E Nielsen, 2025)

Judge: Graduate Student Oral Presentations, Ecological Society of America and Association for Tropical Biology and Conservation meetings (2013, 2017, 2018); Midwest Ecology and Evolution Meeting (2009)

Presenter: Nebraska Citizens for Science (2008)

Guest-editor, *Tropical Conservation Science*: Special Issue on Myristicaceae (2011 – 2013)

Journal Reviewer: *American Journal of Botany*, *The American Naturalist*, *Behavioral Ecology*, *Biotropica*, *Ecology*, *Ecology Letters*, *Evolutionary Ecology*, *Forest Ecology and Management*, *Functional Ecology*, *Global Change Biology*, *Journal of Biogeography*, *Journal of Ecology*, *Journal of Experimental Botany*, *Journal of Plant Research*, *Journal of Tropical Ecology*, *Journal of Tropical Forest Science*, *Journal of Vegetation Science*, *New Phytologist*, *Oecologia*, *Oikos*, *Plant Biology*, *Plant Cell and Environment*, *Plant Ecology*, *Plant Ecology & Diversity*, *Proceedings of the National Academy of Sciences*, *Proceedings of the Royal Society*, *PLoS ONE*, *Scientific Reports (Nature)*, *Tree Physiology*

Textbook reviewer: *Community Ecology*, G. Mittelbach (Sinauer) (three chapters)

Textbook proposal reviewer: *Community Ecology* (Jones & Bartlett Learning)

Membership in Professional Organizations: *American Botanical Society*, *Association for Tropical Biology and Conservation*, *Ecological Society of America*, *Organization for Tropical Studies*, *Sigma Xi*

Co-organized and Invited National and International Working Groups

- 2013-2023 Demography Group leader and mentor at Smithsonian ForestGEO International Analytical Workshops. 2013: Smithsonian Conservation Biology Institute, VA, USA; 2014: Xishuangbanna Tropical Botanical Garden, China; 2015: Smithsonian Tropical Research Institute, Panama; 2016: Hainan Island, China; 2017: Luquillo LTER Plot, Puerto Rico; 2018: Czech Republic; 2019: Singapore; 2023: Panama.
- 2017 Math-Biology Program Workshop: Co-organizer with G. Ledder (UNL, Dept. of Mathematics): Model of Tree Hydraulics at UNL for 5 participants, March 2017.
- 2014-2016 NSF-NIMBioS: Co-organizer of 3 working group meetings with G. Ledder (UNL, Dept. of Mathematics) and R. Nisbet (UCSB) (October 2014, June 2015, May 2016) at the NSF National Institute for Mathematical and Biological Synthesis Working Group, “A Mechanistic Dynamic Energy Budget Model of Tree Performance to Predict Functional Trait Drivers, Species Distributions, and Responses to Global Change” (University of Tennessee, USA).
- 2014 Math-Biology Program Workshop: Co-organizer of UNL Math-Biology Program Workshop with G. Ledder (UNL, Dept. of Mathematics) (January 2014), “A Mechanistic Dynamic Energy Budget Model of Tree Performance to Predict Functional Trait Drivers, Species Distributions, and Responses to Global Change” (University of Nebraska, USA).
- 2010-2011 USGS Powell Center for Analysis and Synthesis: Characterizing a link in the terrestrial carbon cycle: A global overview of individual tree mass growth. (30 August – 1 September 2010 and 29 May – 1 June 2011)
- 2006-2007 Plant Population Dynamics along Physical-geography Gradients, Australian Research Council and Landcare Research, New Zealand
- 2005-2006 U.K. Population Biology Network Growth-survival Models Working Group

Outreach

East Campus Discovery Days (2025)

Lincoln Public Schools Science Focus Program (2024)

Nebraska Forest Service Forest Festival – 2021, 2022, 2023

Presenter, Spark Summer Camps, Foundation for Lincoln Public Schools (2023)

Upward Bound Math Science Summer Research Mentor (2022)

Nebraska Forest Service 2021 Forest Festival virtual outreach – 20-minute field virtual tour of Indian Cave State Park trees (182 views) (S. Russo & B. McNichol) <https://youtu.be/95a8uPGAM8k>
 EPSCoR Young Nebraska Scientists High School Student Research Mentor (2017, 2018, 2020)
 Spirit of Nebraska Girl Scout Troup – led group meeting to earn the Flower Badge (2020)
 Undergraduate Research at the Capitol (2018)
 Presenter at Science Connector: Lincoln Public Schools & Nebraska State Museum (Summer 2017)
 Plant Biology Major Recruiting Event (Jan 2017)
 Education Outreach: Conservation Awareness Interactive Discovery Centre at Lambir Hills National Park, Ford Motor Company Conservation Grant (with PI Januarie Kulis, Park Warden, Lambir NP, Sarawak, Malaysia, 2015)
 Presentation on Tropical Diversity and Careers in Ecology (Lincoln Public Schools, Spring 2014)
 Co-organizer & Presenter: Sunday with a Scientist at Nebraska State Museum: “The Fascinating World of Fruit”, with Dr. Stacey Smith (Fall 2011)
 Co-organizer & Presenter: Apple Jack Festival and the UNL Kimmel Education and Research Center: “Be Fruity”, with Dr. Stacey Smith (Fall 2012)

TEACHING & INSTRUCTION

Plants in Human Medicine, BIOS 368 (Fall 2018-2021, 2023-2025)
 Ecological Interactions, BIOS 454/854 (ACE-10) (Spring 2012, 2013, 2016; Fall 2016-2021, 2023-2025)
 Participation in UNL Writing Center Writing Fellows Program (2018-present)
 Biology of Plants, BIOS 317 with lab (Fall 2016)
 Statistical Workshop using R software, Kyoto University (Fall 2014)
 Principles of Ecology, BIOS 805 (Spring 2014)
 Introductory Botany, BIOS 109 (Fall 2008, 2009, 2010, 2011, 2012, 2013)
 Advanced Community Ecology, BIOS 959 (Spring 2008, 2010)
 Research for Undergraduates in Theoretical Biology, BIOS 316 (Spring, Summer, Fall 2008 & 2009; Summers of 2008 & 2009 were a field research course in Borneo)

TRAINING ON INSTRUCTION AND DIVERSITY, EQUITY, AND INCLUSION

Participant in FABUS Scientific Teaching Workshop (Couch Lab, SBS) (1 day, Spring 2018)
 Biology Teaching Circle Journal Club (Couch Lab; 2017-2018)
 Participated in FABUS Scientific Teaching Data Collection (Couch Lab, SBS) (Fall 2017)
 Participated in COPUS and Scientific Teaching Observation Study (Couch Lab, SBS) (Spring 2016)
 Faculty Learning Community (Couch & Brassil Labs, SBS) (Spring 2016)
 ARISE Scientific Teaching Workshop (Marylin Staines, Chemistry) (Spring, 2015)

MENTORSHIP

Postdoctoral Fellows & Visiting Scholars

Samatha Worthy	Drivers of demographic variation across tree species ranges (2024 - 2025)
Thirumurugan Kuppusamy	Plant microbial interactions in agricultural systems (2019-2020)
Monique Weemstra	Plant-microbe feedbacks (2017-2018) [faculty – Wageningen University]
Caicai Zhang	Growth-survival trade-offs, Visiting PhD Scholar, Chinese Academy of Sciences (Nov 2016-Nov 2017) [Faculty: Dali U., China]

Bin Yue	Competition-colonization trade-off, Visiting PhD Scholar, Chinese Academy of Sciences (Nov 2016) [Faculty – Chinese Academy of Sciences]
Jin Yi	Coexistence between evergreen and deciduous tree species, Visiting Postdoctoral Fellow–Zhejiang University, China (Aug 2016-Jan 2017) [Postdoctoral fellow – Zhejiang U., China]
Laetitia Virilouvet	Water stress memory physiology in corn (co-supervised with M. Fromm and Z. Avramova; 2012-2014) [R&D researcher at UV Boosting Co., France]
Noelle Beckman	Neighborhood competition of trees in relation to soil resources (UNL Program of Excellence Fellow, 2010 –2012) [Faculty: Utah State U.]
Amy Kochsiek	Trade-offs in allocation to growth, defense, and storage among Bornean tree species (Jan 2010 – Dec 2011) [Faculty: Gustavus-Adolphus College]

Graduate Thesis Advisees

Ruiqi Zhang	Tree-fungal-bacterial interaction networks (PhD, 2025 -)
Alma Talcott	Effects of prescribed fire on tree survival (MSc, 2025 -)
Hannah Dialling	Hydrological effects on trees (MSc, 2025 -)
Lillian Hoffart	Biodiversity and change in boundary forests at the forest-grassland transition zone (PhD, 2022-present)
Tithira Lakkana	Remote sensing of forest biodiversity (PhD, 2022-present; coadvised with John Gamon, SNR)
Alec Piper	Early warning signals of forest stress (MSc, 2024; PhD 2024-present; coadvised with John Gamon, SNR)
Bailey McNichol	Biodiversity and change in Nebraskan forests (PhD, 2019-2023)
Yuguo Yang*	Plant-microbe interactions (PhD, 2018-2023) * British Ecological Society 2024 Haldane Prize Early Career Researcher Award
Amanda Quattrone	Plant-microbe interactions (PhD, Complex Biosystems, 2018-2023)
Nohemi Huanca Nunez	Regeneration in tropical secondary forests, Fulbright Fellow (MSc 2014-2017; PhD, 2017-2022)
Melissa Whitman	Patterns of diversity along elevation gradients, NSF Graduate Research Fellow (PhD, graduated 2018)
JuPing Chan	Trait plasticity of Bornean tree species (MSc, graduated Dec 2016) [IT Consultant, Malaysia]
Kathy Roccaforte	Mechanisms of reproductive isolation in plants, M.Sc., Co-advised with D. Pilson (graduated May 2012) [PhD – U. Kansas]

Graduate Committee Membership

Tristan Murphy	Prairie diversity effects on lekking birds (SBS, Chad Brassil, PhD)
Alyssa Olson	Biology education (SBS, B. Couch, PhD)
Kianie David	Fever tree regeneration (SNR, L. Ameyaw, MSc)
Xin Zhi Khoo	Plant-fungal interactions (Plant Pathology: T. Garcia-Aroca, MSc)
Catherine Chan	Remote sensing of grassland diversity (SNR: J. Gamon, PhD)

Francis Biagioli	Indirect interactions (SBS: J. DeLong, PhD)
John Mensah	Senescence and climate sensitivity in plants (SBS: B. Tenhumberg, PhD)
Alexandra Shupinski	Paleomammal diversity (SBS: S. Lyons, PhD)
David Nguyen	Host-parasite interactions (SBS: Clay Cressler, PhD)
George Wheeler	Coexistence among prairie grass species (SBS: Jean Knops, PhD)
Laura VanderMeiden	Avian mixed species flocks (SBS: Dai Shizuka, PhD, 2023)
Mohizah Mohammad	Community change in a Bornean forest (Universiti Malaysia – Kuching (UNIMAS); Tawan Checksum, PhD)
Gabriela Palomo	Coexistence of carnivores and humans (SNR: Drew Tyre, PhD, fall 2021)
Elizabeth Chambers	Plant demography in thistles (SBS: Tenhumberg, MSc, left program in 2020)
Maria Goller	Song learning and mimicry in starlings (SBS: Dai Shizuka, PhD, spring 2020)
Daniel Zuleta	Diversity of Columbian tropical forests (Universidad Nacional de Colombia, Alvaro Duque, PhD, summer 2019)
Max Segnitz	Plant-soil feedbacks in Bornean trees (Stanford, K. Peay, PhD, spring 2019)
Nadejda Mirochnitchenko	Nebraskan bird communities (SNR: TJ Fontaine, MSc, 2018)
Anna Tatarko	Plant species traits and abundance (SBS: J. Knops, MSc, spring 2017)
Kyle Funk	Demographic trade-offs in California oaks (SBS, J. Knops, Ph.D., spring 2016)
Dan Gates	Hybrid origins of species in <i>Iochroma</i> (Diana Pilson, Ph.D.; Dec 2016)
Bethany Teeters	Prairie pollinator diversity and services (SNR, C. Allen, Ph.D., spring 2019)
Dakota Ahrendsen	Phylogenetic diversity of prairie plants (UNO, R. Kellar, M.Sc., spring 2014)
Ben Nolting	Temporal variability and trophic interactions (SBS, C. Brassil, Ph.D., fall 2013)
Mario Pesendorfer	Influence of island scrub jay's caching behavior on seed dispersal of oaks (SBS, A. Kamil, Ph.D., Spring 2014)
Ramesh Laugani	Plant species impacts on nitrogen cycling in grassland ecosystems (SBS, J. Knops; Ph.D., Spring 2010)
T.J. Bliss	Nematode community structure in relation to plant diversity (SBS, C. Brassil, T. Powers, M.Sc., Spring 2010)
Michael Mellon	Tri-trophic interactions among spiders, herbivores, and thistles (SBS, S. Louda; M.Sc., Fall 2009)

Undergraduate Thesis/UCARE/FYRE/NSF REU Advisees

Toby Griesbrecht	Plant Biology major intern (2024)
Iris Bumgarner	UCARE (2024)
Megan Yarborough	FYRE research advisee (2023)
Clementine Ewomsan	UBMS - FYRE research advisee (2022-2023)
Abbie Ridder	Environmental Studies Thesis Advisee (2021-2023), UCARE: Effects of redcedar on seedling diversity in a Nebraska forest, Cabela's Scholar
Brittni McGuire	UCARE: Seedlings: the future of the forest (2021; Cabela's Scholar, Thesis for Distinction)
Fiona Walker	FYRE research advisee (2021-2022)
Amy Dang	FYRE research advisee (2021-2022)
Collin Eaton	Internship for Plant Biology Major (2020)
Baylie Fadool	Top-down regulation of marine communities by sharks; Environmental Studies Thesis Advisee (Fall -Spring 2020)

Susana Moyer	UCARE: Biodiversity on an elevation gradient in a Nebraskan forest (2019)
Hamilton Hasty	UCARE: Plant-microbial interactions in grasses (2017-2018)
Willem Roper	UCARE: Plant-microbial interactions in grasses (2017-2018; SBS Undergraduate Research Fair 2019)
Amanda Gangwish	Top-down control marine food webs; Environmental Studies Thesis Advisee (Spring -Fall 2016)
Rachel Pahlke	UCARE Student: Variation in foliar protein (Summer 2013)
Lauren Thompson	NSF REU and UCARE Student: Functional traits of canopy leaves of Bornean tree species; Undergraduate Thesis for Distinction (Summer 2011-Spring 2012; graduated Spring 2012)
Jocelyn Olney	NSF REU and UCARE Student: Nitrogen-form preference of Bornean tree species; Undergraduate Thesis for Distinction (Fall 2009-Spring 2012; graduated Spring 2012; NSF Graduate Research Fellowship awarded in 2012)
Katherine Heineman	UCARE Student: Tree crown and height growth allometries of Bornean species; Undergraduate Thesis for Distinction (2009- 2010; graduated Spring 2010; NSF Graduate Research Fellowship awarded in 2010)
Taylor Sloey	UCARE Student: Distribution of Dioecious Eastern Red Cedar (<i>Juniperus virginiana</i>) along an Environmental Gradient in Ogallala, NE; Environmental Studies Thesis (Co-advisor with D. Pilson; graduated Spring 2010; PhD student at Louisiana State Univ.)
Deidra Jacobsen	Herbivory on Platte Thistle: Honors Thesis in Environmental Studies and Thesis for Distinction (Environmental Studies Thesis; Co-advisor with Svata Louda; graduated Spring 2009)
Whitney L. Cannon	Variation in leaf stomatal traits in relation to water use efficiency among Bornean tree species: Honors Thesis in Environmental Studies & Thesis for Distinction (graduated Fall 2008)
Jake Arneson	UCARE: Sex ratio and gender allocation in red cedar (Co-advisor with Advisor J. Knops, Summer 2009-Fall 2010)

Undergraduate and High School Student Research Advisees

Elise Weisser	LPS Science Focus Program High School intern (2024)
Alexx Uecker	Peru State College – Biology intern (2022)
Flora Sangwa Gwaneza	CUSP: plant root-microbial interactions (2021-2022)
Prince Ngiruwonsanga	CUSP: plant root-microbial interactions (2021)
Ryan Eastman	Plant-soil feedback in agroecosystems (2021)
Alexus Hanson	Plant-soil feedback in agroecosystems (2021)
Carly Trebac	Plant-soil feedback in agroecosystems (2019-2021)
Susana Moyer	Plant-microbial interactions in agroecosystems (2019-2021)
Sheridan Wilson	Young Nebraska Scientists High School Researcher: Grassland diversity on a sand hills dune gradient (2020)
Justin Ho	Plant-microbe interactions in sandhills (2020)
Jia Yue Sum	Plant-microbe interactions in sandhills (2020)
Jia Yin Sum	Plant-microbe interactions in sandhills (2020)
Allison Shelbourn	Plant-soil feedback in agroecosystems (2019-2021)

Payton Knutzen-Young	Plant-soil feedback in agroecosystems (2019-2021)
Salan Preet Kuar	Plant-microbial interactions in agroecosystems (2019)
Henry Ngo	Plant-microbial interactions in agroecosystems (2019)
Jonathan Wang	Plant-microbial interactions in agroecosystems (2019)
Trang Huang	Plant-microbial interactions in agroecosystems (2019)
Ashley Newman	Plant-microbial interactions in agroecosystems (2018-2019)
Porsche Miller	Young Nebraska Scientists High School Researcher: Plant-microbial interactions in maize (Summer 2018)
Alexa Davis	Plant-microbial interactions in grasses (2017-2018)
Sakia Fields	Plant-microbial interactions in grasses (2017-2018); Niobrara forest ecology (Summer 2018)
Jennifer Foster	Niobrara forest ecology (Summer 2018)
Nicole Fintel	Young Nebraska Scientists High School Researcher: Plant-microbial interactions in wild grasses (Summer 2017)
Joseph Eastman	Plant-soil-microbe feedbacks (Spring 2017)
Samuel Johnson	Plant-soil-microbe feedbacks (Spring 2017)
Itahi Sanchez	Plant-pathogen interactions in Bornean trees (Summer 2014)
Aimee Koenig	Leaf longevity of two Bornean tree species (Spring 2009-2011)
Jenna Jo Comes	Interspecific variation in leaf functional traits (Spring -Fall 2009)
Taylor Sloey	Leaf venation of Bornean tree species (Spring 2009)
Jeffrey Jensen	Leaf venation of Bornean tree species (Spring 2009)

Post-graduate Field & Research Assistants (since 2013)

Racheal Patterson, Emma Mongar, Carolyn Phillips, Tadhg Siepman, Joel Rathe, John Brennan, Teagan Stanstead, Anna Steinhausen, Makayla Demmon, Madeline Balog, Matthew Kane, Emma Decker, Jamie Fuqua, Cooper Steffen, Jack Luth, Ashley Newman, Patrick Wilson, Townson Lemansky, Collin Eaton, Sage Fletcher, Drew Granville, Gabriel Ortiz, Cooper Krueger, Lucille Hoffart, Cameron Lyons, Matthew Kane, Tadhg Siepman, Emma Mongar, Madeline Balog, John Brennan, Anna Steinhausen, Carolyn Phillips, Teagan Sandstedt, Makayla Demmon, Joel Rathe, Rachel Patterson

Graduate & Undergraduate Advisees – Research Grants & Awards (non-SBS Special Funds)

Lillian Hoffart	2024 TNC Weaver Fund (\$5,000) 2023 USDA-SARE (\$15,000) 2023 Earth Cube Travel Fellowship (\$450)
Yuguo Yang	2022 UNL Graduate student travel award (\$500) 2022 Dr. John F. Davidson prize for work in Botany or Plant Systems, UNL (\$1500)
Bailey McNichol	2023 Dr. John F. Davidson prize for work in Botany or Plant Systems, UNL (\$1500) 2022 UNL Dean's Fellowship (\$5000) 2022 Sigma Xi Research Grant (\$500) 2021 Best Student Presentation Award, Nebraska Natural Legacy Conference 2021 Kenneth C. Stout Outstanding Graduate Teaching Assistant Award

	2021 2nd Place Poster Presentation, Biology Graduate Student Symposium, UNL
	2021 Heuermann Plant Science Fellowship, UNL
	2021 American Philosophical Society Lewis & Clark Grant (\$5000)
	2020 Center for Great Plains Studies (\$750)
	2020 Botanical Society of America (\$5000)
	2019 Nebraska Native Plant Society (\$800)
Nohemi Huanca Nunez	2021 Dr. John F. Davidson Prize for Outstanding Work in Botany or Plant Systems, School of Biological Sciences, UNL (\$1500)
	2021 Alwyn Gentry Prize for Outstanding Student Oral Presentation at ATBC meeting
	Sigma Xi Grant-in-Aid of Research (\$820; 2018)
	OTS Fellowship (The Christiane & Christopher Tyson Fellowship and The F. Christian & Betty Thompson Fellowship (\$4,550; 2016)
JuPing Chan	University of Nebraska Chancellor's Fellowship (\$4,000 per year; 2012-2013)
Melissa Whitman	NSF Graduate Research Fellowship (\$98,000; 2011-2014)
	American Rhododendron Society (\$5,000, 2013-2014)
Kathy Roccaforte	University of Nebraska Chancellor's Fellowship (\$4,000 per year; 2009-2011)
	University of Nebraska Arthur William Sampson Fellowship: (\$20,400 plus tuition reimbursement; 2010-2011)
	University of Nebraska Center for Great Plains Studies Research Grant in Aid (\$350)
	NSF Graduate Research Fellowship Honorable Mention (2010)
Jocelyn Olney	NSF Graduate Research Fellowship (awarded in 2011)
	Sigma Xi Grant-in-Aid of Undergraduate Research (\$700; 2010)
	“Spotlight on the Student” (Fall 2011)
Katherine Heineman	NSF Graduate Research Fellowship (awarded in 2010)
	Sigma Xi Grant-in-Aid of Undergraduate Research (\$700; 2009)
	RUTE Extended Research Award (\$200; Spring 2009)
	Upperclass Fellowship (\$2000; Spring 2009),
	“Spotlight on the Student” (Fall 2009)
Taylor Sloey	Cedar Point Biological Station Undergraduate Research Award (2009)
Jake Arneson	Cedar Point Biological Station Undergraduate Research Award (2009)