

SABRINA E. RUSSO

School of Biological Sciences
University of Nebraska, Lincoln
Lincoln, Nebraska 68588-0118 USA

Tel. 1 (402) 472-8387
Email: srusso2@unl.edu
<http://russolab.unl.edu/>

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).

Specialized Training

- 2006 Uncertainty and Variability in Ecological Inference: An Introduction to Modern Statistical Computation, Duke University, North Carolina
2005 Likelihood Methods in Forest Ecology, Institute of Ecosystem Studies, New York
2002 Applied Phylogenetics Workshop, University of California at Davis

RESEARCH INTERESTS

- Population and community ecology, particularly of plants and tropical trees
- Plant life-history, functional, and ecophysiological trait variation
- Models of seed dispersal and its consequences for plant populations and communities
- Incorporating phylogeny and evolutionary history in ecological studies

POSITIONS HELD

- 2013-present 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

- 2014 Short-term Fellowship, Japan Society for Promotion of Science (180,000 yen award)
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

In Review

Russo, S.E. and K. Kitajima. 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*.

Heineman, 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. Influence of tree size, taxonomy, and edaphic conditions on heart rot in mixed-dipterocarp Bornean rainforests: implications for aboveground biomass estimates. **Biogeosciences**.

2015

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**. **First two authors contributed equally*.

Roccaforte, K., D. Pilson, S.E. **Russo**. 2015. Hybridization and reproductive isolation between diploid *Erythronium mesochoreum* and its tetraploid congener *E. albidum* (Liliaceae). **Evolution**, in press.

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**, in press.

2014

Stephenson, N., A. Das, R. Condit, S.E. **Russo**, P. Becker, D.A. Coomes, *et al.* 2014. Rate of tree carbon accumulation increases continuously with tree size. **Nature** 507:90-93.

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(22):1-13.

2013

Russo, S.E., A. Kochsiek, *J. Olney, *L. Thompson, A.E. Miller, and S. Tan. 2013. Nitrogen uptake strategies of edaphically specialized Bornean tree species. **Plant Ecology** 214:1405–1416.

Kochsiek, S. Tan, and S.E. **Russo**. 2013. Fine root dynamics in relation to nutrients in oligotrophic Bornean forest soils. **Plant Ecology** 214: 869-882.

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.

2007-2012

Russo, S.E., R. Legge, 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.

- Russo**, S.E., L. Zhang, and S. Tan. 2012. Covariation between understory light environments and soil resources in Bornean mixed dipterocarp rain forest. **Journal of Tropical Ecology** 28:33–44.
- *Heineman, K., *E. Jensen, *B. Bogenrief, *A. Shapland, 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.
- Russo**, S.E., *W.L. Cannon, 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.
- Russo**, S.E., K. Jenkins, S. Wisser, D.A. Coomes. 2010. Relationships between wood traits and growth and mortality rates of New Zealand tree species. **Functional Ecology** 24: 253–262.
- Russo**, S.E. and C.A. Chapman. 2010. Primate seed dispersal: Consequences of behavior on 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.
- Russo**, 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.
- Russo**, S.E., S.W. Wisser, 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.
- Russo**, 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.
- 2006 and earlier**
- Russo**, 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.
- 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.
- 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.

- 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.
- Russo**, 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.
- Russo**, S.E. 2005. Linking seed fate to dispersal patterns: identifying factors affecting predation and scatter-hoarding of seeds of *Viola calophylla* in Peru. **Journal of Tropical Ecology** 21:243-253.
- Russo**, 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.
- 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.
- Fehmi, J.S., S.E. **Russo**, and J.W. Bartolome. 2005. The effects of livestock on California ground squirrels (*Spermophilus beecheyii*). **Rangeland Ecology and Management** 58:352-359.
- Russo**, S.E. and C.K. Augspurger. 2004. Aggregated seed dispersal by spider monkeys limits recruitment to clumped patterns in *Viola calophylla*. **Ecology Letters** 7:1058-1067.
- Russo**, 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.
- Russo**, S.E. 2003. Responses of dispersal agents to tree and fruit traits in *Viola calophylla* (Myristicaceae): Implications for selection. **Oecologia** 136:80-87.
- 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.
- 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.

RESEARCH GRANTS

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; pays all travel expenses of participants).

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 and Community Ecology Cluster (\$127,847; 1 Nov 13 – 30 Oct 2015)

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; 1 July 2011 – 30 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. Pilon. "Mechanisms of reproductive isolation between *Erythronium mesochoreum* and *E. albidum* (Liliaceae)" UNL Faculty Grant-In-Aid of Research (\$9,988; 1 January 2010 – 31 December 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

Russo, S.E. "Is there a functional basis for edaphically-associated floristic variation in a Bornean rain forest?" 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 SEMINARS

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

2007 – 2012

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, School of Biological Sciences, 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 (Department of Plant Biology), University of Illinois, Urbana-Champaign (2008)
Department of Biology, University of Miami, Miami (2008)
Ecology, Evolution, and Behavior Seminar, School of Biological Sciences, 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)

2006 and earlier

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)

ORGANIZED SESSIONS AND PRESENTATIONS AT NATIONAL AND INTERNATIONAL MEETINGS

* UNL undergraduate

Organized Oral Sessions and Invited Presentations

- 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 semi-open workshop on carbon cycling in the tropical and subtropical forests, Ryukyu University, Japan.
- Russo, S.E. & Kitajima, K. 2014. Organized Oral Session: Trait-based trade-offs in tropical forests, 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. In Organized Oral Session: ATBC, Cairns, Australia.
- Russo, S.E. 2014. Natural selection on resource allocation strategies of tropical trees. CTFS-SIGEO Workshop, Xishuangbanna Tropical Botanical Garden, China.
- Russo, S.E. 2013. What can the relationship between mortality and growth tell us about the life histories of tree species? CTFS-SIGEO Workshop, Smithsonian Institution, Front Royal, VA, USA.
- Russo, S.E., Heineman, 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

- Russo, S.E., A. Kochsiek, S. Tan. 2013. Trade-offs in carbohydrate allocation and the distributions of Bornean tree species along a soil gradient. Ecological Society of America, Minneapolis, MN.
- Whitman, M. and S.E. Russo. Tropical *Rhododendron* diversity and leaf traits along elevation gradients. Ecological Society of America, Minneapolis, MN, USA.
- Russo, S.E., A. Kochsiek, 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, 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, J., A. Kochsiek, 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, 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, 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.
- *A. Koenig, *J. Comes, 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, B., *E. Price, 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, 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, K., *E. Jensen, *B. Bogenrief, *A. Shapland, 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, K., *E. Jensen, *B. Bogenrief, *A. Shapland, 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. ***Won 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, USA.
- 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.

PROFESSIONAL SERVICE AND OUTREACH

School of Biological Sciences Service

Executive Committee (2013 – 2014)

Mentoring Task Force (2012 – 2013)

Member: Web Page Task Force (Spring 2011 – 2012)

Chair (2009 – 2012) & Member (Fall 2008 – 2012): Special Funds and Awards Committee

Member: SBS Curriculum Committee (Fall 2009 – Fall 2011)

Co-organizer of Math-Biology seminar series (Spring & Fall 2009)

Judge: BGSA Symposium talks and/or posters (2007, 2011, 2013, 2014)

Member: POE Postdoctoral Fellowship Search Committee (Spring 2008, 2012, 2013)

Member: Plant Organismal Biologist Search Committee (Fall 2008; hire of Stacey Smith)

College of Arts and Sciences Service

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

University Service & Outreach

Presentation on Tropical Diversity and Careers in Ecology (Lincoln Public Schools, Marcela Cantarero, Spring 2014)

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

Board of Visitors of OTS: Member at Large (elected; 2014 – present)

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

Member: UNL Fulbright Fellowships Committee (2010 – present)

Instructor: NE Upward Bound (Summer 2010, 2011)
Environmental Studies Faculty Fellow (Spring 2011-present)
Reviewer: UNL Office of Research and Research Council Grant Proposals (Spring 2010, 2011)
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)

Professional Service

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

Grant Proposal Review Panels:

NSF Population and Community Ecological Cluster (Spring 2010 & 2013)

NSF Doctoral Dissertation Improvement Grant, Ecological Biology Cluster (Spring 2009),

Ad-hoc Reviewer for NSF Population and Community Ecology Cluster (Fall 2009, 2010, 2011, 2012)

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

External Examiner for Promotion Review (1 review in 2013)

External Examiner for PhD Thesis (Macquarie University, Australia; Advisor Ian Wright, 2013)

Judge: Graduate Student Talks, Midwest Ecology and Evolution Meeting at UNL (Spring 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 Tropical Ecology*, *Journal of Tropical Forest Science*, *Journal of Vegetation Science*, *New Phytologist*, *Oecologia*, *Oikos*, *Plant Biology*, *Plant Cell and Environment*, *Proceedings of the National Academy of Sciences*, *Proceedings of the Royal Society*, *PLoS ONE*, *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 Working Groups

2014-2015 National Institute for Mathematical and Biological Synthesis Working Group (Co-organizer), "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, October 2014).

UNL Math-Biology Program (Co-organizer), "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, January 2014).

2013-2014 CTFS-SIGEO Analytical Workshop (Group leader), "Diversity and Forest Change: Characterizing functional, phylogenetic and genetic contributions to diversity gradients and dynamics in tree communities". Smithsonian Institution's Conservation Biology Institute, VA, USA, summer 2013 and Xishuangbanna Tropical Botanical Garden, China, summer 2014.

- 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

COURSES TAUGHT

- 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)
- Ecological Interactions, BIOS 454/854 (Spring 2012, 2013; ACE-10 Certified)
- Advanced Community Ecology, BIOS 959 (Spring 2008, 2010)
- Research for Undergraduates in Theoretical Biology, BIOS 316
[\(http://www.math.unl.edu/programs/rute/\)](http://www.math.unl.edu/programs/rute/) (Spring, Summer, Fall 2008, Spring, Summer, Fall 2009; Summers of 2008 & 2009 were a field research course in Borneo)

MENTORSHIP

Postdoctoral Fellows

- Laetitia Virlovet Genetic control of drought hardening physiology in corn (co-supervised with M. Fromm and Z. Avramova; 2012-present)
- Noelle Beckman Neighborhood competition of trees in relation to soil resources (UNL Program of Excellence Fellow, August 2010 – August 2012)
- Amy Kochsiek Trade-offs in allocation to growth, defense, and storage among Bornean tree species (National Science Foundation Fellow, January 2010 – December 2011)

Graduate Thesis Advisees

- JuPing Chan Soil-related variation in biomass allocation of Bornean tree species, M.Sc.
- Nohemi Huanca Negative density dependence in Amazonian forests, Ph.D., Fulbright Fellow
- Melissa Whitman Patterns of diversity along elevation gradients, Ph.D., NSF Graduate Research Fellow
- Kathy Roccaforte Mechanisms of reproductive isolation in two *Erythronium* species (Liliaceae), M.Sc., Co-advised with Diana Pilson (May 2012)

Graduate Committee Membership

- Nalaka Geekiyanage Drought responses of tropical trees (Kyoto University, K. Kitajima, Ph.D.)
- Max Segnitz Plant-pathogen interactions in Bornean trees (Stanford, K. Peay, PhD)
- Dakota Ahrendsen Phylogenetic diversity of prairie plants (UNO, R. Kellar, M.Sc.)
- Bethany Teeters Pollinator diversity and services in prairies (SNR, C. Allen, Ph.D.)
- Dan Gates Hybrid origins of species in *Iochroma* (Stacey Smith & Diana Pilson, Ph.D.)

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|-------------------|--|
| Kyle Funk | Demographic trade-offs in California oaks (SBS, J. Knops, Ph.D.) |
| 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/NSF REU Advisees

| | |
|----------------------|---|
| Rachel Pahlke | UCARE Student: Leaf-to-leaf variation in protein concentration (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: adaptive variation and phenotypic plasticity with respect to soil resources: Undergraduate Thesis for Distinction (Summer 2009- Spring 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 Logan 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) |

Undergraduate Student Research Advisees

| | |
|----------------|---|
| 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) |
| Jake Arneson | UCARE: Sex ratio and gender allocation in red cedar (Co-advisor with Advisor J. Knops, Summer 2009-Fall 2010) |

Jeffrey Jensen Leaf venation of Bornean tree species (Spring 2009)

Work-Study Lab Assistants

Zoe Masterpole, Itahi Sanchez, Jonathan Wang

Graduate and Undergraduate Advisees – Research Grants and Awards

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|--------------------|---|
| 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) SBS Special Funds Graduate Research Award (\$1500; 2010) 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) SBS Special Funds Undergraduate Research Award (\$780; 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) SBS Special Funds Undergraduate Research Award (\$1,500; 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) |