

Nathan Garrick Swenson

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Education

Ph.D. 2008. Ecology and Evolutionary Biology (Minor in Global Change). University of Arizona, Tucson, Arizona, U.S.A.

Dissertation: *The Influence of Phylogenetic and Functional Similarity on Species Coexistence Through Space and Time.*

Committee: Brian Enquist (Chair), David Breshears, Travis Huxman, Michael Sanderson and Larry Venable

M.Sc. 2004. Biology. New Mexico State University, Las Cruces, New Mexico, U.S.A.

Thesis: *The Geography and Physiology of Hybridization, Hybrid Zones, and Species Range Boundaries.*

Committee: Daniel Howard (Chair), Craig Benkman, Jeanne Fair and Vince Gutschick

B.A. 2001. Biology. St. Olaf College, Northfield, Minnesota, U.S.A.

Academic & Research Positions

Assistant Professor, 2009 - Present, Department of Plant Biology and Ecology, Evolutionary Biology and Behavior Program, Michigan State University.

NSF Post-Doctoral Fellow in Bioinformatics, 2008-2009, Center for Tropical Forest Science - Asia Program, Harvard University Herbaria, Harvard University.

Guest Faculty, 2008, Tropical Plant Systematics Course, Palo Verde and La Selva Biological Research Stations, Organization for Tropical Studies, Duke University and Universidad de Costa Rica.

Graduate Teaching Associate, 2004-2008, Ecology and Evolutionary Biology Department, University of Arizona.

Graduate Research Fellow, 2006, Geographic Analysis and Monitoring Program, United States Geological Survey.

Research Associate, 2004, Laboratory for Ecological and Evolutionary Genetics, New

Mexico State University.

Graduate Research Fellow, 2003-2004, Los Alamos National Laboratory.

Graduate Teaching Assistant, 2002-2003, Department of Biology, New Mexico State University.

Field Research Technician, 2001-2002. Luquillo Forest Dynamics Plot, Institute for Tropical Ecosystem Studies, University of Puerto Rico.

Academic Awards & Honors

Young Investigators Prize, 2011, American Society of Naturalists. (*'Recognizes outstanding and promising work by investigators who received their doctorates in the preceding three years'*).

Invited Speaker 5th Annual Early Career Scientists Symposium: "Using Phylogenies in Ecology", 2009, University of Michigan.

Award in Tropical Botany (*'Established to promote the preservation of tropical forests by enlarging the body of botanists with field experience'*), 2008, The Garden Club of America and The World Wildlife Fund.

Robert W. Hoshaw Memorial Award (*Highest departmental honor for University of Arizona Ecology and Evolutionary Biology graduate students*), 2007, Ecology and Evolutionary Biology, University of Arizona.

Galileo Circle Scholar Award (*Given to University of Arizona's 'finest graduate student scientists'*), 2007, College of Science, University of Arizona.

Earth Fellowship (*Given to top incoming PhD students pursuing a minor in Global Change*), 2005-2006, Institute for the Study of Planet Earth, University of Arizona.

Outstanding Graduate Student Award (*Given to top graduate student in the U.S. Mountain West Region incorporating geospatial information and technology in their research*), 2003, Geospatial Information and Technology Association.

Grants & Fellowships

National Science Foundation, 2011-2016, Title: "*LTREB: Long-term studies of flowering, fruiting and seedling recruitment in Neotropical forests: global change, climate variability and mechanisms of species coexistence*". PI: Nancy Garwood. Co-PIs: Margaret Metz, Helene Muller-Landau, S. Joseph Wright, Renato Valencia, Jess Zimmerman, Nathan Swenson, Jill Thompson and Maria Uriarte. US\$ 449,984

National Science Foundation, 2011-2014, Title: "*Collaborative Research: Modeling Successional Vegetation Dynamics in Wet Tropical Forests at Multiple Scales: Integrating Neighborhood Effects, Functional Traits,*

and Phylogeny". PI: Maria Uriarte. Co-PIs: Robin Chazdon, Nathan Swenson and Jess Zimmerman. US\$ 660,000 (US\$ 170,000 to MSU).

National Science Foundation, 2010-2015, Title: "*Dimensions IRCN: Diversity and Forest Change: Characterizing Functional, Phylogenetic and Genetic Contributions to Diversity Gradients and Dynamics in Tree Communities*". PI: Stuart Davies. Co-PIs: Richard Condit, W. John Kress, Helene Muller-Landau and Nathan Swenson. US\$ 631,640

National Science Foundation Post-Doctoral Fellowship in Bioinformatics, 2008-2009, Center for Tropical Forest Science - Asia Program, Harvard University Herbaria, Harvard University. Title: "*Phylogenetic Diversity and Turnover in Tropical Forests: Discerning the Role of Ecological, Biogeographic and Evolutionary Processes*". US\$ 60,000

Post-Doctoral Fellowship, 2008-2009, National Center for Ecological Analysis and Synthesis, University of California - Santa Barbara. (*Declined*).

Biodiversity Collections Travel Grant, 2008, Bio5 Institute, University of Arizona. Title: "*An Inventory of the Phylogenetic and Functional Diversity in a Costa Rican Montane Rain Forest*". US\$ 5,000

CTFS Research Grant, 2007-2008, Center for Tropical Forest Science, Smithsonian Tropical Research Institute. Title: "*Life-History, Functional Diversity and the Post-Hurricane Dynamics of a Forest Plot*". US\$ 10,000

Dissertation Improvement Grant, 2007, Institute for the Study of Planet Earth, University of Arizona.

Graduate Research Fellowship, 2006, Geographic Analysis and Monitoring Program, United States Geological Survey, Tucson, Arizona.

Rexford Daubenmire Scholarship, 2005-2006, Organization for Tropical Studies, Duke University and Universidad de Costa Rica.

Foreign Language Area Scholarship, 2005, Center for Latin American Studies, University of Arizona and Universidade Federal do Ceara, Brasil. (*Declined*).

Graduate Research Fellowship, 2003-2004, Los Alamos National Laboratory.

Grant-in-Aid-of-Research, 2003, Sigma Xi: The Research Society.

Publications

Stegen, J.C., A.L. Freestone, T.O. Crist, M.J. Anderson, J.M. Chase, L.S. Comita, H.V. Cornell, K.F. Davies, S.P. Harrison, A.H. Hurlbert, B.D. Inouye, N.J.B. Kraft, J.A. Myers, N.J. Sanders, **N.G. Swenson**, and M. Vellend. *In press*. Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. **Global Ecology and Biogeography**.

Kraft, N.J.B., L.S. Comita, J.M. Chase, N.J. Sanders, **N.G. Swenson**, T.O. Crist, J.C. Stegen, M. Vellend, B. Boyle, M.J. Anderson, H.V. Cornell, K.F. Davies, A.L. Freestone, B.D. Inouye, S.P. Harrison, and J.A. Myers. *In press*. Disentangling the drivers of β -diversity along latitudinal and elevational gradients. **Science**

Swenson, N.G., B.J. Enquist, J. Pither, A.J. Kerkhoff, B. Boyle, M.D. Weiser, J.J. Elser, W.F. Fagan, J. Forero-Montana, N. Fyllas, N.J.B. Kraft, J.K. Lake, A.T. Moles, S. Patino, O.L. Phillips, C.A. Price, P.B. Reich, C.A. Quesada, J.C. Stegen, R. Valencia, I.J. Wright, S.J. Wright, S. Andelman, P.M. Jorgensen, T.E. Lacher, A. Monteagudo, P. Nunez-Vargas, R. Vasquez, and K.M. Nolting. *In press*. The biogeography and filtering of woody plant functional diversity in North and South America. **Global Ecology and Biogeography**.

Hulshof, C.M., J.C. Stegen, **N.G. Swenson**, B.J. Enquist, and C.A.F. Enquist. *In press*. Interannual variability in growth and reproduction in the tropical tree *Bursera simaruba*: the role of allometric size dependency and climatic variability. **Ecology**

Norden, N., S.G. Letcher, V. Boukili, **N.G. Swenson**, and R.L. Chazdon. *In Press*. Demographic drivers of successional changes in phylogenetic structure across life-history stages in tropical plant communities. **Ecology**

Swenson, N.G. *In Press*. Phylogenetic analyses of ecological communities using barcode data. In **DNA Barcodes: Methods and Protocols**, Eds. W.J. Kress and D.L. Erickson, Springer-Verlag.

Stegen, J.C., **N.G. Swenson**, B.J. Enquist, E.P. White, O.L. Phillips, P.M. Jorgensen, M.D. Weiser, A. Monteagudo-Mendoza, and P. Nunez-Vargas. 2011. Variation in above-ground forest biomass across broad climatic gradients. **Global Ecology and Biogeography** 20:744-754.

Kattge, J., ...**N.G. Swenson**, ...C. Wirth (129 Authors Total). 2011. TRY – a global database of plant traits. **Global Change Biology** 17:2905-2935.

Swenson, N.G. 2011. Phylogenetic beta diversity metrics, trait evolution and inferring the functional beta diversity of communities. **PLoS One** 6:e21264.

Pei, N.C., J.Y. Lian, D.L. Erickson, **N.G. Swenson**, W.J. Kress, W.H. Ye, and X.J. Ge. 2011. Exploring tree-habitat associations in a Chinese subtropical forest plot using a molecular phylogeny generated from DNA barcode markers. **PLoS One** 6:e21273.

Swenson, N.G. 2011. The role of evolutionary processes in producing biodiversity patterns, and the interrelationships between taxonomic, functional and phylogenetic biodiversity. **American Journal of Botany** 98:472-480. *Invited Review for Special Issue on "Biodiversity" with Editors Peter Raven, Chris Pires and Jon Chase.*

Swenson, N.G., P. Anglada-Cordero and J.A. Barone. 2011. Deterministic tropical

tree community turnover: evidence from patterns of functional beta diversity along an elevational gradient. **Proceedings of the Royal Society B** 278:877-884.

- Anderson, M.J., T.O. Crist, J.M. Chase, M. Vellend, B.D. Inouye, A.L. Freestone, N.J. Sanders, H.V. Cornell, L.S. Comita, K.F. Davies, S.P. Harrison, N.J.B. Kraft, J.C. Stegen, and **N.G. Swenson**. 2011. Navigating the multiple meanings of beta diversity: a roadmap for the practicing ecologist. **Ecology Letters** 14:19-28.
- Schwaderer, A.S., K. Yoshiyama, P. de Tezanos-Pinto, **N.G. Swenson**, C.A. Klausmeier, and E. Litchman. 2011. Eco-evolutionary differences in light utilization traits and distributions of freshwater phytoplankton. **Limnology and Oceanography** 56:589-598.
- Uriarte, M., **N.G. Swenson**, R.L. Chazdon, L.S. Comita, W.J. Kress, D.L. Erickson, J. Forero-Montana, J.K. Zimmerman, and J. Thompson. 2010. Trait similarity, shared ancestry, and the structure of neighborhood interactions in a subtropical wet forest: implications for community assembly. **Ecology Letters** 13:1503-1514.
- Schreeg, L.A., W.J. Kress, D.L. Erickson, and **N.G. Swenson**. 2010. Phylogenetic analysis of local-scale tree soil associations in a lowland moist tropical forest. **PLoS One** 5:e13685.
- Swenson, N.G.** 2010. Mapping the suturing of a continental biota. **Molecular Ecology** 19:5324-5327.
- Kress, W.J., D.L. Erickson, **N.G. Swenson**, J. Thompson, M. Uriarte, and J.K. Zimmerman. 2010. Improvements in the application of DNA barcodes in building a community phylogeny for tropical trees in a Puerto Rican forest dynamics plot. **PLoS One** 5:e15409.
- Swenson, N.G.**, and M.D. Weiser. 2010 Plant geography on the basis of functional traits: an example from eastern North America. **Ecology** 91:2234-2241.
- Swenson, N.G.** 2010. Suture zones and phylogeographic concordance: are they the same and how should we test for their existence? *In: **Phylogeography: Concepts, Intraspecific Patterns and Speciation Processes***, Nova Publishing, New York.
- Swenson, N.G.**, and J. Pither. 2010. Statistical phylogeography, ecological niche models and predicting glacial refugia: an examination of key assumptions. *In: **Phylogeography: Concepts, Intraspecific Patterns and Speciation Processes***, Nova Publishing, New York.
- Elser, J.J., W.F. Fagan, A.J. Kerkhoff, **N.G. Swenson**, and B.J. Enquist. 2010. Biological stoichiometry of plant production: metabolism, scaling, and ecological response to global change. **New Phytologist** 186:593-608.

(Tansley Review)

- Hulshof, C.M., and **N.G. Swenson**. 2010. Variation in leaf functional trait values within and across individuals and species: an example from a Costa Rican dry forest. **Functional Ecology** 24:217-223.
- Stegen, J.C., and **N.G. Swenson**. 2009. Functional trait assembly through ecological and evolutionary time. **Theoretical Ecology** 2:239-250.
- Kress, W.J., D.L. Erickson, F.A. Jones, **N.G. Swenson**, R. Perez, O. Sanjur, and E. Bermingham. 2009. Plant DNA barcodes and a community phylogeny of a tropical forest dynamics plot in Panama. **Proceedings of the National Academy of Sciences U.S.A.** 106:18621-18626.
- Stegen, J.C., **N.G. Swenson**, R. Valencia, B.J. Enquist, and J. Thompson. 2009. Above-ground forest biomass is not consistently related to wood density or basal area in tropical forests. **Global Ecology and Biogeography** 18:617-625.
- Moles, A.T., D.I. Warton, L. Warman, **N.G. Swenson**, S.W. Laffan, A.E. Zanne, A. Pitman, F.A. Hemmings, and M.R. Leishman. 2009. Global patterns in plant height. **Journal of Ecology** 97:923-932.
- Swenson, N.G.**, and B.J. Enquist. 2009. Opposing assembly mechanisms in a Neotropical dry forest: implications for phylogenetic and functional community ecology. **Ecology** 90:2161-2170.
- Chave, J., D. Coomes, S. Jansen, S. Lewis, **N.G. Swenson**, and A.E. Zanne. 2009. Towards a worldwide wood economics spectrum. **Ecology Letters** 12:351-366.
- Swenson, N.G.** 2009. Phylogenetic resolution and quantifying the phylogenetic diversity and dispersion of communities. **PLoS One** 4:e4390
- Swenson, N.G.** 2009. Herbaceous monocot form and function along a tropical rain forest light gradient: a reversal of dicot strategy. **Journal of Tropical Ecology** 25:103-106.
- Swenson, N.G.**, J.M Fair, and J. Heikooop. 2008. Water stress and hybridization between *Quercus gambelii* and *Q. grisea*. **Western North American Naturalist** 68:498-507.
- Swenson, N.G.**, and B.J. Enquist. 2008. The relationship between stem and branch wood specific gravity and the ability of each measure to predict leaf area. **American Journal of Botany** 95:516-519.
- Swenson, N.G.** 2008. The past and future influence of geographic information systems on hybrid zone, phylogeographic and speciation research. **Journal of Evolutionary Biology** 21:421-434.
- Enquist, B.J., A.J. Kerkhoff, S.C. Stark, **N.G. Swenson**, M.C. McCarthy, and C.A. Price. 2007. A general integrative model for scaling plant growth and functional trait

spectra. **Nature** 449:218-222.

- Swenson, N.G.**, B.J. Enquist, J. Thompson, and J.K. Zimmerman. 2007. The influence of spatial and size scales on phylogenetic relatedness in tropical forest communities. **Ecology** 88:1770-1780.
- Swenson, N.G.**, D.L. Mahler, M. Ferro, and A. Ritchie. 2007. The energetic determination, spatial dispersion and density dependence of *Myrmeleon* pits in Las Cruces, Costa Rica. **Biotropica** 38:774-777.
- Weiser, M.D., B. J. Enquist, B. Boyle, T. J. Killeen, P. M. Jorgensen, G. Fonseca, M. Jennings, A. J. Kerkhoff, T. E. Lacher Jr., A. Monteagudo, M.P. Nunez Vargas, O.L. Phillips, **N.G. Swenson**, and R. Vasquez Martinez. 2007. Range size distributions and the latitudinal gradient in New World woody plant species richness. **Global Ecology and Biogeography** 16:679-688.
- Swenson, N.G.**, and B.J. Enquist. 2007. Ecological and evolutionary determinants of a key plant functional trait: wood density and its community-wide variation across latitude and elevation. **American Journal of Botany** 91:451-459.
- Swenson, N.G.**, B.J. Enquist, J. Pither, J. Thompson, and J.K. Zimmerman. 2006. The problem and promise of scale dependency in community phylogenetics. **Ecology** 87:2418-2424.
- Swenson, N.G.** 2006. GIS-based niche models reveal unifying climatic mechanisms that maintain the location of avian hybrid zones in a North American suture zone. **Journal of Evolutionary Biology** 19:717-725.
- Swenson, N.G.**, and D.J. Howard. 2005. Clustering of contact zones, hybrid zones, and phylogeographic breaks in North America. **The American Naturalist** 166:581-591.
- Swenson, N.G.**, and D.J. Howard. 2004. Do suture zones exist? **Evolution** 58:2391-2397.

White Papers

- Enquist, B.J., R. Condit, R.K. Peet, M. Schildhauer, B.M. Thiers, S. Andelman, B. Boyle, J. Cavender-Bares, S. Dolins, S. Hampton, J. Kennedy, B.J. McGill, H. ter Steege, J.C. Svenning, **N.G. Swenson**, O. Phillips, P. Jorgensen, D. Vieglais, Corine Vriesendorp and S. Wiser. 2009. Cyberinfrastructure for an integrated botanical information network to investigate the ecological impacts of global climate change on plant biodiversity. *iPlant White Paper*
www.iplantcollaborative.org/sites/default/files/BIEN_White_Paper.pdf

Seminars

- Curriculum for the Environment and Ecology, University of North Carolina, September 2011, (Hosts: CEE Graduate Students)
 Title: *The utility of phylogenetic and functional axes of biodiversity in*

- understanding the assembly and dynamics of communities.*
 Ecological Society of American Annual Meeting, Austin, Texas, August 2011.
 Title: *Distribution of functional traits in trees of Europe and eastern North America.*
- Ecological Society of American Annual Meeting, Austin, Texas, August 2011.
 Title: *Comparative phylogenetic and functional turnover among temperate versus tropical forest sites.*
- CTFS – CforBio Symposium on Climate Change and Forest Biodiversity Conservation, Institute of Botany, Chinese Academy of Sciences, Beijing, China, July 2011 (Hosts: Stuart Davies and Keping Ma)
- Young Investigators Prize Symposium, Annual Meeting of the American Society of Naturalists, June 2011 (Host: Bob Ricklefs)
 Title: *The distribution and diversity of plant function from local to continental scales.*
- Phylogenetic Ecology Symposium, National Center for Ecological Analysis and Synthesis, November 2010 (Hosts: Jeannine Cavender-Bares, David Ackerly and Ken Kozak)
 Title: *The latitudinal gradient in phylogenetic and functional beta diversity in tree communities*
- Institute of Botany, Chinese Academy of Sciences, Beijing, August 2010, (Hosts: Keping Ma and Xiangcheng Mi)
 Title: *The distribution of phylogenetic and functional diversity through space and time in tropical tree communities*
- Association of Tropical Biology and Conservation Annual Meeting, Bali, Indonesia, July 2010.
 Title: *Phylogenetic beta diversity in tropical forest plots: an examination of alternative approaches.*
- Department of Forestry, Michigan State University, March 2010, (Host: Rich Kobe)
 Title: *Phylogenetic and functional turnover and diversity in tropical forests through space and time.*
- Ecological Society of American Annual Meeting, Albuquerque, New Mexico, August 2009.
 Title: *Phylogenetic turnover and diversity in tropical forests through space and time.*
- Association of Tropical Biology and Conservation Annual Meeting, Marburg, Germany July 2009.
 Title: *Phylogenetic turnover and diversity in tropical forests through space and time.*
- Early Career Scientists Symposium: Using Phylogenies in Ecology, University of Michigan, March 2009 (Host: Deborah Goldberg).
 Title: *Stochastic and deterministic temporal turnover of the tree composition in a tropical rain forest: the role of phylogeny and species function.*
- Kellogg Biological Station, Michigan State University, October 2008.
 Title: *The Ecological Implications and Evolution of Whole Plant Form and Function.*
- Ecological Society of America Annual Meeting, Milwaukee, Wisconsin, August 2008.
 Title: *Long-Term Trends in the Species, Functional, and Phylogenetic Diversity in Two Neo-Tropical Forest Dynamics Plots.*
- Organization for Tropical Studies Tropical Plant Systematics Course, Parque Nacional Palo Verde, Costa Rica, June 2008 (Hosts: Brad Boyle and Robbin Moran)

- Title: *Phylogeny, Functional Traits, Communities and the Comparative Method*.
- Department of Ecology and Evolutionary Biology, May 2008. (Dissertation Defense)
Title: *The Influence of Phylogenetic and Functional Similarity on Species Coexistence Through Space and Time*.
- Plant Biology Department, Michigan State University, February 2008. (Host: Doug Schemske) Title: *Functional Convergence and Divergence in Plant Communities Through Space and Time*.
- Department of Ecology and Evolutionary Biology, University of Arizona, October 2007.
Title: *Functional Convergence, Divergence and Co-Existence in a Neo-Tropical Dry Forest*.
- Center for Tropical Forest Science, Smithsonian Tropical Research Institute, Panama City, Panama, September 2007. (Host: Stuart Davies) Title: *Phylogenetic and Functional Diversity in Tropical Forest Plot Communities*.
- Ecological Society of America Annual Meeting, San Jose, California, August 2007. Title: *The Distribution and Diversity of Plant Function Across the New World*.
- El Verde Field Station, Institute for Tropical Ecosystem Studies, University of Puerto Rico, March 2007 (Host: Jill Thompson). Title: *Phylogenetic and Functional Diversity in Tropical Forest Plot Communities*.
- Laboratory of Tree-Ring Research, University of Arizona, March 2007 (Host: Troy Knight). Title: *Ecological and Evolutionary Determinants of a Key Plant Functional Trait: Wood Density and its Community-Wide Variation Across Latitude and Elevation*.
- Department of Ecology and Evolutionary Biology, University of Arizona, March 2007.
Title: *A Phylogenetic and Functional Assessment of Plant Assemblages Across Broad Gradients*.
- Department of Ecology and Evolutionary Biology, University of Arizona, April 2006. Title: *The Geographic Distribution and Evolutionary History of Wood Density*.
- Ecological Society of America Annual Meeting, Montreal, Quebec, August 2005. Title: *Phylogenetic Patterning and Spatial Scaling in Tropical Forest Plot Communities*.
- Southwestern Association of Biologists Annual Meeting, Portal, Arizona, October 2004.
Title: *Hotspots of Contact Zone Clustering*.
- Department of Ecology and Evolutionary Biology, University of Arizona, October 2004.
Title: *Do Suture Zones Exist?*
- Department of Biology, New Mexico State University, June 2004 (Thesis Defense). Title: *The Geography and Physiology of Hybridization, Hybrid Zones, and Species Range Boundaries*.
- Department of Geography, New Mexico State University, October 2003 (Host: Dr. Mike DeMers). Title: *Testing Macro-Evolutionary Theories with GIS*.

Working Groups & Workshops

iPlant Collaborative, 2010 - Present, *Botanical Geospatial Diversity Group*.

NESCent & ARC-NZ Research Network for Vegetation Function – Duke University, 2011-2013, *Tempo and Mode of Plant Trait Evolution: Synthesizing Data from Extant and Extinct Taxa*.

NCEAS - UC-Santa Barbara, 2009 - 2011, *A Synthesis of Patterns, Analysis, and*

Mechanisms of Beta-Diversity Along Ecological Gradients.

Center for Tropical Forest Science, 2009, *Forest Dynamics Plot Data Analysis Workshop.*

NCEAS - UC-Santa Barbara, 2008 - 2010, *Developing an Integrated Botanical Information Network to Investigate the Ecological Impacts of Global Climate Change on Plant Biodiversity.*

Center for Tropical Forest Science, 2008 - Present, *Functional Trait Initiative.*

TRY Initiative, 2008 - Present, *Refining Plant Functional Classifications for Earth System Modeling.*

iPlant Collaborative - Biosphere2, 2008, *Grand Challenge Workshop: Mechanistic Basis of Plant Adaptation.*

NESCent & ARC-NZ Research Network for Vegetation Function – Duke University, 2007, *Wood Anatomy and Wood Density Working Group.*

Service & Outreach

Editorial Board: PLoS One, 2011 – Present.

Peer Reviewer For: *American Journal of Botany, American Naturalist, Annals of Botany, Austral Ecology, Biotropica, Ecography, Ecological Entomology, Ecological Monographs, Ecology, Ecology Letters, Evolution, Evolutionary Ecology, Functional Ecology, Functional Plant Biology, Global Ecology and Biogeography, Heredity, Journal of Animal Ecology, Journal of Biogeography, Journal of Ecology, Journal of Evolutionary Biology, Journal of Vegetation Science, Methods in Ecology and Evolution, Molecular Ecology, Oecologia, Oikos, PLoS One, Plant Science, Proceedings of the National Academy of Sciences U.S.A., Proceedings of the Royal Society of London Series B, Systematic Biology, Theoretical Ecology.* (reviewer for about 20-30 articles per year)

Book Reviewer For: University of Chicago Press

Grant Reviewer For: *Academy of Science of the Czech Republic, National Science Foundation, Netherlands Organisation for Scientific Research, Superior Council of the National Fund for Scientific and Technological Development – FONDECYT – Chilean Government Funding Body.*

Instructor and Organizer, 2010, Chinese Academy of Sciences – Institute of Botany Analytical Workshop, *Using Phylogenetic Trees to Analyze Communities, Traits and Ranges*, Beijing, China.

Co-Organizer, 2010, Association for Tropical Biology and Conservation Annual Meeting Symposium: *Phylogenetics in the tropics: building trees to understand community structure and tropical biodiversity*, Bali, Indonesia. Co-Organizers W. John Kress and Vinita Gowda.

Co-Organizer, 2004, Graduate Research and Arts Symposium, New Mexico State University.

Secretary and Publicist, 2003-2004, Graduate Student Council, New Mexico State University.
 Vice President, 2003-2004, Biology Graduate Student Organization, New Mexico State University.
 Judge, 2003, Annual Biology Symposium, New Mexico State University.

Press Coverage of Research

Coverage of Swenson and Howard 2005.
 "Recommended" ranking from Faculty of 1000

Coverage of Swenson 2006.
 Hess, P. 2007. *Great Plains Hybrid Zones*. **Birding Magazine** 39:32.
<http://www.aba.org/birding/v39n1p32.pdf>

Coverage of Stegen and Swenson 2009
 "Must Read" ranking from Faculty of 1000

Coverage of Moles et al. 2009:
 Walker, M. 2009. *Where Giant Plants Dare to Grow*. **BBC Earth News: Reporting Life on Earth**.
http://news.bbc.co.uk/earth/hi/earth_news/newsid_8113000/8113633.stm
 Nature Research Highlights. 2009. *Ecology: Putting Height on the Map*. **Nature** 460:14.
 "Recommended" ranking from Faculty of 1000

Coverage of Swenson and Weiser 2010:
 "Recommended" ranking from Faculty of 1000

Coverage of Anderson et al. 2011:
 "Must Read" ranking from Faculty of 1000

Teaching

Instructor, Plant Structure and Function Lecture and Lab, 2010 – Present, Michigan State University.

Guest Faculty, Tropical Plant Systematics – Phylogenetic Analyses of Traits and Communities, 2008, Organization for Tropical Studies.

Teaching Associate, Plant Form, Function and Diversity, 2007-2008, University of Arizona, Instructor: Dr. Brian Enquist

Head Teaching Associate, Ecology, 2006-2008, University of Arizona, Instructor: Dr. Michael Rosenzweig

Teaching Associate, Vertebrate Physiology, 2004, University of Arizona, Instructor: Dr. Kevin Bonine

Teaching Assistant, Human Anatomy and Physiology, 2002, New Mexico State

University, Instructor: Dr. Peter Houde

Students & Postdocs

Dr. Jeffrey L. Lake, 2010 – 2011, Postdoctoral Research Associate.

Research: *Gradients in functional diversity from local to biogeographic scales.*

Currently: Assistant Professor at Adrian College

Dr. James C. Stegen, 2009 – 2011, NSF Postdoctoral Fellow in Bioinformatics,
Laboratory of Allen Hurlbert – UNC Chapel Hill, Swenson (MSU) and
Chase (Wash U) Labs serve as co-sponsors.

Research: *Phylogenetic and functional measures of beta diversity across plant and animal assemblages.*

Currently: Staff Scientist at a National Lab in Washington

Kristen Nolting, 2010 – Present, Ph.D. Student in Swenson Lab (MSU Plant Sciences
Fellow).

Research: *The ecological diversification and historical assembly of Coprosma (Rubiaceae) in the Pacific.*

Kathleen McPeck, 2009 – Present, Undergraduate Researcher in Swenson Lab.

Research: *GIS mapping of functional diversity and temporal trends in functional diversity in temperate tree communities.*

Sarah Kilvington, 2010 – Present, Undergraduate Researcher in Swenson Lab.

Research: *Intra-specific variability in function across latitude.*

Runyu Wu, 2010 – Present, Undergraduate Researcher in Swenson Lab.

Research: *A comparison of trait distributions across the tree floras of Europe, North America and China: Are communities functionally saturated?*

Shan Kothari, 2010 – Present, Undergraduate Researcher in Swenson Lab (MSU
Professorial Assistantship).

Research: *Rates of phenotypic evolution and gradients in species, phylogenetic and functional diversity: a simulation study.*

Graduate Committees

Benedicte Bachelot, 2009 – 2011, M.Sc. student in Kobe Lab (MSU Forestry)

Currently: Ph.D. Student in Uriarte Lab at Columbia University

Andrea Maguire, 2009 – Present, Ph.D. student in Kobe Lab (MSU Forestry)

Paula Marquardt, 2010 – Present, Ph.D. student in Telewski Lab (MSU Plant Biology)

Robert Muscarella, 2011 – Present, PhD. student in Uriarte Lab (Columbia University)