

## Jonathan A. Myers

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### Research Interests

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I study patterns and causes of biodiversity at multiple scales, ranging from variation in the diversity of species' traits to gradients in the assembly, diversity and dynamics of ecological communities across the planet. I explore theories to explain why changes in biodiversity through space and time emerge via the interplay of fundamental processes of community assembly (dispersal, ecological drift, niche selection & speciation). My research group focuses on four questions that integrate concepts from community ecology, biogeography and evolutionary biology, and plant functional ecology:

- **Community Assembly from Local to Global Scales:** What processes determine community assembly across biodiversity gradients?
- **Eco-Evolutionary Assembly of Biodiversity Hotspots:** How do species-rich communities and regional biotas assemble?
- **Biodiversity in Changing Environments:** Why does environmental change alter biodiversity, biotic interactions, and ecological networks?
- **Species Pools, Species Traits & Biodiversity Change:** How does regional biodiversity assemble into local communities in natural and human-modified landscapes?

We explore these questions using a combination of field experiments, large-scale and long-term observational studies, ecological modeling, and synthesis of biodiversity data across a wide range of ecosystems and organisms spanning temperate to tropical regions and natural to human-modified ecosystems.

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### Academic & Research Appointments

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- Associate Professor, Dept. of Biology, Washington University, St. Louis, MO 2018–Present
- Biodiversity Fellow, Living Earth Collaborative, Washington University, St. Louis, MO 2018–Present
- Research Associate, Missouri Botanical Garden, St. Louis, MO 2012–Present
- Assistant Professor, Dept. of Biology, Washington University, St. Louis, MO 2012–2018
- Postdoctoral Research Fellow, Tyson Research Center Washington University, St. Louis, MO; Advisor: Dr. Jonathan M. Chase 2010–2012
- Research Assistant, Cary Institute of Ecosystem Studies, Millbrook, NY; Research site: Luquillo Experimental Forest, Puerto Rico; Supervisor: Dr. Charles D. Canham 2002
- Research Assistant, Smithsonian Tropical Research Institute (STRI), Panama City, Panama; Research site: Barro Colorado Island, Panama; Supervisor: Dr. Edmund V.J. Tanner (University of Cambridge, UK) 2001
- Botanist, U.S. Forest Service Northeastern Research Station, Burlington, VT Research site: Paul Smith's College Adirondack Visitor Interpretive Center, NY; Supervisors: Dr. Gary L. Wade & Dr. Mark J. Twery 2000

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## Education

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- Louisiana State University, Baton Rouge, LA 2005–2010  
Ph.D., Department of Biological Sciences – Division of Systematics, Ecology and Evolution; Thesis: *Ecological assembly of high-diversity plant communities: Dispersal, competition & environmental filtering in longleaf pine savannas*; Advisor: Kyle E. Harms
- University of Florida, Gainesville, FL 2002–2005  
M.S., Department of Botany – Interdisciplinary Ecology Program; Thesis: *Seedling carbohydrate storage, survival, and stress tolerance in a neotropical forest*; Advisor: Kaoru Kitajima
- Organization for Tropical Studies, Universidad de Costa Rica, San Jose 2003  
Graduate Field Course: *Tropical Biology – An Ecological Approach*
- Cornell University, Ithaca, NY 2000–2002  
B.S., Biological Sciences – Ecology & Evolutionary Biology (*Distinction in Research*); Thesis: *Seed dispersal by white-tailed deer*; Advisor: Peter L. Marks
- Paul Smith's College, Paul Smiths, NY 1997–1999  
A.A.S., Forestry – Forest Recreation Concentration (*Summa Cum Laude*)

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**Publications:** 39 peer-reviewed journal articles, 2 book chapters, 1 research report, 1 teaching article, 7 manuscripts in review or revision; Google Scholar (Oct. 1, 2018): Citations = 2,833 (2,200 since 2013), h-index = 19, i10-index = 26; current & former members of my group in **red**; \*undergraduate student

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### Peer-Reviewed Journal Articles

39. Chengjin Chu, James A. Lutz, Kamil Král, Tomáš Vrška, Xue Yin, **Jonathan A. Myers**, Iveren Abiem, Alfonso Alonso, Norm Bourg, David F.R.P. Burslem, Min Cao, Hazel Chapman, Richard Condit, Suqin Fang, Gunter A. Fischer, Lianming Gao, Zhanqin Hao, Billy C.H. Hau, Qing He, Andrew Hector, Stephen P. Hubbell, Mingxi Jiang, Guangze Jin, David Kenfack, Jiangshan Lai, Buhang Li, Xiankun Li, Yide Li, Juyuan Lian, Luxiang Lin, Yankun Liu, Yu Liu, Yahuang Luo, Keping Ma, William McShea, Hervé Memiaghe, Xiangcheng Mi, Ming Ni, Michael J. O'Brien, Alexandre A. de Oliveira, David A. Orwig, Geoffrey G. Parker, Xiujuan Qiao, Haibao Ren, Glen Reynold, Weiguo Sang, Guochun Shen, Zhiyao Su, Xinghua Sui, I-Fang Sun, Songyan Tian, Bin Wang, Xihua Wang, Xugao Wang, Youshi Wang, George D. Weiblen, Shujun Wen, Nianxun Xi, Wusheng Xiang, Han Xu, Kun Xu, Wanhui Ye, Bingwei Zhang, Jiaxin Zhang, Xiaotong Zhang, Yingming Zhang, Kai Zhu, Jess Zimmerman, David Storch, Jennifer L. Baltzer, Kristina J. Anderson-Teixeira, Gary G. Mittelbach & Fangliang He. 2019. Direct and indirect effects of climate on richness drive the latitudinal diversity gradient in forest trees. *Ecology Letters* (In Press).
38. **Spasojevic, Marko J., Christopher P. Catano, Joseph A. LaManna & Jonathan A. Myers.** 2018. Integrating species traits into species pools. *Ecology* 99: 1265-1276.
  - **Concepts & Synthesis Paper**
37. **LaManna, Joseph A.,** Scott A. Mangan [...] **Dilys M. Vela Díaz** [...] & **Jonathan A. Myers** (49 total authors). 2018. Response to Comment on "Plant diversity increases with the strength of negative density dependence at the global scale". *Science* 360: eaar3824.
36. **LaManna, Joseph A.** Scott A. Mangan [...] **Dilys M. Vela Díaz** [...] & **Jonathan A. Myers** (49 total authors). 2018. Response to Comment on "Plant diversity increases with the strength of negative density dependence at the global scale". *Science* 360: eaar5245.

35. Lutz, James A., Tucker J. Furniss [...] **Jonathan A. Myers** [...] & Jess K. Zimmerman (98 total authors). 2018. Global importance of large-diameter trees. *Global Ecology and Biogeography* 27: 849-864.
- **Cover Article:** <https://onlinelibrary.wiley.com/doi/epdf/10.1111/geb.12807>
34. \*Van Horn, Thomas R., Solny A. Adalsteinsson, Katie M. Westoby, Elizabeth Biro, **Jonathan A. Myers, Marko J. Spasojevic, Maranda L. Walton** & Kim A. Medley. 2018. Landscape physiognomy influences abundance of the Lone Star tick, *Amblyomma americanum* (Ixodida:Ixodidae), in Ozark Forests. *Journal of Medical Entomology* 55: 982-988.
- **News Coverage:** "Landscape Terrain Provides New Angle for Measuring Tick Abundance", Entomology Today, Published Apr. 3, 2018
33. Hovanes, Katherine A., Kyle E. Harms, Paul R. Gagnon, **Jonathan A. Myers** & Bret D. Elder. 2018. Overdispersed spatial patterning of dominant bunchgrasses in southeastern pine savannas. *The American Naturalist* 191: 658-667.
32. Wang, Xugao, Thorsten Wiegand, Kristina J. Anderson-Teixeira, Norman A. Bourg, Zhanqing Hao, Robert Howe, Guangze Jin, David A. Orwig, **Marko J. Spasojevic, Shunzhong Wang, Amy Wolf & Jonathan A. Myers**. 2018. Ecological drivers of spatial community dissimilarity, species replacement, and species nestedness across temperate forests. *Global Ecology and Biogeography* 27: 581-592.
31. **LaManna, Joseph A.**, Scott A. Mangan, Alfonso Alonso, Norman A. Bourg, Warren Y. Brockelman, Sarayudh Bunyavejchewin, Li-Wan Chang, Jyh-Min Chiang, George B. Chuyong, Keith Clay, Richard Condit, Susan Cordell, Stuart J. Davies, Tucker J. Furniss, Christian P. Giardina, I. A. U. Nimal Gunatilleke, C. V. Savitri Gunatilleke, Fangliang He, Robert W. Howe, Stephen P. Hubbell, Chang-Fu Hsieh, Faith M. Inman-Narahari, David Janík, Daniel J. Johnson, David Kenfack, Lisa Korte, Kamil Král, Andrew J. Larson, James A. Lutz, Sean M. McMahon, William J. McShea, Hervé R. Memiaghe, Anuttara Nathalang, Vojtech Novotny, Perry S. Ong, David A. Orwig, Rebecca Ostertag, Geoffrey G. Parker, Richard P. Phillips, Lawren Sack, I-Fang Sun, J. Sebastián Tello, Duncan W. Thomas, Benjamin L. Turner, **Dilys M. Vela Díaz**, Tomáš Vrška, George D. Weiblen, Amy Wolf, Sandra Yap & **Jonathan A. Myers**. 2017. Plant diversity increases with the strength of negative density dependence at the global scale. *Science* 356: 1389-1392.
- **Commentary:** Comita, Liza, S. 2017. How latitude affects biotic interactions. *Science* 356: 1328-1329.
  - **Highlighted in:** Mittelbach, Gary G. 2017. A matter of time for tropical diversity. *Nature* (pg. 2).
  - **News Coverage:** "Global forest network cracks the case of tropical biodiversity", Washington University Newsroom, Published Jun. 29, 2017
  - **News Coverage:** "Is This the Long-Sought Answer to the Question of Tropical Biodiversity?", Smithsonian News Desk, Published Jun. 29, 2017
  - **News Coverage:** "Explaining Tropical Forests' Astonishing Biodiversity", Inside Science, Published Oct. 12, 2017
30. **LaManna, Joseph A.**, R. Travis Belote, Laura A. Burkle, **Christopher P. Catano** & **Jonathan A. Myers**. 2017. Negative density dependence mediates biodiversity-productivity relationships across scales. *Nature Ecology & Evolution* 1: 1107-1115.
29. **Catano, Christopher P.**, Timothy L. Dickson & **Jonathan A. Myers**. 2017. Dispersal and neutral sampling mediate contingent effects of disturbance on plant beta-diversity: A meta-analysis. *Ecology Letters* 20: 347-356.
- **Cover Article:** <https://onlinelibrary.wiley.com/toc/14610248/2017/20/3>
28. Harms, Kyle E., Paul R. Gagnon, Heather A. Passmore, **Jonathan A. Myers** & William J. Platt. 2017. Groundcover community assembly in high-diversity pine savannas: Seed arrival and fire-generates environmental filtering. *Ecosphere* 8: e01716.

27. **Myers, Jonathan A. & Joseph A. LaManna.** 2016. The promise and pitfalls of beta-diversity in ecology and conservation. *Journal of Vegetation Science* 27: 1081-1083.
  - **Invited Commentary Paper**
26. **LaManna, Joseph A., Maranda L. Walton,** Benjamin L. Turner & **Jonathan A. Myers.** 2016. Negative density dependence is stronger in resource-rich environments and diversifies communities when stronger for common but not rare species. *Ecology Letters* 19: 657-67.
25. Fisher, Joshua B., Sean Sweeney, Edward R. Brzostek, Tom P. Evans, Daniel J. Johnson, **Jonathan A. Myers,** Norman A. Bourg, Amy T. Wolf, Robert W. Howe & Richard P. Phillips. 2016. Tree-mycorrhizal associations detected remotely from canopy spectral properties. *Global Change Biology* 22: 2596-2607.
  - **News Coverage:** "NASA Satellite Images Uncover Underground Forest Fungi", NASA Earth Science News, Published Mar. 31, 2016
  - **News Coverage:** "Satellites Detect the Healthy Glow of a Forest with Underground Friends" Smithsonian News Desk, Published May 2, 2016
24. Buckley, Hannah L., Bradley S. Case, Jess K. Zimmerman, Jill Thompson, **Jonathan A. Myers** & Aaron M. Ellison. 2016. Using codispersion analysis to quantify and understand spatial patterns in species-environment relationships. *New Phytologist* 211: 735-749.
23. Oberle, Brad, Amy M. Milo, **Jonathan A. Myers, Maranda L. Walton,** Darcy F. Young & Amy E. Zanne. 2016. Direct estimates of downslope deadwood movement over 30 years in a temperate forest illustrate impacts of treefall on forest ecosystem dynamics. *Canadian Journal of Forest Research* 46: 351-361.
22. **Spasojevic, Marko J.,** Benjamin L. Turner & **Jonathan A. Myers.** 2016. When does intraspecific trait variation contribute to functional beta-diversity? *Journal of Ecology* 104: 487-496.
21. Burkle, Laura A., **Jonathan A. Myers** & R. Travis Belote. 2016. The beta-diversity of species interactions: Untangling the drivers of geographic variation in plant-pollinator diversity and function across scales. *American Journal of Botany* 103: 118-128.
  - **Invited Paper for Species Issue:** Evolutionary Insights from Studies of Geographic Variation
20. Burkle, Laura A., **Jonathan A. Myers** & R. Travis Belote. 2015. Wildfire disturbance and productivity as drivers of plant species diversity across spatial scales. *Ecosphere* 6:art202.
19. **Myers, Jonathan A.,** Jonathan M. Chase, Raelene M. Crandall & Iván Jiménez. 2015. Disturbance alters beta-diversity but not the relative importance of community assembly mechanisms. *Journal of Ecology* 103: 1291-1299.
  - **Cover Article:** [onlinelibrary.wiley.com/doi/10.1111/jec.2015.103.issue-4/issuetoc](http://onlinelibrary.wiley.com/doi/10.1111/jec.2015.103.issue-4/issuetoc)
18. Gagnon, Paul R., Heather A. Passmore, Matthew Slocum, **Jonathan A. Myers,** Kyle E. Harms, William J. Platt & C.E. Timothy Paine. 2015. Fuels and fires influence vegetation via above- and below-ground pathways in a high-diversity plant community. *Journal of Ecology* 103: 1009-1019.
17. Tello, J. Sebastián, **Jonathan A. Myers,** Manuel J. Macía, Alfredo F. Fuentes, Leslie Cayola, Gabriel Arellano, M. Isabel Loza, Vania Torrez, Maritza Cornejo & Peter M. Jørgensen. 2015. Elevational gradients in  $\beta$ -diversity reflect variation in the strength of local community assembly mechanisms across spatial scales. *PLoS ONE* 10: e0121458.
16. Anderson-Teixeira, Kristina J., Stuart J. Davies [...] **Jonathan A. Myers** [...] & Jess K. Zimmerman (108 total authors). 2015. CTFs-ForestGEO: A worldwide network monitoring forests in an era of global change. *Global Change Biology* 21: 528-549.
  - **News Coverage:** "If Trees Could Talk: Forest Research Network Reveals Global Change Effects", Smithsonian News Desk, Published Sep. 26, 2014
15. **Spasojevic, Marko J., \*Elizabeth A. Yablon,** Brad Oberle & **Jonathan A. Myers.** 2014. Ontogenetic trait variation influences tree community assembly across environmental gradients. *Ecosphere* 5:art129.

14. **Myers, Jonathan A.**, Jonathan M. Chase, Iván Jiménez, Peter M. Jørgensen, Alejandro Araujo-Murakami, Narel Paniagua-Zambrana & Renate Seidel. 2013. Beta-diversity in temperate and tropical forests reflects dissimilar mechanisms of community assembly. *Ecology Letters* 16: 151-157.
13. Stegen, James C., Amy L. Freestone, Thomas O. Crist, Marti J. Anderson, Jonathan M. Chase, Liza S. Comita, Howard V. Cornell, Kendi F. Davies, Susan P. Harrison, Allen H. Hurlbert, Brian D. Inouye, Nathan J.B. Kraft, **Jonathan A. Myers**, Nathan J. Sanders, Nathan G. Swenson & Mark Vellend. 2013. Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. *Global Ecology and Biogeography* 22: 202-212.
12. Lessard, Jean-Philippe, Jonathan Belmaker, **Jonathan A. Myers**, Jonathan M. Chase & Carsten Rahbek. 2012. Inferring local ecological processes amid species pool influences. *Trends in Ecology and Evolution* 27: 600-607.
  - **Cover Article:** [cell.com/trends/ecology-evolution/](http://cell.com/trends/ecology-evolution/)
11. Kraft, Nathan J.B., Nathan J. Sanders, James C. Stegen, Marti J. Anderson, Thomas O. Crist, Howard V. Cornell, Mark Vellend, Jonathan M. Chase, Liza S. Comita, Kendi F. Davies, Amy L. Freestone, Susan P. Harrison, Brian D. Inouye, **Jonathan A. Myers** & Nathan G. Swenson. 2012. Response to Comments on “Disentangling the drivers of  $\beta$ -diversity along latitudinal and elevational gradients.” *Science* 335: 1573.
10. Gagnon, Paul R., Kyle E. Harms, William J. Platt, Heather A. Passmore & **Jonathan A. Myers**. 2012. Small-Scale variation in fuel loads differentially affects two co-dominant bunchgrasses in a species-rich pine savanna. *PLoS ONE* 7: e29674.
9. Kraft, Nathan J.B., Liza S. Comita, Jonathan M. Chase, Nathan J. Sanders, Nathan G. Swenson, Thomas O. Crist, James C. Stegen, Mark Vellend, Brad Boyle, Marti J. Anderson, Howard V. Cornell, Kendi F. Davies, Amy L. Freestone, Brian D. Inouye, Susan P. Harrison & **Jonathan A. Myers**. 2011. Disentangling the drivers of  $\beta$ -diversity along latitudinal and elevational gradients. *Science* 333: 1755-1758.
  - **Cover Article:** [sciencemag.org/content/333/6050.cover-expansion](http://sciencemag.org/content/333/6050.cover-expansion)
  - **Highlighted in:** Friedman-Rudovsky, Jean. 2012. Taking the Measure of Madidi. *Science* 337: 285-287 (pg. 286).
8. Chase, Jonathan M. & **Jonathan A. Myers**. 2011. Disentangling the importance of ecological niches from stochastic processes across scales. *Philosophical Transactions of the Royal Society B* 366: 2351-2363.
  - **Invited Paper for Species Issue:** Biogeography and Ecology – Two Views of One World
7. **Myers, Jonathan A.** & Kyle E. Harms. 2011. Seed arrival and ecological filters interact to assemble high-diversity plant communities. *Ecology* 92: 676-686.
  - **Highlighted in:** Noss, R. F. 2013. *Forgotten Grasslands of the South: Natural History and Conservation*. Island Press (pp. 102-103)
6. Gagnon, Paul R., Heather A. Passmore, William J. Platt, **Jonathan A. Myers**, C.E. Timothy Paine & Kyle E. Harms. 2010. Does pyrogenicity protect burning plants? *Ecology* 91: 3481-3486.
  - **Cover Article:** [esajournals.org/toc/ecol/91/12](http://esajournals.org/toc/ecol/91/12)
  - **Concepts & Synthesis Paper**
5. **Myers, Jonathan A.** & Kyle E. Harms. 2009. Seed arrival, ecological filters, and plant species richness: A meta-analysis. *Ecology Letters* 12: 1250-1260.
  - **Review & Synthesis Paper**
4. **Myers, Jonathan A.** & Kyle E. Harms. 2009. Local immigration, competition from dominant guilds, and the ecological assembly of high-diversity pine savannas. *Ecology* 90: 2745-54.

3. **Myers, Jonathan A.** & Kaoru Kitajima. 2007. Carbohydrate storage enhances seedling shade and stress tolerance in a neotropical forest. *Journal of Ecology* 95: 383-395.
  - **Recommended by the Faculty of 1000:** f1000.com/prime/1091490
2. **Myers, Jonathan A.**, Mark Vellend, Sana Gardescu & Peter L. Marks. 2004. Seed dispersal by white-tailed deer: Implications for long-distance dispersal, invasion, and migration in eastern North America. *Oecologia* 139: 35-44.
1. Vellend, Mark, **Jonathan A. Myers**, Sana Gardescu & Peter L. Marks. 2003. Dispersal of *Trillium* seeds by deer: Implications for long-distance migration of forest herbs. *Ecology* 84: 1067-1072.
  - **News Coverage:** "Dispersing seeds is newly discovered role for deer -- except the plants often are noxious weeds", Cornell Chronicle, Published Jul. 31, 2003

### Book Chapters

2. Kirkman, L. Katherine & **Jonathan A. Myers**. 2017. Mechanistic controls of community assembly and biodiversity in longleaf pine ecosystems. Chapter 5 *In:* Kirkman, L. Katherine L. & Steven B. Jack (editors) **Ecological Restoration and Management of Longleaf Pine Forests**. CRC Press, Boca Raton.
1. Kitajima, Kaoru & **Jonathan A. Myers**. 2008. Seedling ecophysiology: Strategies towards achievement of positive net carbon balance. Chapter 8 *In:* Leck, Mary A., V. Thomas Parker & Robert L. Simpson (editors) **Seedling Ecology and Evolution**. Cambridge University Press, Cambridge.

### Research Reports

1. Wade, Gary L., **Jonathan A. Myers**, Cecilia R. Martin, Kathie Detmar, William Mator, Mark J. Twery & Michael Rechlin. 2003. Vascular plant species of the forest ecology research and demonstration area, Paul Smith's, New York. *USDA Forest Service, Northeastern Research Station Research Note*, Newton Square, PA.

### Teaching Publications

1. Fisher, Joshua B., Sean Sweeney, Edward R. Brzostek, Tom P. Evans, Daniel J. Johnson, **Jonathan A. Myers**, Norman A. Bourg, Amy T. Wolf, Robert W. Howe & Richard P. Phillips. 2016. What kind of fungus are you? *Science Journal of Kids (SJ4K)*, November 2016. <http://www.sciencejournalforkids.org/what-kind-of-fungus-are-you.html>

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### Grants (Current & former members of my research group in red)

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#### 2012–Present

- National Science Foundation – Division of Environmental Biology, Population & Community Ecology Program, *Integrating species traits into species pools: A multi-scale approach to understanding community assembly*, DEB 1557094, **PI Jonathan A. Myers & Co-PI Marko J. Spasojevic** (U. California-Riverside); \$758,675
- National Science Foundation – Division of Environmental Biology, Population & Community Ecology Program, *EAGER: Disentangling the effects of ecological clade sorting and adaptive diversification to the assembly of regional biotas*. PI Sebastian Tello (Missouri Botanical Garden) & Co-PIs Christine E. Edwards (Missouri Botanical Garden), **Jonathan A. Myers**, Stephen A. Smith (U. Michigan) & Amy E. Zanne (George Washington U.), DEB 1836353; \$199,995 (all funds awarded to the Missouri Botanical Garden)

- Living Earth Collaborative Working Group Grant, Washington University in St. Louis – *A synthesis of patterns and mechanisms of diversity and change in the Andes: A global biodiversity hotspot*, PIs Sebastián Tello (Missouri Botanical Garden), **Jonathan A. Myers** & Selene Báez (Escuela Politécnica Nacional del Ecuador); \$29,975 2018–2019
- Tyson Research Center Faculty Seed Grant for Collaborative Research, *Chemical characterization of biomass burning emissions from prescribed fires*, PI Brent Williams (Dept. of Energy, Environmental and Chemical Engineering) & **Co-PI Jonathan A. Myers**; \$20,000 (\$10,000 to Co-PI Myers) 2017–2018
- National Science Foundation – Division of Environmental Biology, Population & Community Ecology Program, *Collaborative Research: Disturbance and productivity as drivers of plant-pollinator diversity and function across scales*, Lead PI Laura A. Burke (Montana State U.) & Co-PI Russel T. Belote (The Wilderness Society) (awarded DEB 1256819) & **collaborating PI Jonathan A. Myers** (awarded DEB 1256788); \$700,000 total for the two separate collaborative awards (\$77,938 to Washington U.) 2013–2017
- National Science Foundation – Division of Environmental Biology, Population & Community Ecology Program, *Collaborative Research: Diversity, dominance and disturbance in species-rich pine savanna groundcover*, Lead PI Kyle E. Harms (Louisiana State U.) & **Co-PI Jonathan A. Myers** (awarded DEB 1144084) & collaborating PI Paul R. Gagnon (Murray State U.; awarded DEB 1144079); \$530,000 total for the two separate collaborative awards (\$38,379 to Washington U.) 2012–2016
- International Center for Advanced Renewal Energy and Sustainability (I-CARES), Washington University in St. Louis – *From the Andes to the Amazon: Climate change and tropical forest dynamics along a large-scale elevational gradient in Madidi National Park, Bolivia*, **PI Jonathan A. Myers** & Co-PIs Peter M. Jørgensen, Iván Jiménez, J. Sebastián Tello, Laia Andreu Hayles, Leslie Cayola, Alfredo Fuentes & Rosa Isela Meneses; \$32,000 2015–2016
- Smithsonian Institution Center for Tropical Forest Science-Forest Global Earth Observatory (CTFS-ForestGEO) Grants Program – *Investigating the influence of regional functional diversity on local community assembly across a temperate biodiversity gradient*, **PIs Marko J. Spasojevic & Jonathan A. Myers**; \$13,400 2013–2015
- International Center for Advanced Renewal Energy and Sustainability (I-CARES), Washington University in St. Louis – *The Tyson Research Center Forest Drought Laboratory: Establishing a long-term resource for linking climate change, extreme droughts, and ecosystem dynamics*, **PI Jonathan A. Myers** & Co-PIs Amy E. Zanne, Brad Oberle & Sean M. McMahon; \$43,000 2013–2014

### Other Grants (Prior to 2012)

- Torrey Botanical Society Graduate Student Research Fellowship (\$2000) 2008
- Louisiana Office of Environmental Education Research Grants (\$2000) 2007–2008
- McDaniel Travel Award, Dept. of Biological Sciences, LSU (\$1000) 2008
- Sigma Xi Grant-in-Aid, LSU Chapter (\$500) 2007

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### News Articles & Popular Press

- EurekAlert!, "*Inequality is normal: Dominance of the big trees*", Published May 8, 2018: [https://www.eurekalert.org/pub\\_releases/2018-05/sje-iin050818.php](https://www.eurekalert.org/pub_releases/2018-05/sje-iin050818.php) 2018
- St. Louis Public Radio, "*Researchers say tick numbers related to local terrain*", Published May 4, 2018: <http://news.stlpublicradio.org/post/researchers-say-tick-> 2018

- numbers-related-local-terrain#stream/0
- Inside Science, "*Explaining Tropical Forests' Astonishing Biodiversity*", 2017  
Published Oct. 12, 2017; <https://www.insidescience.org/news/explaining-tropical-forests-astonishing-biodiversity>
  - Smithsonian Magazine, "*Why do we see more species in tropical forests? The mystery may finally be solved*", 2017  
Published Jul. 6, 2017; <https://www.smithsonianmag.com/science-nature/why-do-we-see-more-species-tropical-forests-mystery-may-finally-be-solved-180963974/>
  - Smithsonian News Desk, "*Is This the Long-Sought Answer to the Question of Tropical Biodiversity?*", 2017  
Published Jun. 29, 2017; <http://newsdesk.si.edu/releases/long-sought-answer-question-tropical-biodiversity>
  - Washington University Newsroom, "*Global forest network cracks the case of tropical biodiversity*", 2017  
Published Jun. 29, 2017; <https://source.wustl.edu/2017/06/global-forest-network-cracks-case-tropical-biodiversity/>
  - St. Louis Public Radio, "*Scientists to burn Ozark forest to see if fire creates better places for wildlife to live*", 2017  
Published Jan. 22, 2017; <http://news.stlpublicradio.org/post/scientists-burn-ozark-forest-see-if-fire-creates-better-places-wildlife-live>
  - Smithsonian News Desk, "*Satellites Detect the Healthy Glow of a Forest with Underground Friends*", 2016  
Published May 2, 2016; <http://newsdesk.si.edu/releases/satellites-detect-healthy-glow-forest-underground-friends>
  - NASA Earth Science News, "*NASA Satellite Images Uncover Underground Forest Fungi*", 2016  
Published Mar. 31, 2016; <http://www.jpl.nasa.gov/news/>
  - Missouri Botanical Garden Bulletin, "*Climate Change Study in Tropics and the Garden*", Volume 104, Issue 1 2015
  - Smithsonian News Desk, "*If Trees Could Talk: Forest Research Network Reveals Global Change Effects*", 2014  
Published Sep. 26, 2014; <http://newsdesk.si.edu/releases/if-trees-could-talk-forest-research-network-reveals-global-change-effects>
  - St. Louis Post-Dispatch, "*60-acre forest near Eureka joins Smithsonian survey on climate change*", 2014  
Published Jan. 8, 2014; <http://www.stltoday.com/news/>
  - Washington University Newsroom, "*Tyson designated an Earth Observatory*", 2013  
Published Dec. 4, 2013; <https://source.wustl.edu/2013/12/tyson-designated-an-earth-observatory/>
  - Center for Tropical Forest Science Blog, "*Tyson Research Center Plot joins CTFS-ForestGEO and expands the network to 52 plots worldwide*", 2013  
Published Nov. 15, 2013; <http://ctfsnews.blogspot.com/2013/11/tyson-research-center-plot-joins-ctfs.html>

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## Awards, Honors & Other Recognition

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### Invited Participant in Working Groups & Workshops

- Invited workshop participant – *Fire ecology research priorities across space and time*, 2017  
Future of Fire Workshop, Boulder, Colorado
- Invited workshop participant – *Integrating functional, phylogenetic and genetic components of diversity for an improved understanding of forest structure, dynamics, and change*, 2017  
Smithsonian CTFS-ForestGEO & Chinese Forest Biodiversity Monitoring Network Analytical Workshop, Rio Grande, Puerto Rico
- Invited workshop participant – *Integrating functional, phylogenetic and genetic components of diversity for an improved understanding of forest structure, dynamics, and change*, 2016  
Smithsonian CTFS-ForestGEO, Chinese Academy of Forestry and Chinese Academy of Sciences Analytical Workshop, Hainan Island, China



- Invited workshop participant – *Diversity and forest change - Characterizing functional, phylogenetic and genetic contributions to diversity gradients and dynamics in tree communities*, Smithsonian CTFS-ForestGEO & Chinese Forest Biodiversity Monitoring Network (CForBio) Analytical Workshop, Gamboa, Panama (workshop attended by Tyson post-doc Marko J. Spasojevic) 2015
- Invited workshop participant – *Temperate Forests: Model systems for studying global change*, Smithsonian CTFS-ForestGEO Temperate Forest Program Meeting (Edgewater, MD) & Symposium (Washington, D.C.) 2015
- Invited workshop participant – *Diversity and forest change - Characterizing functional, phylogenetic and genetic contributions to diversity gradients and dynamics in tree communities*, Smithsonian CTFS-ForestGEO & CForBio Analytical Workshop, Xishuangbanna Tropical Botanical Garden, Xishuangbanna, China 2014
- Invited working group participant – *A synthesis of patterns, analyses, and mechanisms of beta-diversity along ecological gradients*, National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA 2010

### Awards & Honors

- Graduate Faculty Scholar, University of Central Florida (appointed to serve as external member of Ph.D. thesis committee) 2014–present
- Recognition for Excellence in Mentoring, Washington University Graduate Student Senate 2014
- C.W. Edgerton Award for Excellence in Plant Biology Research, LSU 2010
- Best Talk Award, Biological Sciences Graduate Student Symposium, LSU 2008, 2009
- Ellinor H. Behre Prize in Science Writing, Sigma-Xi, LSU Chapter 2006
- High Honors, Biological Sciences Honors Research Program, Cornell University 2002
- Cornell Tradition Fellowship, Cornell University 2000
- Most Outstanding Graduate Award, Paul Smith's College 1999
- Forestry Division Achievement Award, Paul Smith's College 1999
- William S. Sullivan Memorial Scholarship, Paul Smith's College 1997

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## Mentoring at Washington University

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### Post-doctoral Researchers Supervised

Joseph A. LaManna– Tyson Postdoctoral Fellow, 2015–2018

Research emphasis: *Biotic interactions & community assembly across trophic levels*

Current position: Assistant Professor, Dept. of Biological Sciences, Marquette University, WI

Marko J. Spasojevic – Tyson Postdoctoral Fellow, 2013–2015

Research emphasis: *Ecological consequences of plant functional diversity across scales*

Current position: Assistant Professor, Department of Evolution, Ecology and Organismal Biology, University of California-Riverside, CA

### Research Technicians Supervised (11 total)

Aaron Steinberg – Seasonal Ecology Technician, 2016

Becky Roper – Ecology Technician, 2016–2017

Benjamin Chase – Seasonal Ecology Technician, 2017–2018

Brett Decker – Seasonal Ecology Technician, 2012

Edgar Javier Hernandez – Seasonal Ecology Technician, 2013

Jennifer Kidson – Seasonal Ecology Technician, 2013

Jocelyn Frazelle – Seasonal Ecology Technician, 2016

Maranda Walton – Ecology Technician, 2013–2016

Michael Lehmann – Seasonal Ecology Technician, 2017  
Race Stryker – Seasonal Ecology Technician, 2018  
Sera Holland – Seasonal Ecology Technician, 2018

### **Current Graduate Students Supervised for Ph.D. Theses**

Christopher P. Catano – Ph.D. student, 2014–Present; Awards – Tyson Research Center Graduate Student Award (2015); Thesis: *Environmental change,  $\beta$ -diversity, and the stability of regional ecosystems*  
Dilys Vela Díaz – Ph.D. student, 2013–Present; Awards – William H. Danforth Plant Sciences Fellowship (4 years); Thesis: *Ecological niche-assembly mechanisms as a driver of species diversity and relative abundance in temperate and tropical forests*

### **Previous Graduate Students Supervised for Ph.D. Theses**

Emma Moran – Ph.D. student, 2012–2016 (co-advised with Tiffany Knight);  
Thesis: *Beta-diversity patterns and community assembly across latitudes*

### **Graduate Students Supervised for Research Rotations**

Rachel Becknell – Rotating Ph.D. student, Spring 2016  
Vincent J. Fasanello – Rotating Ph.D. student, Fall 2015  
James Lucas – Rotating Ph.D. student, Summer 2017  
Marshall Wedger – Rotating Ph.D. student, Fall 2016

### **Graduate Student Committees (15 total)**

#### Current, at Washington University

Katherine Geist (Evolution, Ecology & Population Biology)  
Rachel Becknell (Evolution, Ecology & Population Biology)  
Rachel Lyman (Evolution, Ecology & Population Biology)  
Sara Wright (Evolution, Ecology & Population Biology)  
Vincent Fasanello (Evolution, Ecology & Population Biology)

#### Current, at Institutions other than Washington University

Jason Schroeder – Ph.D. advisee of David Jenkins, University of Central Florida, Orlando, FL

#### Previous

Boahemaa Adu-Oppong – Ph.D. awarded 2017 (Evolution, Ecology & Population Biology)  
Holly Bernardo – Ph.D. awarded 2018 (Evolution, Ecology & Population Biology)  
Erica Pehrsson – Ph.D. awarded 2015 (Computational & Systems Biology)  
Jennifer Gruhn – Ph.D. awarded 2016 (Evolution, Ecology & Population Biology)  
Molly Gibson – Ph.D. awarded 2015 (Computational & Systems Biology)  
Nicholas Kooyers – Ph.D. awarded 2013 (Evolution, Ecology & Population Biology)  
Kristin Powell – Ph.D. awarded 2013 (Evolution, Ecology & Population Biology)  
Lauren Woods – Ph.D. awarded 2014 (Evolution, Ecology & Population Biology)  
Matthew Schuler – Ph.D. awarded 2015 (Evolution, Ecology & Population Biology)

### **Undergraduate Students Supervised (42 total students from 9 universities)**

\*Tyson Research Center Summer Undergraduate Research Fellow

#### Students Supervised for Honors Thesis Research

\*Amal Al-Lozi (2011–2012) – Major: Environmental Biology; Thesis: *Unraveling mechanisms of recruitment limitation in temperate forest seedling communities*; Awards: Lennette Fellowship in Environmental Field Research; Current position: Medical student, University of Missouri-Columbia

- \*Ashley Knudson (2014–2017; 7 semesters); Major: Environmental Biology; Thesis: *Biodiversity-ecosystem function relationships are mediated by the environment and functional trait assembly*; Awards: Washington University Biology Summer Undergraduate Research Fellowship (BioSURF); Current position: Ecology research technician, Michigan State University
- \*Elizabeth Yablon (2012–2013) – Major: Environmental Studies (Biology / Ecology Track); Thesis: *Functional traits, environmental gradients and community assembly in a temperate forest*; Current position: PhD student, Plant Biology Program, Michigan State University
- \*Emily Dewald-Wang (Fall 2016 – Spring 2019; 8 semesters) – Major: Environmental Biology; Thesis: *Plant chemical defenses, density dependence, and biodiversity in temperate forests*; Awards: Lennette Fellowship in Environmental Field Research

#### Students Supervised for Non-Thesis Research

- \*Alexandra Porter – Computer Engineering Major (Summer 2015, Summer 2016)
- \*Alison Palmer – Environmental Biology Major (Summer 2015)
- \*Anna Liang – Environmental Biology Major (Summer 2013)
- \*Arden Brewer – Biology and Political Science Major (Summer 2018)
- \*Emma Waltman – Biology Major (Ecology / Evolution Track) (Summer 2017)
- \*Emily Wen – Environmental Biology Major (Spring 2014, Summer 2014)
- \*Evan Alger-Meyer – Geology Major (Summer 2015)
- \*Diana Jerome – Environmental Biology Major (Summer 2015)
- \*Iris Seto – Environmental Biology Major (Summer 2016)
- \*Jacob Amme – Biology Major (Summer 2018)
- \*Jacqueline Reu – Environmental Biology Major (Fall 2016, Spring 2017, Summer 2017, Fall 2017, Fall 2018)
- \*Jacqueline Treiger – Environmental Biology Major (Summer 2013)
- \*Jamal Gaddis – Environmental Biology Major (Summer 2014)
- \*Jaron Cook – Environmental Earth Science Major (Summer 2016)
- \*Katherine Harline – Biology Major (Fall 2013, Spring Summer & Fall 2014)
- \*Kristen Riedinger – Chemistry Major (Summer 2018)
- \*Liam Engel – Biology Major (Ecology / Evolution Track) (Summer 2017)
- \*Madeline Salzman – Environmental Studies Major (Biology / Ecology Track) (Summer 2011)
- \*Mariel Lutz – Environmental Biology Major (Summer 2017)
- \*Mary Gardner – Environmental Biology Major; Lennette Fellowship in Environmental Field Research (Spring 2014, Summer 2014)
- \*Maya Samuels-Fair – Environmental Biology Major (Summer 2017, Spring 2018, Fall 2018)
- \*Micaela Hyams – Environmental Biology Major; Lennette Fellowship in Environmental Field Research (Summer 2013)
- \*Michael Gjelsten – Applied Mathematics Major (Summer 2015)
- \*Merrill Rudd – Environmental Studies Major (Biology / Ecology Track) (Summer 2011)
- \*Patricia Chen – Environmental Earth Sciences Major (Summer 2015)
- \*Paul Elliott – Environmental Biology Major (Summer 2018, Fall 2018)
- \*Saransh Gothi – Environmental Biology Major (Summer 2018)
- \*Vanessa Hensley – Environmental Studies Major (Summer 2012)

#### Students from Institutions other than Washington University Supervised for Summer Research

- \*Adam Vorel – Education Major, Maryville University, St. Louis, MO (2016)
- \*Camila Chiriboga – Biology Major, Missouri State University, Springfield, MO (2016)
- \*Dev Harrington – Ecology, Evolution & Environmental Biology Major, Columbia University, New York, NY (2013, 2014)
- \*Eli Mennerick – Yale University, New Haven, CT (2018)
- \*Eduardo Koerich Nery – Biology Major, Brazil Scientific Mobility Program & Indiana University, Bloomington, IN (2014)

- \*Hayley Huntley – Environmental Policy Major, Southeast Missouri State University, Cape Girardeau, MO (2017)
- \*Maria Weston – Biology Major, Northern Illinois University, DeKalb, IL (2015)
- \*Melanie Grasso – Environmental Science (Biology) Major, Southeast Missouri State University, Cape Girardeau, MO (2018)
- \*Tess Rogers – Ecology, Evolution & Animal Behavior Major, University of Minnesota (2015)
- \*Vincent Spradling – Environmental Studies Major, McKendree University, Lebanon, IL (2016)

### High School Students Supervised for Summer Field Research

(54 total students from 23 high schools in the St. Louis area)

Tyson Environmental Research Fellowship (TERF) Program, Tyson Research Center  
 Adam Vorel (2013–2014), Adil Hassan (2012), Aidan Kelly (2011), Albert Wang (2015), Alexander Duchild (2012), Amy Stimmel (2017), Calvin Schaefer (2016), Ciara Shaffer (2015), Clayton Hillermann (2013–2014), Dasha Malkova (2014), Dev Harrington (2011–2012), Devin Haas (2016), Ellen Sulser (2013–2014), Farhan Hassan (2018), Hannah Barry (2018), Hannah Walkowski (2013–2014), Hayley Huntley (2016), Ishan Singh (2017), Juan Alega (2018), Kelly Mckinley (2010), Kevin Qi (2017), Marie Manzo (2011), Max Margherio (2010), Mya Miranda (2016), Paige Waskow (2017), Thomas Hogancamp (2012), Vlada Gladun (2018), Zach Rhodes (2011)

Shaw Institute for Field Training (SIFT) Program, Missouri Botanical Garden  
 Amy Stimmel (2016), Bailee Warsing (2014), Ben Difani (2013), Carly Steffan (2013), Chris Dye (2013), Ciara Shaffer (2014), Dasha Malkova (2013), Elizabeth King (2012), Esha Sharma (2016), Genesis Dancer (2016), Hank McCrimmon (2013), Hannah Kruse (2012), Hannah Walkowski (2012), Hiba Al-Ramahi (2016), Jamielee Buenemann (2012), Jenita Larry (2014), Johannes Schrader (2012), Jonathan Winkler (2012), Katie Buatois (2014), Kyle Lang (2013), Lexie Beckermann (2014), Matilda Workman (2014), Megan Kerr (2014), Michaela Quist (2013), Nicole Wang (2016), Owen Kathriner (2016), Peter Volmert (2013), Suraj Puvvada (2012), Xihu He (2014)

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## Teaching at Washington University

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### Courses Taught

Course	Role	Semester
R Workshop in Biology (Bio 3100), 1 unit (2 sections)	Course master: 39 students (34 undergraduates, 5 graduate students)	Fall 2018
Community Ecology (Bio 419), 3 units	Course master: 21 students (20 undergraduates, 1 graduate student)	Spring 2018
R Workshop in Biology (Bio 3100), 1 unit (2 sections)	Course master: 29 undergraduate students	Fall 2017
Community Ecology (Bio 419), 3 units	Course master: 18 students (12 undergraduates, 6 graduate students)	Spring 2017
R Workshop in Biology (Bio 3100), 1 unit	Course master: 23 undergraduate students	Fall 2016
Community Ecology (Bio 419), 3 units	Course master: 15 students (9 undergraduates, 6 graduate students)	Spring 2016
Seminar in Ecology (Bio 580), 1 unit	Course master (with Scott Mangan): 10 graduate students	Spring 2016
R Workshop in Biology (Bio 3100), 1 unit	Course master: 19 undergraduate students	Fall 2015

Community Ecology (Bio 419), 4 units	Course master: 11 students (9 undergraduates, 2 graduate students)	Spring 2015
Practical Skills in Environmental Biology Research (Bio 393), 2 units	Course master (with Scott Mangan): 6 undergraduate students	Spring 2015
R Workshop in Biology (Bio 493), 1 unit	Course master: 7 students (5 undergraduates, 2 graduate students)	Fall 2014
Community Ecology (Bio 419), 3 units	Course master: 19 students (15 undergraduates, 4 graduate students)	Spring 2014

**Invited Speaker**

Course	Semester (Number of Students)
Freshman Seminar in Biology (Bio 181)	Fall 2013 (50), Fall 2014 (41), Fall 2015 (41), Fall 2016 (50), Fall 2017 (30)
Seminar for first-year students in the Honorary Scholars "CMML" (Compton, Mylonas, Moog & Lien) Program in Arts & Sciences	Spring 2017 (12)
Practical Skills in Environmental Biology Research (Bio 393)	Spring 2013 (6)
The Tyson Seminar: Grounding Research in Nature (Freshman Seminar – GeSt 160)	Fall 2012 (10), Fall 2013 (16), Fall 2014 (9)

**Invited Presentations & Seminars (24 total)**

- University of Maryland, College Park, MD (Behavior, Ecology, Evolution and Systematics [BEES] Seminar Series) (scheduled for Nov. 2018) 2018
- University of Illinois at Urbana-Champaign, Urbana, IL (Program in Ecology, Evolution & Conservation Biology [PEEC]) 2018
- Missouri University of Science and Technology, Rolla, MO (Dept. of Biological Sciences) 2018
- University of Kansas, Lawrence, KS (Ecology Seminar Series) 2017
- Missouri Botanical Garden, St. Louis, MO (64th Annual Fall Symposium – Next Generation Biology: From Species to Ecosystems) 2017
- Smithsonian CTFS-ForestGEO Analytical Workshop, Rio Grande, Puerto Rico 2017
- University of Georgia, Odum School of Ecology, Athens, GA 2016
- Clemson University, Clemson, SC (Dept. of Biological Sciences) 2016
- Smithsonian CTFS-ForestGEO, Chinese Academy of Forestry & Chinese Academy of Sciences Analytical Workshop, Hainan Island, China 2016
- University of Missouri, St. Louis, MO (BioLunch Seminar Series) 2015
- University of Missouri, Columbia, MO (Forestry, Fisheries & Wildlife Seminar Series) 2015
- Missouri Native Plant Society, St. Louis, MO 2015
- Smithsonian CTFS-ForestGEO & Chinese Forest Biodiversity Monitoring Network (CForBio) Analytical Workshop, Xishuangbanna Tropical Botanical Garden, Xishuangbanna, China 2014
- Montana State University, Bozeman, MT (Dept. of Ecology) 2013
- Southern Illinois University, Edwardsville, IL (Dept. of Biological Sciences) 2013
- University of Missouri, St. Louis, MO (Biology Dept.) 2013
- Saint Louis University, St. Louis, MO (Dept. of Biology) 2013
- Murray State University, Murray, KY (Dept. of Biological Sciences) 2012
- Tyson Research Center, Eureka, MO (Washington University Plant Biology Retreat) 2012

- University of Missouri, Columbia, MO (Division of Biological Sciences, Evolutionary Biology & Ecology Series) 2011
- Washington University in St. Louis, MO (Dept. of Biology) 2011
- Washington University in St. Louis, MO (Dept. of Biology) 2009
- Louisiana State University, Baton Rouge, LA (Sigma Xi Seminar) 2008
- Smithsonian Tropical Research Institute, Panama (Barro Colorado Island Seminar) 2003

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### Presentations at Local, National & International Meetings

(57 total; current & former members of my research group in **red**; \*undergraduate student)

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#### National & International Meetings

- Tello, J. Sebastián, Selene Báez, **Jonathan A. Myers**, Alfredo Fuentes & Leslie Cayola. 2018  
Do mortality and recruitment rates in Andean forests change with time and productivity? **XII Congreso Latinoamericano de Botánica**, Quito, Ecuador (scheduled for Oct. 2018) (talk)
- Myers, Jonathan A.**, Kyle E. Harms, Paul R. Gagnon & **Joseph A. LaManna**. Species sorting overrides the importance of competition from dominant species in hyperdiverse communities. **Ecological Society of America 103rd Annual Meeting**, New Orleans, LA. **Invited talk** for Organized Session: "Examining the Role of Spatial Variation in Maintaining Plant Community Diversity" 2018
- Catano, Christopher P.**, Trevor S. Fristoe, **Joseph A. LaManna** & **Jonathan A. Myers**. Species turnover and environmental heterogeneity increase stability of regional ecosystems. **Ecological Society of America 103rd Annual Meeting**, New Orleans, LA. (talk) 2018
- Dilys M. Vela Díaz**, Leslie Cayola, Alfredo F. Fuentes, Lucio R. Malizia, Cecilia Blundo & **Jonathan A. Myers**. Niche breadth and niche position explain species occupancy and abundance across large-scale diversity gradients. **Ecological Society of America 103rd Annual Meeting**, New Orleans, LA. (poster) 2018
- Myers, Jonathan A. Myers, Joseph A. LaManna, Scott A. Mangan**, and The Center for Tropical Forest Science-Forest Global Earth Observatory (CTFS-ForestGEO) Network (69 total authors). Differing strengths of density dependence between arbuscular mycorrhizal and ectomycorrhizal tree species do not explain the latitudinal diversity gradient. 55th Annual Meeting of the Association of the Tropical Biology and Conservation Meeting, Kuching, Sarawak, Malaysia (talk) 2018
- Catano, Christopher P.**, \***Ashley J. Knudson, Marko J. Spasojevic & Jonathan A. Myers**. Deterministic community assembly increases with productivity and is mediated by community size. **Missouri Botanical Garden 64th Annual Fall Symposium**, St. Louis, MO (poster) 2017
- Catano, Christopher P.**, \***Ashley J. Knudson, Marko J. Spasojevic & Jonathan A. Myers**. Species and functional beta-diversity reveal shifts in the strength of community assembly processes across a productivity gradient. **Ecological Society of America 102nd Annual Meeting**, Portland, OR (talk) 2017
- \***Knudson, Ashley J., Christopher P. Catano & Jonathan A. Myers**. Biodiversity-ecosystem function relationships are mediated by the environment and functional trait assembly. **Ecological Society of America 102nd Annual Meeting**, Portland, OR (poster) 2017
- LaManna, Joseph A.**, Scott A. Mangan, **Dilys Vela Díaz, Jonathan A. Myers et al.** (50 total authors including 46 collaborators from the Smithsonian ForestGEO Network). Negative density dependence contributes to global patterns of plant biodiversity. **Ecological Society of America 102nd Annual Meeting**, Portland, OR (talk) 2017

- Dang, Audrey, Michael Walker, Claire Fortenberry, Christopher Oxford, Benjamin Sumlin, Jiayu Li, **Jonathan Myers** & Brent Williams. Chemical speciation of biomass burning aerosol collected above and below the forest canopy with an unmanned aerial vehicle during prescribed fires. **American Association for Aerosol Research 36th Annual Conference**, Raleigh, NC (poster) 2017
- Burkle, Laura A., **Joseph A. LaManna**, R. Travis Belote & **Jonathan A. Myers**. Evaluating the effects of wildfire on pollinator diversity and their interactions with plants across landscapes in the Northern Rockies. **XXV International Congress of Entomology / Entomological Society of America Annual Meeting**, Orlando, FL. **Invited talk** for Organized Session: "*Insects and Landscape Ecology: Defining an Entomological Perspective*". 2016
- Vela Díaz, Dilys M., Marko J. Spasojevic**, James W. Dalling, Sean M. McMahon, Benjamin L. Turner, **Joseph A. LaManna, Jonathan A. Myers et al.** (34 total authors including 27 collaborators from the Smithsonian ForestGEO Network). MacArthur's niche hypotheses revisited: the role of niche space, niche breadth and niche overlap in explaining global patterns of species diversity. **53<sup>rd</sup> Annual Meeting of the Association for Tropical Biology and Conservation**, Montpellier, France (poster) 2016
- LaManna, Joseph A., Maranda L. Walton**, Benjamin L. Turner & **Jonathan A. Myers**. Negative density dependence is stronger in resource-rich environments and diversifies communities when stronger for common but not rare species. **Ecological Society of America 101st Annual Meeting**, Fort Lauderdale, FL (talk) 2016
- Myers, Jonathan A.**, Kyle E. Harms & Paul R. Gagnon. Species sorting trumps the importance of local species interactions in the assembly of hyperdiverse communities. **British Ecological Society Meeting**, Edinburgh, Scotland (talk) 2015
- Myers, Jonathan A.**, Laura A. Burkle & R. Travis Belote. Regional species pools interact with local community assembly mechanisms to shape plant and pollinator beta-diversity across wildfire-disturbance gradients. **Ecological Society of America 100th Annual Meeting**, Baltimore, MD (talk) 2015
- Spasojevic, Marko J.**, James A. Lutz, Sean M. McMahon, Andrew L. Larson, Geoffrey G. Parker, Benjamin L. Turner, **Christopher P. Catano, Dilys Vela Díaz & Jonathan A. Myers**. Species pool functional diversity and environmental heterogeneity jointly influence beta-diversity in temperate forests. **Ecological Society of America 100th Annual Meeting**, Baltimore, MD (talk) 2015
- Catano, Christopher P.**, Timothy L. Dickson & **Jonathan A. Myers**. Disturbance and dispersal as drivers of beta-diversity: A synthesis of experiments. **Ecological Society of America 100th Annual Meeting**, Baltimore, MD (talk) 2015
- Johnson, Daniel, **Jonathan A. Myers**, Richard P. Phillips & Keith Clay. Role of mycorrhizal associations in structuring forest communities across environmental and climatic gradients. **Ecological Society of America 100th Annual Meeting**, Baltimore, MD. **Invited talk** for Organized Session: "Functional, Phylogenetic and Genetic Dimensions of Forest Diversity and Change". 2015
- Spasojevic, Marko J. & Jonathan A. Myers**. Does intraspecific trait variation mediate the relative importance of selection, drift, and dispersal as drivers of beta-diversity? **Ecological Society of America 99th Annual Meeting**, Sacramento, CA (talk) 2014
- Burkle, Laura, R. Travis Belote & **Jonathan A. Myers**. Responses of plant and pollinator biodiversity to wildfires across a productivity gradient in the Northern Rockies. **Ecological Society of America 99th Annual Meeting**, Sacramento, CA (talk) 2014

- Tello, J. Sebastián, Iván Jiménez, Peter Jørgensen, M. Isabel Loza-Rivera, **Jonathan A. Myers**, Manuel J. Macía, Alfredo F. Fuentes-Claros, Leslie Cayola-Pérez, Gabriel Arellano, Maritza Cornejo-Mejía & Vania W. Torrez. The evolutionary and ecological assembly of a tropical flora along an elevational gradient in the Andes. **Missouri Botanical Garden 60<sup>th</sup> Annual Fall Symposium – Phylogeny Meets Ecology: Patterns of Diversity, Community Assembly, and Niche Evolution**, St. Louis, MO (talk) 2013
- Milo, Amy M., Brad Oberle, **Jonathan A. Myers**, Darcy F. Young & Amy E. Zanne. Patterns of fine scale deadwood distribution in an Ozark Highlands forest. **Ecological Society of America 98th Annual Meeting**, Minneapolis, MN (poster) 2013
- Myers, Jonathan A.**, Juan S. Tello, Peter M. Jørgensen, Alejandro Araujo-Murakami, Leslie Cayola-Pérez, Maritza Cornejo-Mejía, Alfredo F. Fuentes-Claros & M. Isabel Loza-Rivera. Untangling determinism and stochasticity within local species neighborhoods across a tropical biodiversity gradient. **Association for Tropical Biology & Conservation Meeting**, San José, Costa Rica (talk) 2013
- Tello, Juan S., Iván Jiménez, Peter M. Jørgensen, **Jonathan A. Myers**, Manuel J. Macia, Alfredo F. Fuentes-Claros, Leslie Cayola-Pérez, Gabriel Arellano, Maritza Cornejo-Mejía, M. Isabel Loza-Rivera, Javier Quisbert-Quispe & Vania W. Torrez. Elevational gradients in beta-diversity reflect both regional effects and scale-dependent variation in the strength of local assembly processes. **Association for Tropical Biology & Conservation Meeting**, San José, Costa Rica (talk) 2013
- \***Al-Lozi, Amal & Jonathan A. Myers**. Unraveling the roles of dispersal limitation and a dominant herbivore on seedling diversity and dynamics in temperate forests. **Ecological Society of America 97th Annual Meeting**, Portland, OR (poster) 2012
- Davies, Kendi F. *et al.* (>20 total authors including **Jonathan A. Myers**). Relative influence of deterministic versus stochastic community assembly under increasing productivity. **Ecological Society of America 97th Annual Meeting**, Portland, OR (talk) 2012
- Oberle, Brad, **Jonathan A. Myers**, Juan Carlos Penagos, Jonathan Sweeny, Kiona Ogle & Amy Zanne. Climate change, death, and decomposition: Xylem vessel length influences both mortality and decay among Ozark forest trees. **Ecological Society of America 97th Annual Meeting**, Portland, OR (talk) 2012
- Tello, Juan S., Iván Jiménez, Peter M. Jørgensen, **Jonathan A. Myers**, Manuel J. Macia, Alfredo F. Fuentes-Claros, Leslie Cayola-Pérez, Gabriel Arellano, Maritza Cornejo-Mejía, M. Isabel Loza-Rivera, Javier Quisbert-Quispe & Vania W. Torrez. Beta-diversity, gamma diversity, and community assembly along a tropical elevational gradient. **Ecological Society of America 97th Annual Meeting**, Portland, OR (talk) 2012
- Myers, Jonathan A.**, Jonathan M. Chase, Ivan Jiménez, Peter M. Jørgensen, Renate Seidel, Narel Paniagua & Alejandro Araujo. Disentangling regional, environmental, and spatial influences on beta-diversity in temperate and tropical forests. **Ecological Society of America 96<sup>th</sup> Annual Meeting**, Austin, TX (talk) 2011
- Myers, Jonathan A.**, Jonathan M. Chase, Ivan Jiménez, Peter M. Jørgensen, Renate Seidel, Narel Paniagua & Alejandro Araujo. Disentangling regional, environmental, and spatial influences on beta-diversity in temperate and tropical forests. **Botanical Society of America Conference**, St. Louis, MO (talk) 2011
- Myers, Jonathan A.**, Jonathan M. Chase, Peter M. Jørgensen, Ivan Jiménez, Renate Seidel, Narel Paniagua & Alejandro Araujo. Comparing biogeographical, spatial, and environmental influences on patterns of beta-diversity among temperate and tropical forests. **International Biogeography Society 5<sup>th</sup> Conference**, Crete, Greece (poster) 2011



- Chase, Jonathan M. & **Jonathan A. Myers**. Disentangling the importance of niches for the maintenance of species diversity at local and regional scales amidst a gauntlet of stochastic and biogeographic processes. **International Biogeography Society 5<sup>th</sup> Conference**, Crete, Greece (talk) 2011
- Myers, Jonathan A.** & Kyle E. Harms. Resource-disturbance interactions influence community assembly in high-diversity pine savannas. **Ecological Society of America 95<sup>th</sup> Annual Meeting**, Pittsburgh, PA (talk) 2010
- Myers, Jonathan A.** & Kyle E. Harms. Climate, disturbance, and seed arrival interact to assemble high-diversity pine savanna groundcover communities. **Ecological Society of America 94<sup>th</sup> Annual Meeting**, Albuquerque, NM (talk) 2009
- Gagnon, Paul R., Heather A. Passmore, William J. Platt, **Jonathan A. Myers**, C.E. Timothy Paine & Kyle E. Harms. Flammability as self-protection. **4<sup>th</sup> International Fire Ecology and Management Congress**, Savannah, GA (talk) 2009
- Myers, Jonathan A.** & Kyle E. Harms. Competition and recruitment limitation in high-diversity pine savanna: Mechanistic effects of dominant species. **Ecological Society of America 93<sup>rd</sup> Annual Meeting**, Milwaukee, WI (talk) 2008
- Kitajima, Kaoru & **Jonathan A. Myers**. Role of storage for photosynthetic acclimation and maintenance of carbon balance in seedlings. **Phenotypic Plasticity in Response to Environmental Changes: Scaling from the Molecular to Ecosystem Levels**, Japan 2007
- Passmore, Heather A., Kyle E. Harms, William J. Platt, **Jonathan A. Myers** & Paul R. Gagnon. Influences of fire intensity on vegetation cover and local biodiversity in species-rich pine savanna groundcover. **Ecological Society of America 92<sup>nd</sup> Annual Meeting**, San Jose, CA (poster) 2007
- Myers, Jonathan A.** & Kaoru Kitajima. 2006. Seedling acclimation to dynamic forest light environments: The contributions of carbon storage and carbon gain. **Ecological Society of America 91<sup>st</sup> Annual Meeting**, Memphis, TN (poster) 2006
- Myers, Jonathan A.** & Kaoru Kitajima. Carbohydrate storage enhances seedling shade tolerance and mediates growth-survival tradeoffs in a neotropical forest. **Ecological Society of America 90<sup>th</sup> Annual Meeting**, Montreal, Canada. **Invited talk** for Organized Session: "Comparative Ecology of Tropical Trees: Linking Physiology to Dynamics and Distributions". 2005
- Myers, Jonathan A.** & Kaoru Kitajima. 2004. Carbon allocation to storage as a basis for tradeoffs between seedling growth and survival in a tropical forest. **Ecological Society of America 89<sup>th</sup> Annual Meeting**, Portland, OR (talk) 2004
- Vellend, Mark, **Jonathan A. Myers**, Sana Gardescu & Peter L. Marks. Seed dispersal by white-tailed deer: Implications for long-distance dispersal and plant migrations. **Ecological Society of America 88<sup>th</sup> Annual Meeting**, Savannah, GA (talk) 2003
- Myers, Jonathan A.**, Mark Vellend, Sana Gardescu & Peter L. Marks. Seed dispersal by white-tailed deer. **Northeast Natural History Conference VII**, Albany, NY (talk) 2003
- Twery, Mark J., Gary L. Wade, **Jonathan A. Myers**, Kathie Detmar & William Mattor. A comparison of study techniques for evaluating plant species richness in northern hardwood forests. **Ecological Society of America 86<sup>th</sup> Annual Meeting**, Madison, WI (poster) 2002
- Local Meetings**
- Catano, Christopher P.**, Trevor S. Fristoe, **Joseph A. LaManna** & **Jonathan A. Myers**. Biodiversity across scales and its importance for regional ecosystem stability. **St. Louis Ecology, Evolution & Conservation 8th Annual Retreat**, Maryville University, St. Louis, MO (talk) 2018

- Vela Díaz, Dilys M., Marko J. Spasojevic, Joseph A. LaManna, Jonathan A. Myers et al.** (34 total authors including 27 collaborators from the Smithsonian ForestGEO Network). Local niche-assembly mechanisms influence global patterns of forest biodiversity. **Saint Louis Ecology, Evolution and Conservation 7<sup>th</sup> Annual Retreat**, St. Louis, MO (talk) 2017
- LaManna, Joseph A., Maranda L. Walton, Dilys M. Vela Díaz, Jonathan A. Myers et al.** (51 total authors including 46 collaborators from Smithsonian ForestGEO Network). Negative density dependence, species relative abundance, and diversity-environment relationships across temperate and tropical forests. **Saint Louis Ecology, Evolution and Conservation 6<sup>th</sup> Annual Retreat**, Elsah, IL (talk) 2016
- Vela Díaz, Dilys M., Marko J. Spasojevic, James W. Dalling, Sean M. McMahon, Benjamin L. Turner, Joseph A. LaManna, Jonathan A. Myers et al.** (34 total authors including 27 collaborators from the Smithsonian ForestGEO Network). MacArthur's niche hypotheses revisited: the role of niche space, niche breadth and niche overlap in explaining global patterns of species diversity. **Saint Louis Ecology, Evolution and Conservation 6<sup>th</sup> Annual Retreat**, Elsah, IL (poster) 2016
- Myers, Jonathan A., Peter M. Jørgensen, Iván Jiménez, J. Sebastián Tello, Laia Andreu Hayles, Leslie Cayola, Alfredo Fuentes & Rosa Isela Meneses.** From the Andes to the Amazon: Climate change and tropical forest dynamics along a large-scale elevational gradient in Madidi National Park, Bolivia. **International Center for Advanced Renewable Energy and Sustainability Annual Research Symposium**, Washington University, St. Louis, MO (talk) 2016
- Vela Díaz, Dilys, Marko J. Spasojevic & Jonathan A. Myers.** Ecological niche specialization of temperate and tropical forest trees across large-scale diversity gradients. **Danforth Plant Science Center & Missouri Botanical Garden Joint Symposium – From Darwin to Borlaug: Biocomplexity in Natural and Agricultural Systems**, St. Louis, MO (poster) 2015
- Catano, Christopher P., Timothy L. Dickson & Jonathan A. Myers.** Disturbance and dispersal interactively drive biotic homogenization: A synthesis of experiments. **Saint Louis Ecology, Evolution and Conservation 5<sup>th</sup> Annual Retreat**, St. Louis, MO & **Danforth Plant Science Center & Missouri Botanical Garden Joint Symposium – From Darwin to Borlaug: Biocomplexity in Natural and Agricultural Systems**, St. Louis, MO (2 separate poster presentations) 2015
- LaManna, Joseph. A., Maranda L. Walton & Jonathan A. Myers.** Negative density dependence is stronger in resource-rich environments across species and associated with higher diversity. **Saint Louis Ecology, Evolution and Conservation 5<sup>th</sup> Annual Retreat**, St. Louis, MO & **Danforth Plant Science Center & Missouri Botanical Garden Joint Symposium – From Darwin to Borlaug: Biocomplexity in Natural and Agricultural Systems**, St. Louis, MO (2 separate poster presentations) 2015
- Spasojevic, Marko J. & Jonathan A. Myers.** From the leaf to the continent: Integrating trait variation across scales to understand spatial variation in forest biodiversity. **11th Annual Postdoc Symposium**, Washington University, St. Louis, MO (talk) 2015
- Vela Díaz, Dilys & Jonathan A. Myers.** Patterns of species commonness and rarity in temperate tree communities. **Washington University Plant Biology Retreat**, Tyson Research Center, MO (talk) 2014
- Myers, Jonathan A., Brad Oberle, Sean M. McMahon & Amy E. Zanne.** The Tyson Research Center Forest Drought Laboratory: A resource for interdisciplinary collaborations on climate change, drought, and ecosystem dynamics. **International Center for Advanced Renewable Energy and Sustainability Annual Research Symposium**, Washington University, St. Louis, MO (talk) 2014

- Spasojevic, Marko J., Elizabeth A. Yablon**, Brad Oberle, **Maranda L. Walton**, Amy E. Zanne & **Jonathan A. Myers**. Community assembly mechanisms differ between saplings and adults: The importance of ontogeny in trait-based ecology. **Saint Louis Ecology, Evolution and Conservation 3<sup>rd</sup> Annual Retreat**, St. Louis, MO (poster) 2013
- Myers, Jonathan A.**, Jonathan M. Chase, Ivan Jiménez, Peter M. Jørgensen, Renate Seidel, Narel Paniagua & Alejandro Araujo. Disentangling regional, environmental, and spatial influences on beta-diversity in temperate and tropical forests. **Saint Louis Ecology, Evolution and Conservation 1<sup>st</sup> Annual Retreat**, Saint Louis, MO (talk) 2011

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## Professional Service

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### Invited Member of Editorial Board

- Handling Editor for *Oecologia* (Plant Population and Community Ecology Board), 3-year term (Aug. 2017–Present)

### Invited Member of Grant Review Panels

- Population & Community Ecology (PCE) Panel, National Science Foundation, Washington, D.C. (2016)
- Doctoral Dissertation Improvement Grant (DDIG) Panel, National Science Foundation, Washington, D.C. (2014)

### Reviewer for National & International Granting Agencies (6 invitations accepted)

National Science Foundation – Population & Community Ecology (3); National Science Foundation – Biological Oceanography; Estonian Research Council (ETAg); ETH Zurich Research Commission (Switzerland)

### Ad Hoc Reviewer of Ph.D. Candidates at Academic Institutions (1 invitation accepted)

Ph.D. Dissertation Evaluation, Australia (Institution & date withheld to maintain anonymity)

### Reviewer for 31 Professional Journals (90 invitations accepted)

<i>Acta Oecologia</i>	<i>Ecosphere</i>	<i>Nature Communications</i>
<i>American Naturalist</i> (3)	<i>Functional Ecology</i> (5)	<i>Oecologia</i> (5)
<i>Basic and Applied Ecology</i>	<i>Global Ecology and Biogeography</i> (5)	<i>Oikos</i>
<i>Biological Invasions</i>	<i>Heredity</i>	<i>Perspectives in Plant Ecology</i>
<i>Biotropica</i> (2)	<i>Journal of Animal Ecology</i>	<i>Evolution, and Systematics</i>
<i>Ecography</i>	<i>Journal of Arid Environments</i>	<i>Plant Ecology &amp; Diversity</i>
<i>Ecología en Bolivia</i>	<i>Journal of Biogeography</i>	<i>PLoS ONE</i> (4)
<i>Ecological Applications</i> (2)	<i>Journal of Ecology</i> (12)	<i>PNAS</i> (2)
<i>Ecological Research</i>	<i>Journal of Vegetation Science</i> (2)	<i>Proceedings of the Royal</i>
<i>Ecology</i> (16)	<i>Landscape Ecology</i> (2)	<i>Society B</i> (2)
<i>Ecology Letters</i> (11)	<i>Methods in Ecology and Evolution</i>	<i>Science Advances</i>

### Organizer for Working Groups & Workshops

- Co-organized and co-funded working group for 16 participants with Sebastián Tello and Selene Báez: "*A synthesis of patterns and mechanisms of diversity and change in the Andes: A global biodiversity hotspot*"; Quito, Ecuador 2018
- Co-organized and co-funded workshop for 32 participants with Laura Burkle and Travis Belote: "*R Basics Workshop*"; Montana State University, Bozeman, MT 2014
- Co-organized and co-funded workshop for 37 participants with Kyle Harms and Paul Gagnon: "*Exploring heterogeneity in the ecology, restoration, and management of longleaf groundcover*"; Longleaf Alliance 10th Biennial Conference, Mobile, AL 2014

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**Service at Washington University**


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**Departmental & University Committees & Other Service**

- Interim Chair, EEPB Graduate Program Admissions Committee 2018
- Danforth Campus Planning Committee on Cross-Campus Science Initiatives 2018–Present
- Washington University Climate Change Program (WUCCP) Steering Committee 2017–Present
- Biology Department Curriculum Committee 2017–Present
- Delegate from Washington University to Organization for Tropical Studies (OTS) Assembly of Delegates 2016–Present
- Environmental Biology Major Steering Committee, Dept. of Biology 2015–Present
- Environmental Studies Committee, College of Arts and Sciences 2014–Present
- EEPB Graduate Program Admissions & Steering Committee, Dept. of Biology 2012–Present
- Tyson Research Center Steering Committee, College of Arts and Sciences 2012–Present
- Saint Louis Ecology, Evolution & Conservation (SLEEC) Steering Committee 2012–Present
- Reviewer for I-CARES & InCEES Research Proposals (3 proposals reviewed) 2014–2018
- Evolution, Ecology & Population Biology (EEPB) Graduate Program Qualifying Exam Committee (4 separate years), Dept. of Biology 2014–2018
- Ecology Faculty Search Committee, Dept. of Biology 2015–2016
- I-CARES Faculty Search Committee (Tyson Research Center Director), College of Arts and Sciences 2013–2014

**Host for Seminar Speakers & Prospective Graduate Students**

- Host for Seminar Speakers (27 speakers hosted): Department of Biology Seminar Series (4 speakers); Evolution, Ecology & Population Biology (EEPB) Seminar Series (3 speakers); Living Earth Collaborative Seminar Series (1 speaker); Tyson Summer Seminar Series (19 speakers) 2011–Present
- Tour Leader for Evolution, Ecology & Population Biology (EEPB) Prospective Graduate Student Visit to the Tyson Research Center (5 consecutive years) 2014–Present

**Participation in Educational Training & Transdisciplinary Research Initiatives**

- Participant in STEM Teaching (MiST) Program for Junior Faculty to bring together assistant professors with tenured faculty for a two-year mentoring experience focused on teaching and designed to foster a multi-disciplinary, multi-level learning community of faculty engaged in scholarly teaching. 2015–2016
- Participant in "Harnessing Big Data for Environment, Livelihoods, and Population Wellbeing in India" Project, a transdisciplinary research initiative involving eight faculty members representing five departments in Arts & Sciences and the Brown School of Social Work. 2015

### **Mentoring, Outreach & Training**

- Research mentor for high school student presentations, Tyson Environmental Research Fellowship (TERF) High School Research Symposium, Tyson Research Center, MO (8 consecutive years: 15 poster presentations; 6 talks) 2011–Present
- Research mentor for student presentations at the Washington U. Undergraduate Research Symposium (6 consecutive years: 12 poster presentations) 2012–Present
- Reviewer for the Washington U. Biology Summer Undergraduate Research Fellowship Program (BioSURF) 2018
- Reviewer for the Marion Smith Spector Prize for best undergraduate honors thesis in biology – Kai Jones (2015), Muxi Yang (2013), Qian Xinye (2018) 2013, 2015, 2018
- Participant in career-panel discussion for undergraduate summer colloquium series, Tyson Research Center Undergraduate Fellows Program 2017
- Participant in welcome session for biology majors 2015
- Participant in welcome session for environmental biology majors (2 years) 2014–2015
- Participant in "What does success look like?" event for the undergraduate student-discussion group "Controversy N' Coffee" 2014
- Participant in the Washington U. Office of Undergraduate Research "Mentor Connections" event for freshman and sophomore students (2 years) 2012–2013
- Reader for undergraduate honors theses in environmental biology and environmental studies – Kelly Muething (2013), Merrill Rudd (2011), Vanessa Hensley (2013) 2011–2013
- Research mentor for student presentation at the MidStates Consortium for Math and Science Undergraduate Research Symposium, Washington U. 2011
- Panel member for the Washington U. Undergraduate Biostatistics Training Program, Tyson Research Center, MO (3 years) 2010–2012

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### **Professional Workshops Attended**

- Statistical estimation of species richness and biotic similarity using EstimateS, Association for Tropical Biology & Conservation, San José, Costa Rica 2013
- Hierarchical Bayesian Modeling in Ecology, Ecological Society of America Meeting, Portland, OR 2012
- Spatial & Phylogenetic Analysis in Macroecology, International Biogeography Society Conference, Crete, Greece 2011
- Structural Equation Modeling, Louisiana State University, Baton Rouge, LA 2010
- Multiple Linear Regression using R, Ecological Society of America Meeting, Memphis, TN 2006
- Likelihood Methods in Forest Ecology, Institute of Ecosystem Studies, Millbrook, NY 2005

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### **Membership in Professional Societies**

- Association for Tropical Biology and Conservation
- British Ecological Society
- Ecological Society of America
- International Biogeography Society