Jonathan A. Myers

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Research Interests

I am an ecologist broadly interested in the processes that determine the assembly, diversity, and dynamics of ecological communities from local to global scales. My research explores how the drivers of community assembly—species pools, dispersal, ecological niches, and ecological drift—shape patterns of biodiversity at different spatial scales and responses of biodiversity to environmental change. I explore these questions using large-scale and long-term observational studies, field experiments, and ecological synthesis in a variety of plant communities spanning temperate and tropical forests, ecosystems shaped by natural and human-altered disturbances, and global hotspots of plant diversity. Key research topics include: community assembly, biotic interactions (plant-plant, plant-enemy & plant-mutualist interactions), plant functional diversity, and plant chemical community ecology across ecological and biogeographic gradients; forest diversity and dynamics across temperate and tropical ecosystems; biodiversity responses to fire disturbance; ecological drivers of biodiversity-ecosystem functioning relationships across spatial scales; and the eco-evolutionary assembly of regional biotas.

Academic, Research & Teaching Appointments

- Professor, Dept. of Biology, Washington University in St. Louis (WashU), MO — 2024–Present
- Associate Professor, Dept. of Biology, WashU, MO — 2018–2024
- Assistant Professor, Dept. of Biology, WashU, MO — 2012–2018
- Graduate Program Director: Ecology & Evolutionary Biology, WashU, MO — 2021–Present
- Research Associate, Missouri Botanical Garden, St. Louis, MO — 2012–Present
- Center for the Environment Scholar, WashU, MO — 2023–Present
- Biodiversity Fellow, Living Earth Collaborative, WashU, MO — 2018–Present
- Tyson Research Center Postdoctoral Fellow, Dept. of Biology, WashU, MO — 2010–2012
  Supervisor: Dr. Jonathan M. Chase
- Research Assistant, Institute of Ecosystem Studies, Millbrook, NY — 2002
  Research site: Luquillo Experimental Forest, Puerto Rico
  Supervisor: Dr. Charles D. Canham
- Research Assistant, Smithsonian Tropical Research Institute, Panama — 2001
  Research site: Barro Colorado Island Nature Monument, Panama
  Supervisor: Dr. Edmund V.J. Tanner (University of Cambridge, UK)
- Botanist, U.S. Forest Service Northeastern Research Station, Burlington, VT — 2000
  Research site: Paul Smith's College Visitor Interpretive Center, Adirondack Park, NY; Supervisors: Dr. Gary L. Wade & Dr. Mark J. Twery
- Assistant Instructor, Forestry Dept., Paul Smith's College, Paul Smiths, NY — 1999
  Course: Forest Mensuration 222
- Interpretive Naturalist Intern, New York State Department of Environmental Conservation, Ray Brook, NY; Location: Meacham Lake, Adirondacks, NY — 1999

Education

- 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: Dr. 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: Dr. 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 in central New York*; Advisor: Dr. Peter L. Marks
- Paul Smith's College, Paul Smiths, NY 1997–1999
  A.A.S., Forestry – Forest Recreation Concentration (*Summa Cum Laude*)

Publications

- **98** total research publications: **95** peer-reviewed journal articles; **2** book chapters; **1** research report; 4–10 peer-reviewed publications per year (median = 7) in the last 5 years (2021–2025)
- Google Scholar (Nov. 18, 2026): Citations = 13,435 (8,393 since 2021); h-index = 47; i10-index = 77; 27 papers cited >100 times; 13 papers cited >300 times; 3 papers cited >900 times
- Current & former members of my group in **red**: ***undergraduate student; **graduate student; *postdoc; [T]technician; [V]visiting graduate student; corresponding author = first author, unless otherwise indicated by [CA]

Peer-Reviewed Journal Articles

95. Baranger, Anne O., *et al*. (82 total authors including **Jonathan A. Myers**). Lower fecundity of European and North American tree species in the cold region of their range. ***Global Ecology and Biogeography*** (Accepted).
94. Gomes, Paulo Wender P., *et al.* (91 total authors including **David Henderson**** **& Jonathan A. Myers**). plantMASST – Community-driven chemotaxonomic digitation of plants. ***Nature*** *(In Press)*; bioRxiv preprint: https://doi.org/10.1101/2024.05.13.593988
93. **Usdin***, **Richard L.**, **Ethan Abercrombie****,** Carol L. Hampe, Victoria L. Sork & **Jonathan A. Myers**. Temperature and precipitation shape long-term tree compositional changes in a temperate forest. ***Ecosphere*** (*In Press*).
92. Radhamoni, Harikrishnan Venugopalan Nair, Michelle Elise Spicer, Marlyse C. Duguid, Liza S. Comita, Emilio Bruna, Andrew J. Andrade, Jared J. Beck, Julia I. Burton, Hector Chuquillanqui, Daniele Cicuzza, Martin Dovciak, Frank S. Gilliam, Keri Greig, Clayton W. Hale, Catherine Hulshof, Natalie Izlar, Sarah E. Johnson, **Joseph A. LaManna**, David P. Matlaga, David Kimutai Melly, Austin Menzmer, Kathryn Miller, Gabriel M. Moulatlet, **Jonathan A. Myers**, Jay P. Sah, Marcel Caritá Vaz, **Anna E. Wassel**, Sienna E. Wessel, Jin Yin, Alejandro Zuluaga & Simon A. Queenborough. 2026. Herbaceous plants in forest ecosystems: One hundred fundamental and applied questions. ***Journal of Vegetation Science*** 37: e70168.

91. Yan, Haoru, Xiaojuan Liu, Bernhard Schmid, Yi Li, Kristina J. Anderson-Teixeira, Sabine Both, Norman A. Bourg, David F.R.P. Burslem, Chengjin Chu, Keith Clay, Hu Du, Nathaly R. Guerrero-Ramírez, Hua Huang, Daniel J. Johnson, Guangze Jin, Luxiang Lin, Feng Liu, Yankun Liu, William J. McShea, Xiangcheng Mi, **Jonathan A. Myers**, Jinyao Nie, Michael J. O'Brien, Richard P. Phillips, Xiujuan Qiao, Glen Reynolds, Guochun Shen, **Marko J. Spasojevic**, Hongxin Su, Shangwen Xia, Xuehong Xu, Enrong Yan, Xiaodong Yang, Jie Yang, Yan Zhu, Keping Ma & Yann Hautier. 2026. Tree diversity–soil organic carbon relationships strengthen under colder and more arid conditions. ***New Phytologist*** 251: 120–134.
90. Li, Yuanzhi, Junli Xiao, Yuan Jiang, Joseph Wright, Margaret A. Mayfield, Oscar Godoy, Alfonso Alonso, Kristina J. Anderson-Teixeira, Jennifer Baltzer, Joseph D. Birch, Pulchérie Bissiengou, Norm A. Bourg, Warren Brockelman, David F.R.P. Burslem, Min Cao, Keith Clay, Stuart J. Davies, Qingqing Du, Sisira Ediriweera, Anna Feistner, Edwino Fernando, Gregory S. Gilbert, Zhanqing Hao, Jan Holík, Mingxi Jiang, Guangze Jin, Daniel J. Johnson, Alexander S. Jones, Kamil Král, Andrew J. Larson, Buhang Li, Juyu Lian, Luxiang Lin, Feng Liu, Yu Liu, Zhili Liu, James A. Lutz, Keping Ma, Sean McMahon, William McShea, Hervé Roland Memiaghe, Xiangcheng Mi, **Jonathan A. Myers**, Musalmah Nasardin, Anuttara Nathalang, Michael O'Brien, Nestor Engone Obiang, Geoffrey Parker, Richard P. Phillips, Xiujuan Qiao, Haibao Ren, Glen Reynolds, Lillian Jennifer V. Rodriguez, Pavel Šamonil, Guochun Shen, Zufei Shu, Jessica Shue, Mark E. Swanson, Jill Thompson, Maria Uriarte, Xihua Wang, Xugao Wang, Youshi Wang, Tze Leong Yao, Wanhui Ye, Mingjian Yu, Minhua Zhang, Yan Zhu, Jess Zimmerman, Fangliang He & Chengjin Chu (corresponding author). 2026. Higher-order biotic interactions enhance the latitudinal tree diversity gradient. ***Nature*** 53: 433–438.
    - **Cover Article** (Cover photo: Jonathan A. Myers):
89. Chen, Yue, Janne Soininen, **Jonathan A. Myers**, Zikun Mao, Jinghua Yu & Xugao Wang. 2026. Meta-analysis reveals widespread negative associations between species richness and ecological uniqueness. ***Nature Communications*** 17: 4428.
88. Xu, Zhichao, Meihui Zhu, **Jonathan A. Myers**, Lin Jiang, Fei Lin, Ji Ye, Shuai Fang, Zikun Mao & Xugao Wang. 2026. Dominant species stability outweighs species asynchrony and diversity in regulating temperate forest regeneration. ***Forest Ecosystems*** 16: 100433.
87. Clark, James S., *et al*. (76 total authors including **Jonathan A. Myers**). 2026. Continental contrasts in climate extremes that control tree fecundity. ***Global Change Biology*** 32: e70738.
86. **Abercrombie******, Ethan**, **Jonathan A. Myers**, **Richard L. Usdin***** & Adam B. Smith. 2026. Lagged responses in the composition of small mammal communities to a century of climate change. ***Ecography*** 4: e08010.
85. Fadrique, Belen […] & Oliver L. Phillips (161 total authors including **William Farhán-Ríos*** & **Jonathan A. Myers**). 2026. Tree diversity is changing across tropical Andean and Amazonian forests in response to global change. ***Nature Ecology & Evolution*** 10: 267–280
    - **News coverage**: "WashU scientists join 40-year study tracking changing tropical forests", WashU Arts & Science Magazine (The Ampersand)
    - **News coverage**: "40 Years of Tracking Trees Reveals How Global Change Is Impacting Amazon and Andean Forest Diversity", University of Leeds, Published Jan. 23, 2026
84. Chadwick, Sierra E., **David Henderson****, Dale Forrister, Leslie Cayola, Alfredo F. Fuentes, Belen Alvestegui, Nathan Muchhala, J. Sebastián Tello, Martin Volf, **Jonathan A. Myers** & Brian E. Sedio[CA]. 2026. Chemical properties of foliar metabolomes represent a key axis of functional trait variation in forests of the tropical Andes. ***Proceedings of the Royal Society B*** 293: 20251721.

83. **Farhán-Ríos*, William**, Kenneth J. Feeley, **Jonathan A. Myers**, J. Sebastián Tello, Jhonatan Sallo-Bravo, Yadvinder Malhi, Oliver L. Phillips, Timothy Baker, Alex Nina-Quispe, Karina Garcia-Cabrera, Sassan Satchi, John Terborgh, Nigel Pitman, Abel Monteagudo Mendoza, Rodolfo Vasquez, Norma Salinas-Revilla, Leslie Cayola, Alfredo F. Fuentes, M. Isabel Loza, Percy Nuñez Vargas & Miles R. Silman. 2025. Andean and Amazonian tree communities are not tracking current climate warming. ***PNAS*** 122: e2425619122.
    - **News Coverage**: "Can Amazon and Andean trees move to survive climate change?", Wake Forest News, Published Aug. 19, 2025
82. **Henderson**, David**, J. Sebastián Tello, Leslie Cayola, Alfredo F. Fuentes, Belen Alvestegui, Nathan Muchhala, Brian E. Sedio‡ & **Jonathan A. Myers**‡, CA. 2025. Testing the role of biotic interactions in shaping elevational-diversity gradients: An ecological metabolomics approach. ***Ecology*** 106: e70069. ‡authors contributed equally.
    - **News Coverage**: "Tropical bounty: How forests can turn into chemical factories", WashU Arts & Sciences Magazine (The Ampersand), Published Apr. 14, 2025
81. Wiegand, Thorsten, Xugao Wang, Samuel Fischer, Nathan J. B. Kraft, Norman A. Bourg, Warren Y. Brockelman, Min Cao, Wirong Chanthorn, Chengjin Chu, Stuart Davies, Sisira Ediriweera, C. V. S. Gunatilleke, I. A. U. N. Gunatilleke, Zhanqing Hao, Robert Howe, Mingxi Jiang, Guangze Jin, W. John Kress, Buhang Li, Juyu Lian, Luxiang Lin, Feng Liu, Keping Ma, William McShea, Xiangcheng Mi, **Jonathan A. Myers**, Anuttara Nathalang, David A. Orwig, Guochun Shen, Sheng-Hsin Su, I-Fang Sun, Xihua Wang, Amy Wolf, Enrong Yan, Wanhui Ye, Yan Zhu & Andreas Huth. 2025. Latitudinal scaling of aggregation with abundance and coexistence in forests. ***Nature*** 640: 967–973.
80. **Wassel**, Anna E.** & **Jonathan A. Myers**. 2025. Pawpaws prevent predictability: A locally-dominant tree alters understory beta-diversity and community assembly. ***Ecosphere*** 16: e70115.
    - **News Coverage**: "Nothin' but pawpaws in the pawpaw patch", WashU Newsroom, Published Jan. 9, 2025
    - **News Coverage**: "Pawpaw trees form dense patches that outcompete other plants", Earth.com, Published Jan. 11, 2025
    - **Podcast Interview with Anna Wassel**: "Paw Paw Randomness", In Defense of Plants Podcast, Feb. 2, 2025
79. Henn, Jonathan J., Brian E. Sedio, **Christopher P. Catano**, **Emily DeWald-Wang***, **Dilys Vela Díaz**, James A. Lutz, Sean M. McMahon, Geoffrey Parker, **Jonathan A. Myers** & **Marko J. Spasojevic***. 2024. Metabolomic and morphological trait diversity display contrasting patterns in temperate forest tree communities. ***Ecosphere*** 15: e70137.
78. **Baldwin**, Justin W.** & **Jonathan A. Myers**. 2024. Avian dispersal ability shapes species-area relationships on islands worldwide. ***Ecology Letters*** 27: e70020.
    - **News Coverage**: "Island biodiversity rides on the wings of birds", WashU Newsroom, Published Dec. 3, 2024
77. Chisholm, Ryan A., Tak Fung, *et al*. (45 total authors including **Jonathan A. Myers**). 2024. Assessing the spatial scale of synchrony in forest tree population dynamics. ***Proceedings of the Royal Society B*** 291: 20240486.
76. Journé, Valentin[CA] […] & James S. Clark[CA] (100 total authors including **William Farhán-Ríos*** & **Jonathan A. Myers**). 2024. The relationship between maturation size and maximum tree size from tropical to boreal climates. ***Ecology Letters*** 27:e14500.

75. **LaManna, Joseph A.***, Florian Hartig, **Jonathan A. Myers**, Bénédicte Bachelot, Robert Bagchi, Liza S. Comita, David DeFilippis, Matteo Detto, Cole J. Doolittle, Robert P. Freckleton, Fiona Jevon, Daniel J. Johnson, Meghna Krishnadas, Lisa Hülsmann, Lukas Magee, Scott A. Mangan, Valerie R. Milici, Aimé Lucky Barahebuza Murengera, Nohemi Huanca-Nunez, Stefan A. Schnitzer, Daniel Smith, Claudia Stein, Meghan Sullivan, Akshay Surendra, Ethan Torres, María Natalia Umaña & Camille S. Delavaux. 2024. Consequences of local conspecific density effects for plant diversity and community dynamics. ***Ecology Letters*** 27:e14506.
74. Chen, Yue, Zikun Mao, **Jonathan A. Myers**, Jinghua Yu & Xugao Wang[CA]. 2024. Tree mycorrhizal associations determine how biodiversity, large trees, and environmental factors drive aboveground carbon stock in temperate forests. ***Forest Ecosystems*** 11: 100205.
73. Chen, Yue, **Jonathan A. Myers**, Alejandro Ordonez, Jinghua Yu, Ji Ye, Fei Lin, Shuai Fang, Zikun Mao & Xugao Wang[CA]. 2024. Multiple processes jointly determine ecological uniqueness across forest strata in Northeast China. ***Journal of Biogeography*** 51: 1133–1147.
72. Delavaux, Camille, **Joseph A. LaManna***, **Jonathan A. Myers**, Richard P. Phillips […] & Colin Averill (74 total authors). 2023. Mycorrhizal feedbacks influence global forest structure and diversity. ***Communications Biology*** 6: 1066.
    - **News Coverage**: "Roots of diversity: How underground fungi shape forests", WashU Arts & Sciences Magazine (The Ampersand), Nov. 6, 2023
71. González-Caro[V], Sebastián, J. Sebastián Tello, **Jonathan A. Myers**, Carlos Jaramillo, Kenneth J. Feeley, Cecilia Blundo, Marco Calderón-Loor, Julieta Carilla, Leslie Cayola, Francisco Cuesta, **William Farhán-Ríos***, Alfredo F. Fuentes, Karina Garcia-Cabrera, H. Ricardo Grau, Álvaro Idarraga, M. Isabel Loza, Yadvinder Malhi, Agustina Malizia, Lucio Malizia, Oriana Osinaga-Acosta, Esteban Pinto, Norma Salinas, Miles R. Silman, Andrea Terán-Valdéz & Álvaro Duque. 2023. Historical assembly of Andean tree communities. ***Plants*** 12: 3546.
70. Qiu, Tong […] & James S. Clark (91 total authors including **William Farhán-Ríos*** & **Jonathan A. Myers**). 2023. Masting is uncommon in trees that depend on mutualist dispersers in the context of global climate and fertility gradients. ***Nature Plants*** 9: 1044–1056.
    - **News Coverage**: "A seed survival story: How trees keep 'friends' close and 'enemies' guessing", Penn State News, Jun. 29, 2023
69. Bogdziewicz, Michał […] & James S. Clark (95 total authors including **William Farhán-Ríos*** & **Jonathan A. Myers**). 2023. Linking seed size and number to trait syndromes in trees. ***Global Ecology and Biogeography*** 32: 683–694.
68. Mao, Zikun, Fons van der Plas, Adriana Corrales, Kristina J. Anderson-Teixeira, Norman A. Bourg, Chengjin Chu, Zhanqing Hao, Guangze Jin, Juyu Lian, Fei Lin, Buhang Li, Wenqi Luo, William J. McShea, **Jonathan A. Myers**, Guochun Shen, Xihua Wang, En-Rong Yan, Ji Ye, Wanhui Ye, Zuoqiang Yuan & Xugao Wang[CA]. 2023. Scale-dependent diversity–biomass relationships can be driven by tree mycorrhizal association and soil fertility. ***Ecological Monographs*** 93: e1568.
67. **Reu, Jacqueline C.*****, **Christopher P. Catano****, **Marko J. Spasojevic*** & **Jonathan A. Myers**. 2022. Beta diversity as a driver of forest biomass across spatial scales. ***Ecology*** 103: e3774.
    - **News Coverage**: "The space between us – Missouri Ozarks study narrows in on spatial aspects of biodiversity, homogenization threat to forest ecosystems", Washington University Newsroom, Published May 31, 2022; featured in NSF Research News ("Spatial aspects of biodiversity important for healthy forests") Mar. 10, 2022

66. Báez, Selene[CA], Luis Cayuela Delgado […] & Jürgen Homeier[CA] (44 total authors including **William Farhán-Ríos*** & **Jonathan A. Myers**). 2022. FunAndes – A plant functional trait database of Andean plants. ***Scientific Data*** 9: 511.
65. Journé, Valentin […] & James S. Clark[CA] (102 total authors including **William Farhán-Ríos*** & **Jonathan A. Myers**). 2022. Globally, tree fecundity exceeds productivity gradients. ***Ecology Letters*** 25: 1471–1482.
64. Qiu, Tong […] & James S. Clark[CA] (103 total authors including **William Farhán-Ríos*** & **Jonathan A. Myers**). 2022. Limits to reproduction and seed size-number tradeoffs that shape forest dominance and future recovery. ***Nature Communications*** 13: 2381.
63. SoilTemp Consortium – Lembrechts, Jonas J.[CA], Johan van den Hoogen […] Ivan Nijs & Jonathan Lenoir[CA] (405 total authors including **Jonathan A. Myers** & **Marko J. Spasojevic***). 2022. Global maps of soil temperature. ***Global Change Biology*** 28: 3110–3144.
62. Burkle, Laura A., R. Travis Belote & **Jonathan A. Myers**. 2022. Wildfire severity alters drivers of interaction beta-diversity in plant-bee networks. ***Ecography*** e05986.
61. Sharma, Shubhi […] & James S. Clark[CA](45 total authors including **Jonathan A. Myers**). 2022. North American tree migration paced by climate in the West, lagging in the East. ***PNAS*** 119: e2116691118.
    - **News Coverage**: "What's Driving the East-West Divide in Trees' Response to Climate Change?", Duke University Nicholas School of the Environment, Published Jan. 24, 2022
    - **News Coverage**: "Seed production, recruitment affect how trees are migrating due to climate change", Washington University Newsroom, Published Jan. 24, 2022
60. Gonzalez-Akre, Erika […] & Kristina J. Anderson-Teixeira[CA] (28 total authors including **Jonathan A. Myers**). 2022. *allo-db*: An R database for biomass estimation at globally distributed extratropical forest plots. ***Methods in Ecology and Evolution*** 13: 330–338.
59. Linan, Alexander G., **Jonathan A. Myers**, Christine E. Edwards, Amy E. Zanne, Stephen A. Smith, Gabriel Arellano, Leslie Cayola, **William Farhán-Ríos***, Alfredo F. Fuentes, Karina Garcia-Cabrera, Sebastian González-Caro, M. Isabel Loza, Manuel J. Macía, Yadvinder Malhi, Beatriz Nieto-Ariza, Norma Salinas Revilla, Miles Silman & J. Sebastián Tello. 2021. The evolutionary assembly of forest communities along Environmental gradients: Recent diversification or sorting of pre-adapted clades? ***New Phytologist*** 232: 2506–2519.
58. Qiu, Tong […] & James S. Clark[CA] (63 total authors including **William Farhán-Ríos*** & **Jonathan A. Myers**). 2021. Is there tree senescence? The fecundity evidence. ***PNAS*** 118: e2106130118.
    - **News Coverage**: "Contrary to Common Belief, Some Older Trees Make Fewer Seeds", The Scientist, Published Nov. 1, 2021
    - **News Coverage**: "For Larger, Older Trees, It's All Downhill from Here", Duke University Nicholas School of the Environment, Published Aug. 16, 2021
57. Sedio, Brian E., **Marko J. Spasojevic***, **Jonathan A. Myers**, S. Joseph Wright, Maria D. Person, Hamssika Chandrasekaran, Jack H. Dwenger, María Laura Prechi, Christian A. López, David N. Allen, Kristina J. Anderson-Teixeira, Jennifer L. Baltzer, Norm Bourg, Buck T. Castillo, Nicola J. Day, **Emily DeWald-Wang*****, Christopher W. Dick, Timothy Y. James, Jordan G. Kueneman, **Joseph A. LaManna***, James A. Lutz, Ian McGregor, Sean M. McMahon, Geoffrey G. Parker, John D. Parker & John H. Vandermeer. 2021. Chemical similarity of co-occurring trees decreases with precipitation and temperature in North American forests. ***Frontiers in Ecology and Evolution*** 9: 679638.
    - **Invited Paper for Research Theme**: Temporal and Large-Scale Spatial Patterns of Plant Diversity and Diversification

56. Zhong, Yonglin, Chengjin Chu[CA], **Jonathan A. Myers**, Gregory S. Gilbert, James A. Lutz, Jonas Stillhard, Kai Zhu, Jill Thompson, Jennifer L. Baltzer, Fangliang He, **Joseph A. LaManna***, Stuart J. Davies, *et al*. (97 total authors). 2021. Arbuscular mycorrhizal trees influence the latitudinal beta-diversity gradient of tree communities in forests worldwide. ***Nature Communications*** 12: 3137.
55. Duque, Alvaro, Miguel A. Peña, Francisco Cuesta, Sebastián González-Caro, Peter Kennedy, Oliver L. Phillips, Marco Calderón-Loor, Cecilia Blundo, Julieta Carilla, Leslie Cayola, **William Farhán-Ríos***, Alfredo Fuentes, Ricardo Grau, Jürgen Homeier, María I. Loza-Rivera, Yadvinder Malhi, Agustina Malizia, Lucio Malizia, Johanna A. Martínez-Villa, **Jonathan A. Myers**, Oriana Osinaga-Acosta, Manuel Peralvo, Esteban Pinto, Sassan Saatchi, Miles Silman, J. Sebastián Tello, Andrea Terán-Valdez, Kenneth J. Feeley. 2021. Mature Andean forests as globally important carbon sinks and future carbon refuges. ***Nature Communications*** 12: 2138.
    - **News Coverage**: "Mountain high: Andean forests have high potential to store carbon under climate change", Washington University Newsroom, Published Apr. 19, 2021
54. Muñoz, Miguel, J. Sebastián Tello, Manuel J. Macía, **Jonathan A. Myers**, Peter M. Jørgensen, Victoria Cala, Alfredo F. Fuentes, Vania W. Torrez & Gabriel Arellano. 2021. Mechanisms of community assembly explaining beta-diversity patterns across biogeographic regions. ***Journal of Vegetation Science*** 32: e13032
53. Clark, James S., *et al*. (63 total authors including **Jonathan A. Myers**). 2021. Continent-wide tree fecundity driven by indirect climate effects. ***Nature Communications*** 12: 1242.
    - **News Coverage**: "Climate Impacts Drive East-West Divide in Forest Seed Production", Duke University Nicholas School of the Environment, Published Feb. 23, 2021
52. **LaManna**, **Joseph A.***, Laura A. Burkle, R. Travis. Belote & **Jonathan A. Myers**. 2021. Biotic and abiotic drivers of plant-pollinator community assembly across wildfire gradients. ***Journal of Ecology*** 109: 1000-1013.
    - **News Coverage**: "In fire-prone West, plants need their pollinators — and vice versa", Washington University Newsroom, Published Nov. 25, 2020; featured in NSF Research News Dec. 7, 2020
51. **LaManna, Joseph A.***, Scott A. Mangan & **Jonathan A. Myers**. 2021. Conspecific negative density dependence and why its study should not be abandoned. ***Ecosphere*** 12: e03322.
50. Adu-Oppong**, Boahemaa, Scott A. Mangan, Claudia Stein, **Christopher P. Catano****, **Jonathan A. Myers** & Gautam Dantas[CA]. 2020. Prairie plants harbor distinct and beneficial root-endophytic bacterial communities. ***PLoS ONE*** 15: e0234537.
49. **Vela Díaz, Dilys M.****, Leslie Cayola, Alfredo F. Fuentes, Lucio R. Malizia, Cecilia Blundo & **Jonathan A. Myers**. 2020. Untangling the importance of niche breadth and niche position as drivers of tree species abundance and occupancy across biogeographic regions. ***Global Ecology and Biogeography*** 29: 1542-1553.
48. **Catano, Christopher P.****, Trevor S. Fristoe, **Joseph A. LaManna*** & **Jonathan A. Myers**. 2020. Local species diversity, β-diversity, and climate influence the regional stability of bird biomass across North America. ***Proceedings of the Royal Society B*** 287:20192520.
    - **News Coverage**: "Birds of a feather better not together – Homogenization threatens ecosystems at larger geographic scales", Washington University Newsroom, Published Mar. 3, 2020; featured in NSF Research News Mar. 10, 2020
47. Oberle, Brad, Marissa Lee, **Jonathan A. Myers**, Oyomoare Osazuwa-Peters, **Marko J. Spasojevic***, **Maranda L. Walton**[T], Darcy F. Young & Amy E. Zanne. 2020. Accurate forest projections require long-term wood decay experiments because plant trait effects change through time. ***Global Change Biology*** 26:864-875.

46. **Spasojevic, Marko J.***, **Katherine Harline***, Claudia Stein, Scott A. Mangan & **Jonathan A. Myers**. 2019. Landscape context mediates the relationship between plant functional traits and decomposition. ***Plant and Soil*** 438:377-391.
45. Burkle, Laura A., Michael P. Simanonok, J. Simone Durney, **Jonathan A. Myers** & R. Travis Belote. 2019. Wildfires influence abundance, diversity, and intraspecific and interspecific trait variation of native bees and flowering plants across burned and unburned landscapes. ***Frontiers in Ecology and Evolution*** 7:252.
    - **Invited Paper for Research Theme**: Arthropod Interactions and Responses to Disturbance in a Changing World
44. Menge, Duncan N.L., Ryan A. Chisholm [...] & Tak Fung[CA] (81 total authors including **Jonathan A. Myers**). 2019. Patterns of nitrogen-fixing tree abundance in forests across Asia and America. ***Journal of Ecology*** 107:2598-2610.
43. Liang***, Anna J., Claudia Stein[CA], Eleanor Pearson***, **Jonathan A. Myers**, Raelene M. Crandall & Scott A. Mangan[CA]. 2019. Snail herbivory affects seedling establishment in a temperate forest in the Ozark region. ***Journal of Ecology*** 107:1828-1838.
    - **News Coverage**: Buehler, Jake. 2019. Snails nibbling on seedlings may shape forests. *Frontiers in Ecology and the Environment* 17:137.
42. Ellison, Aaron M., Hannah L. Buckley, Bradley S. Case, Dairon Cardenas, Alvaro J. Duque, James A. Lutz, **Jonathan A. Myers**, David A. Orwig & Jess K. Zimmerman. 2019. Species diversity associated with foundation species in temperate and tropical forests. ***Forests*** 10:128.
    - **Invited Paper for Species Issue**: Causes and Consequences of Species Diversity in Forest Ecosystems
41. Chengjin Chu, James A. Lutz, Kamil Král, Tomáš Vrška, Xue Yin, **Jonathan A. Myers** […] Gary G. Mittelbach & Fangliang He (73 total authors). 2019. Direct and indirect effects of climate on richness drive the latitudinal diversity gradient in forest trees. ***Ecology Letters*** 22:245-255.
40. **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**
39. **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.
38. **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.
37. 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
36. Van Horn***, Thomas R., Solny A. Adalsteinsson[CA], Katie M. Westby, Elizabeth Biro, **Jonathan A. Myers, Marko J. Spasojevic*, Maranda L. Walton**[T] & 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
35. Hovanes, Katherine A., Kyle E. Harms, Paul R. Gagnon, **Jonathan A. Myers** & Bret D. Elderd. 2018. Overdispersed spatial patterning of dominant bunchgrasses in southeastern pine savannas. ***The American Naturalist*** 191: 658-667.

34. 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.
33. **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
32. **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.
31. **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** (Cover photo: Jonathan A. Myers): https://onlinelibrary.wiley.com/toc/14610248/2017/20/3
30. 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.
29. **LaManna*, Joseph A.**, **Maranda L. Walton**[T], 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.
28. 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

27. Buckley, Hannah L., Bradley S. Case, Jess K. Zimmerman, Jill Thompson, **Jonathan A. Myers** & Aaron M. Ellison. 2016. Using codisperson analysis to quantify and understand spatial patterns in species-environment relationships. ***New Phytologist*** 211: 735-749.
26. Oberle, Brad, Amy M. Milo, **Jonathan A. Myers**, **Maranda L. Walton**[T], 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.
25. **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.
24. 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
23. 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.
22. **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
21. 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.
20. 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 β-diversity reflect variation in the strength of local community assembly mechanisms across spatial scales. ***PLoS ONE*** 10: e0121458.
19. **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.
18. **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.
17. 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.
16. 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/
15. 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 β-diversity along latitudinal and elevational gradients." ***Science*** 335: 1573.

14. 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.
13. 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 β-diversity along latitudinal and elevational gradients. ***Science*** 333: 1755-1758.
    - **Cover Article**: sciencemag.org/content/333/6050.cover-expansion
    - **Highlighted in**: Friedman-Rudovsky, Jean. 2012. Taking the Measure of Madidi. ***Science*** 337: 285-287 (pg. 286).
12. 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
11. **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)
10. 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
    - **Concepts & Synthesis Paper**
9. **Myers, Jonathan A.** & Kyle E. Harms. 2009. Seed arrival, ecological filters, and plant species richness: A meta-analysis. ***Ecology Letters*** 12: 1250-1260.
    - **Highlighted in**: Keddy, P. A. & D. F. Laughlin. 2022. *A Framework for Community Ecology: Species Pools, Filters and Traits*. Cambridge University Press (pp. 102-104)
8. **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.
7. **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
6. **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.
5. 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

<u>Invited Commentary Papers</u>

4. **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.

Review Papers

3. Davies, Stuart J., *et al*. (147 total authors including **Jonathan A. Myers**). 2021. ForestGEO: Understanding Forest Diversity and Dynamics through a Global Observatory Network. ***Biological Conservation*** 253: 108907.
2. Future of Fire Consortium — McLauchlan, Kendra K., Philip E. Higuera, Jessica Miesel, Brendan M. Rogers, Jennifer Schweitzer, Jacquelyn K. Shuman, Alan J. Tepley, J. Morgan Varner, Thomas T. Veblen, *et al*. (45 total authors including **Jonathan A. Myers**). 2020. Fire as a fundamental ecological process: Research advances and frontiers. ***Journal of Ecology*** 108: 2047-2069.
    - **Blog Coverage**: "Fire as a fundamental ecological process", Journal of Ecology Blog, Published Jun. 8, 2020
1. Anderson-Teixeira, Kristina J., Stuart J. Davies, *et al*. (108 total authors including **Jonathan A. Myers**). 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

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 & 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.

Selected Datasets

6. **Wassel******, A. E.**, & **Myers, J. A.** Myers (2024). Pawpaws prevent predictability: A locally-dominant tree alters understory beta-diversity and community assembly [Data set]. In *Ecosphere*. Zenodo. https://doi.org/10.5281/zenodo.14183437
5. Burkle, Laura A.; Belote, R. Travis; **Myers, Jonathan A.** (2022), Wildfire severity alters drivers of interaction beta-diversity in plant-bee networks, Dryad, Dataset, https://doi.org/10.5061/dryad.stqjq2c4m
4. **LaManna, Joseph A.**; Burkle, Laura A.; Belote, R. Travis; **Myers, Jonathan A.** (2020), Biotic and abiotic drivers of plant-pollinator community assembly across wildfire gradients, Dryad, Dataset, https://doi.org/10.5061/dryad.z34tmpgbq
3. **Vela Diaz******, Dilys M.**; Blundo, Cecilia; Cayola, Leslie; Fuentes, Alfredo F.; Malizia, Lucio R.; **Jonathan A. Myers** (2021), Data from: Untangling the importance of niche breadth and niche position as drivers of tree species abundance and occupancy across biogeographic regions, v4, Dryad, Dataset, https://doi.org/10.5061/dryad.80gb5mknx
2. **Spasojevic*****, Marko J.**; Turner, Benjamin L.; **Myers, Jonathan A.** (2016), Data from: When does intraspecific trait variation contribute to functional beta-diversity?, Dryad, Dataset, https://doi.org/10.5061/dryad.rr4pm

1. **Myers, Jonathan A.**; Chase, Jonathan M.; Crandall, Raelene M.; Jiménez, Iván (2015), Data from: Disturbance alters beta-diversity but not the relative importance of community assembly mechanisms, Dryad, Dataset, https://doi.org/10.5061/dryad.j2qv8

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

Grants & Other Research Support

Current & former members of my research group in **red**

Grants & Other Research Support Awarded at WashU

20. National Science Foundation – Division of Environmental Biology (DEB), Population & Community Ecology Program – *Collaborative Research: Testing the role that biotic interactions play in the latitudinal diversity gradient: A chemical community ecology approach to understanding tree diversity*; Lead PI Brian E. Sedio (University of Texas at Austin) & co-PI Annette Ostling (University of Texas at Austin) (awarded DEB 2240430) & **PI Jonathan A. Myers** (WashU) & co-PI James A. Lutz (Utah State University) (awarded DEB 2240431); $1,084,583 (sum for the 2 separate awards; $250,472 to WashU) — 2023–2027
19. Digital Transformation Research Corp, WashU (10-week Undergraduate Summer Research Project) – *Campuses as Labs: Building digital infrastructure to unlock biodiversity research and innovative collaborations between universities*; PI Rachel Penczykowski (Dept. of Biology) & co-PIs Phil Valko (Office of Sustainability) and **Jonathan A. Myers** (Dept. of Biology) — 2026
18. Digital Transformation Research Corp, WashU (10-week Undergraduate Summer Research Project) – *Linking long-term forest inventory to 3D LiDAR structure*; PI Alex Bradley (Dept. of Earth, Environmental, and Planetary Sciences) & co-PI **Jonathan A. Myers** (Dept. of Biology) — 2026
17. Geospatial Research Initiative Seed Grant, WashU Here & Next Seed Funding – *Using 3D Forest Models generated from LiDAR to investigate how human activities and climatic events impact forest structure and biodiversity*; PI Emily Wroblewski (Dept. of Anthropology) & co-PIs Krista Milich (Dept. of Anthropology) and **Jonathan A. Myers** (Dept. of Biology); $19,975 — 2025
16. Seeding Projects for Enabling Excellence and Distinction (SPEED) in Research Program, WashU – *Fire disturbance as a driver of biodiversity and ecosystem functioning across scales;* **PI Jonathan A. Myers**; $25,000 — 2022–2024
15. Provost's Office COVID Faculty Support Initiative Research Grant, WashU – *Third census of the Tyson Research Center Forest Global Earth Observatory (ForestGEO) Plot*; **PI Jonathan A. Myers**; $50,000 — 2022–2024
14. Literacies for Life and Career Initiative Teaching Innovation Grant, WashU College of Arts and Sciences ($1,000) — 2023
13. National Science Foundation – Division of Environmental Biology (DEB), Population & Community Ecology Program – *Integrating species traits into species pools: A multi-scale approach to understanding community assembly;* **PI Jonathan A. Myers** & co-PI **Marko J. Spasojevic** (University of California, Riverside) (DEB 1557094); $764,175 to WashU, including REU Supplement ($5,500) awarded Apr. 2020 — 2016–2022

12. National Science Foundation – Division of Environmental Biology (DEB), Population & Community Ecology Program – *EAGER: Disentangling the effects of ecological clade sorting and adaptive diversification to the assembly of regional biotas;* PI J. Sebastián Tello (Missouri Botanical Garden [MBG]) & co-PIs Christine E. Edwards (MBG), **Jonathan A. Myers** (WashU), Stephen A. Smith (University of Michigan) & Amy E. Zanne (George Washington University) (awarded DEB 1836353); $199,995 (all funds awarded to MBG) 2018–2022
11. Living Earth Collaborative Seed Grant for Collaborative Research, WashU – Washington University – *Testing the role that biotic interactions play in shaping elevational-diversity gradients: An ecological metabolomics approach;* **PI Jonathan A. Myers** & co-PIs J. Sebastián Tello (Missouri Botanical Garden), Nathan Muchhala (University of Missouri-St. Louis) & Brian E. Sedio (University of Texas at Austin); $29,010 2020–2022
10. Living Earth Collaborative Seed Grant for Collaborative Research, WashU – *Land management effects on microbiome diversity in disease vectors;* PI Solny Adalsteinsson (Tyson Research Center) & co-PIs Adrianus Boon (WashU School of Medicine), David Wang (WashU School of Medicine), Kim Medley (Tyson Research Center) & **Jonathan A. Myers** (Dept. of Biology); $25,500 2019–2020
9. Living Earth Collaborative Seed Grant for Collaborative Research, WashU – *Using species distribution models to predict local-scale habitat suitability and species occurrence;* PI Adam B. Smith (Missouri Botanical Garden), PI Kim Medley (Tyson Research Center), co-PI Stephen J. Murphy (Missouri Botanical Garden) & co-PI **Jonathan A. Myers** (Dept. of Biology); $28,062 2018–2020
8. Living Earth Collaborative Working Group Grant, WashU – *A synthesis of patterns and mechanisms of diversity and change in the Andes: A global biodiversity hotspot;* PI J. Sebastián Tello (Missouri Botanical Garden), PI Selene Báez (National Polytechnic School of Ecuador) & **PI Jonathan A. Myers** (WashU); $29,975 2018–2019
7. Smithsonian Tropical Research Institute – *Second census of the Tyson Research Center Forest Global Earth Observatory (ForestGEO) Plot;* **PI Jonathan A. Myers**; $15,000 2018–2019
6. 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** (Dept. of Biology); $20,000 ($10,000 to Myers) 2017–2018
5. National Science Foundation – Division of Environmental Biology (DEB), 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 University) & co-PI Russel T. Belote (The Wilderness Society) (awarded DEB 1256819) & **PI Jonathan A. Myers** (WashU) (awarded DEB 1256788); $700,000 (sum for the 2 separate collaborative awards; $77,938 to WashU) 2013–2017
4. National Science Foundation – Division of Environmental Biology (DEB) – Population & Community Ecology Program – *Collaborative Research: Diversity, dominance and disturbance in species-rich pine savanna groundcover;* Lead PI Kyle E. Harms (Louisiana State University) & co-PI **Jonathan A. Myers** (WashU) (awarded DEB 1144084) & PI Paul R. Gagnon (Murray State University) (awarded DEB 1144079); $530,000 (sum for the 2 separate collaborative awards; $38,379 to WashU) 2012–2016

3. International Center for Advanced Renewal Energy and Sustainability (I-CARES), WashU – *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** (WashU) & co-PIs Peter M. Jørgensen (Missouri Botanical Garden [MBG]), Iván Jiménez (MBG), J. Sebastián Tello (MBG), Laia Andreu Hayles (Columbia University), Leslie Cayola (Herbario Nacional de Bolivia), Alfredo Fuentes (Herbario Nacional de Bolivia) & Rosa Isela Meneses (Herbario Nacional de Bolivia); $32,000 — 2015–2016
2. 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
1. International Center for Advanced Renewal Energy and Sustainability (I-CARES), WashU – *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** (WashU) & co-PIs Amy E. Zanne (George Washington University), Brad Oberle (George Washington University) & Sean M. McMahon (Smithsonian Environmental Research Center); $43,000 — 2013–2014

Honors, Grants & Fellowships Awarded to Graduate Students

18. Lewis and Clark Fund for Exploration and Field Research: $5,400 awarded to **Chloe Gehret** — 2026
17. Maxwell/Hanrahan Foundation Field Work Grant, Missouri Botanical Garden: $9,125 awarded to **Chloe Gehret** (two separate awards) — 2025, 2026
16. Webster Groves Nature Study Society (WGNSS) Bo Koster Scholarship: $1,500 awarded to **Noah Clayton** — 2025
15. Global Studies Small Grants Program, WashU: $2,000 awarded to **Chloe Gehret** — 2024
14. William H. Danforth Plant Sciences Fellowship, WashU: $162,000 awarded to **Noah Clayton** for four-year fellowship — 2024–2028
13. William H. Danforth Plant Sciences Fellowship, WashU: $162,000 awarded to **Chloe Gehret** for four-year fellowship — 2024–2028
12. Webster Groves Nature Study Society (WGNSS) Bo Koster Scholarship: $3,000 awarded to **Anna Wassel** — 2023
11. National Science Foundation Graduate Research Fellowship (NSF GRF): $138,000 awarded to **Ethan Abercrombie** for three-year fellowship — 2022–2025
10. George Hayward Plant Biology Graduate Fellowship, WashU: $5,000 awarded to **Anna Wassel** — 2022–2023
9. Maxwell/Hanrahan Foundation Field Work Grant, Missouri Botanical Garden: $1,000 awarded to **Anna Wassel** — 2022
8. American Society of Plant Taxonomists (ASPT) Travel Grant: $500 awarded to **David Henderson** — 2022
7. Botanical Society of America (BSA) Travel Grant: $375 awarded to **David Henderson** — 2022
6. Catharine M. Lieneman Botany Fellowship, WashU: $67,000 awarded to **David Henderson** for two-year fellowship — 2021–2023
5. George Hayward Plant Biology Graduate Fellowship, WashU: $5,000 awarded to **Ethan Abercrombie** — 2021–2022
4. Maxwell/Hanrahan Foundation Field Work Grant, Missouri Botanical Garden: awarded to **David Henderson** — 2021

3. Ecological Society of America (ESA) SEEDS Interdisciplinary Power of Data Research Travel Award: awarded to **David Henderson** 2020–2021
2. William H. Danforth Plant Sciences Fellowship, WashU: $125,000 awarded to **Dilys Vela Díaz** for four-year fellowship 2014–2018
1. Tyson Research Center Graduate Student Research Award, WashU: *The importance of species-pool functional diversity and local disturbance on community assembly*, $3,800 awarded to **Christopher Catano** 2015

Grants, Fellowships & Honors Awarded to Undergraduate Students

11. Summer Undergraduate Research Guided Experience (SURGE) Award, WashU; $5,000 awarded to **Golde Umlas** 2025
10. Charles M. Fullgraf Botany Fellowship & Biology Summer Undergraduate Research Fellowship (BioSURF), WashU: $3,000 awarded to **Lyle Usdin** 2023
9. National Science Foundation Graduate Research Fellowship (NSF GRF): awarded to **Jacqueline Reu** 2023
8. National Science Foundation Graduate Research Fellowship (NSF GRF): Honorable Mention to **Emily DeWald-Wang** 2022
7. National Science Foundation Graduate Research Fellowship (NSF GRF): awarded to **Maya Samuels-Fair** 2020
6. Barry H. Goldwater Scholarship: awarded to **Maya Samuels-Fair** 2019
5. Environmental Studies Grant for Student Research, WashU: *Plant chemical defenses, density dependence, and biodiversity in temperate forests;* $2,698 awarded to **Emily Dewald-Wang** & **Jonathan A. Myers** 2018
4. Lennette Fellowship in Environmental Field Research, WashU: $4,200 awarded to **Emily Dewald-Wang** 2018
3. Biology Summer Undergraduate Research Fellowship (BioSURF), WashU: $4,000 awarded to **Ashley Knudson** 2016
2. Lennette Fellowship in Environmental Field Research, WashU: $4,000 awarded to **Micaela Hyams** 2013
1. Lennette Fellowship in Environmental Field Research, WashU: $4,000 awarded to **Amal Al-Lozi** 2012

Other Grants Awarded to Jonathan Myers (Prior to 2012)

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

Honors, Awards & Other Recognition

Invited Participant in Working Groups & Workshops

- Invited workshop participant, Forest Global Earth Observatory (ForestGEO) Special Session, North American Forest Ecology Workshop (NAFEW), Missoula, Montana, USA (Jun. 23–26) 2026
- Organization for Tropical Studies (OTS) Institutional Representative Workshop Participant, La Selva Biological Station, Costa Rica (May 28–Jun. 1) 2025
- Invited Living Earth Collaborative working group participant – *Urban Heat: Integrating public health perspectives with urban climate resilience*, St. Louis, Missouri, USA (May 21) 2025–2026

- Invited NSF workshop participant – *Diversity and dynamics of herbaceous plant communities in forest ecosystems*, Oak Spring Garden Foundation, Upperville, Virginia, USA (Apr. 12–15) 2023
- Invited NSF workshop participant & member of organizing committee – *Robust methods for estimating conspecific density dependence*, Milwaukee, Wisconsin, USA (May 23–27) 2022
- Invited sDiv working group participant – *sAndes: Tree diversity, composition and carbon storage in Andean tropical montane forests*, German Centre for Integrative Biodiversity Research (iDiv), Leipzig, Germany (Jan. 21–24) 2020
- Invited workshop participant – *Cocha Cashu Vision 2050: Charting a 21st century agenda for a premier tropical research station*, Cocha Cashu Biological Station, Manu National Park, Peru (Jun. 25–Jul. 3) 2019
- Invited sDiv working group participant – *sAndes: Tree diversity, composition and carbon storage in Andean tropical montane forests*, German Centre for Integrative Biodiversity Research (iDiv), Leipzig, Germany (Jan. 22–25) 2019
- Invited NSF workshop participant – *Fire ecology research priorities across space and time*, Future of Fire Workshop, Boulder, Colorado, USA (Nov. 5–8) 2017
- Invited ForestGEO workshop participant – *Integrating functional, phylogenetic and genetic components of diversity for an improved understanding of forest structure, dynamics, and change*, Smithsonian ForestGEO & Chinese Forest Biodiversity Monitoring Network Analytical Workshop, Rio Grande, Puerto Rico (Jul. 16–31) 2017
- Invited ForestGEO workshop participant – *Integrating functional, phylogenetic and genetic components of diversity for an improved understanding of forest structure, dynamics, and change*, ForestGEO, Chinese Academy of Forestry & Academy of Sciences Analytical Workshop, Hainan Island, China (Jul. 7–20) 2016
- Invited ForestGEO workshop participant – *Diversity and forest change – Characterizing functional, phylogenetic and genetic contributions to diversity gradients and dynamics in tree communities*, Smithsonian ForestGEO & Chinese Forest Biodiversity Monitoring Network (CForBio) Analytical Workshop, Gamboa, Panama (workshop attended by post-doc Marko J. Spasojevic) (Jun. 25 – Jul. 9) 2015
- Invited ForestGEO workshop participant – *Diversity and forest change – Characterizing functional, phylogenetic and genetic contributions to diversity gradients and dynamics in tree communities*, Smithsonian ForestGEO & CForBio Analytical Workshop, Xishuangbanna Tropical Botanical Garden, Xishuangbanna, China (Jul. 25 – Aug. 12) 2014
- Invited NCEAS 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, California, USA (Nov. 4–8) 2010

Awards & Honors

- College of Arts & Sciences merit-based raise in recognition of outstanding research productivity and scholarship, WashU 2022
- Graduate Faculty Scholar, University of Central Florida (appointed to serve as external member of Ph.D. thesis committee) 2014–2018
- Recognition for Excellence in Mentoring, WashU 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

News Articles & Popular Press

- Washington University Arts & Sciences Magazine (The Ampersand), "*WashU scientists join 40-year study tracking changing tropical forests*", Feb. 24, 2026 2026
- University of Leeds, "*40 years of tracking trees reveals how global change is impacting Amazon and Andean forest diversity*", Jan. 23, 2026 2026
- Wake Forest News, "*Can Amazon and Andean trees move to survive climate change?*", Aug. 19, 2025 2025
- Washington University Arts & Sciences Magazine (The Ampersand), "*Tropical bounty: How forests can turn into chemical factories*", Apr. 14, 2025 2025
- Earth.com, "*Pawpaw trees form dense patches that outcompete other plants*"; Jan. 11, 2025 2025
- Washington University Newsroom, "*Nothin' but pawpaws in the pawpaw patch*"; Jan. 9, 2025 2025
- Washington University Newsroom, "*Island biodiversity rides on the wings of birds*"; Dec. 3, 2024 2024
- Washington University Arts & Sciences Magazine (The Ampersand), "*Roots of diversity: How underground fungi shape forests*", Nov. 6, 2023 2023
- Penn State News, "*A seed survival story: How trees keep 'friends' close and 'enemies' guessing*", Jun. 29, 2023 2023
- Washington University Newsroom "InDepth" Series, "*Our future hangs in the balance: Climate change and biodiversity loss*"; Apr. 17, 2023 2023
- Washington University Newsroom, "*The space between us – Missouri Ozarks study narrows in on spatial aspects of biodiversity, homogenization threat to forest ecosystems*"; May 31, 2022 2022
- Duke University Nicholas School of the Environment, "*Studies Find the Seeds of a Forest's Renewal After Wildfire, Drought*"; May 2, 2022 2022
- Washington University Arts & Sciences Magazine (The Ampersand), "*Environmental researchers celebrate Earth Month all year – Biodiversity in the Ozarks*"; Apr. 13, 2022 2022
- Duke University Nicholas School of the Environment, "*What's Driving the East-West Divide in Trees' Response to Climate Change?*"; Jan. 24, 2022 2022
- Washington University Newsroom, "*Seed production, recruitment affect how trees are migrating due to climate change*"; Jan. 24, 2022 2022
- Washington University Magazine, "*Andean forests provide an extra set of lungs*"; Dec. 1, 2021 2021
- The Scientist, "*Contrary to Common Belief, Some Older Trees Make Fewer Seeds*"; Nov. 1, 2021 2021
- Washington University Arts & Sciences Magazine (The Ampersand), "*Hot topic: Fire and biodiversity in the Missouri Ozarks*"; Sep. 21, 2021 2021

- Washington University Magazine, "*In search of refuge — Researchers look at whether Ozark oases at Tyson Research Center—climate change refugia—could help species persist in spite of rising temperatures*"; Aug. 17, 2021 2021
- Duke University Nicholas School of the Environment, "*For Larger, Older Trees, It's All Downhill from Here*"; Aug. 16, 2021 2021
- Washington University Newsroom, "*Mountain high: Andean forests have high potential to store carbon under climate change*"; Apr. 19, 2021 2021
- Duke University Nicholas School of the Environment, "*Climate Impacts Drive East-West Divide in Forest Seed Production*"; Feb. 23, 2021 2021
- Washington University Newsroom, "*In fire-prone West, plants need their pollinators — and vice versa*"; Nov. 25, 2020; featured in NSF Research News Dec. 7, 2020 2020
- Washington University Newsroom, "*Birds of a feather better not together – Homogenization threatens ecosystems at larger geographic scales*"; March 3, 2020; featured in NSF Research News Mar. 10, 2020 2020
- Frontiers in Ecology and the Environment, "*Snails nibbling on seedlings may shape forests*"; Apr. 1, 2019: (Buehler 2019 *Frontiers in Ecology and the Environment* 17:137) 2019
- EurekAlert!, "*Inequality is normal: Dominance of the big trees*"; May 8, 2018 2018
- St. Louis Public Radio, "*Researchers say tick numbers related to local terrain*"; May 4, 2018 2018
- Inside Science, "*Explaining Tropical Forests' Astonishing Biodiversity*"; Oct. 12, 2017 2017
- Smithsonian Magazine, "*Why do we see more species in tropical forests? The mystery may finally be solved*"; Jul. 6, 2017 2017
- Smithsonian News Desk, "*Is This the Long-Sought Answer to the Question of Tropical Biodiversity*?"; Jun. 29, 2017 2017
- Washington University Newsroom, "*Global forest network cracks the case of tropical biodiversity*"; Jun. 29, 2017 2017
- St. Louis Public Radio, "*Scientists to burn Ozark forest to see if fire creates better places for wildlife to live*"; Jan. 22, 2017 2017
- Smithsonian News Desk, "*Satellites Detect the Healthy Glow of a Forest with Underground Friends*"; May 2, 2016 2016
- NASA Earth Science News**, "***NASA Satellite Images Uncover Underground Forest Fungi*"; Mar. 31, 2016 2016
- 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*"; Sep. 26, 2014 2014
- St. Louis Post-Dispatch, "*60-acre forest near Eureka joins Smithsonian survey on climate change*"; Jan. 8, 2014 2014
- Washington University Newsroom, "*Tyson designated an Earth Observatory*"; Dec. 4, 2013 2013
- Center for Tropical Forest Science Blog, "*Tyson Research Center Plot joins CTFS-ForestGEO and expands the network to 52 plots worldwide*"; Nov. 15, 2013 2013

Mentoring at Washington University in St. Louis

194 total mentees & **35** thesis committees: **3** post-doctoral researchers; **8** Ph.D. students; **3** visiting Ph.D. students; **5** rotating Ph.D. students; **25** research technicians; **12** undergraduate honors-thesis students; **69** undergraduate students supervised for non-thesis research; **69** high school students supervised for summer field research; **33** graduate-student committees (13 as chair of thesis committee; excluding students advised or co-advised by Myers); **2** undergraduate honors thesis committees; *undergraduate student that presented a research poster or talk at an undergraduate research symposium or professional conference

Post-doctoral Researchers

3. Dr. William Fárhan-Ríos, Living Earth Collaborative Biodiversity Postdoctoral Fellow (co-supervised with J. Sebastián Tello), 2019–2022
   - *Research topic*: Forest responses to climate change from the Andes to the Amazon
   - *Current position*: Research Associate, Center for Energy, Environment & Sustainability, Wake Forest University, NC

2. Dr. Joseph A. LaManna, Tyson Research Center Postdoctoral Fellow, 2015–2018
   - *Research topic*: Biotic interactions & community assembly from local to global scales
   - *Current position*: Assistant Professor, Department of Biological Sciences, Marquette University, WI

1. Dr. Marko J. Spasojevic, Tyson Research Center Postdoctoral Fellow, 2013–2015
   - *Research topic*: Ecological consequences of plant functional diversity across scales
   - *Current position*: Associate Professor, Department of Evolution, Ecology and Organismal Biology, University of California-Riverside, CA

Graduate Students Supervised for Ph.D. Theses

8. Chloe Gehret – Ecology & Evolutionary Biology Program (co-supervised with Dr. Kelly Anderson), 2023–Present (Member of thesis committee from Fall 2025 to present)
   - *Thesis topic*: Belowground functional traits and ecosystem functioning in tropical montane forests

7. Noah Clayton – Ecology & Evolutionary Biology Program (co-supervised with Dr. Rachel Penczykowski), 2023–Present (Member of thesis committee from Fall 2025 to present)
   - *Thesis topic*: Effects of microbial communities and natural enemies on plant coexistence and biodiversity maintenance

6. Justin Baldwin – Ph.D. Ecology & Evolutionary Biology (co-supervised with Dr. Carlos Botero), 2022–2024 (Member of thesis committee from Fall 2021 to Fall 2024)
   - *Thesis*: Advances in avian synthesis: how brains shape the evolution of body size under climate change
   - *Current position*: Postdoctoral Researcher (Martinez Lab), University of California-Santa Cruz, CA

5. Ethan Abercrombie – Ph.D. Ecology & Evolutionary Biology, 2020–2025 (Member of thesis committee from Fall 2022 to Summer 2025)
   - *Thesis*: Montane beta-diversity: Biodiversity through space and time in Earth's most biodiverse regions
   - *Current position*: Environmental Specialist, Eocene Environmental Group, Santa Clara, CA

4. Anna Wassel – Ph.D. Ecology & Evolutionary Biology, 2020–2025 (Member of thesis committee from Fall 2022 to Summer 2025)
    - *Thesis*: Dominant tree species as drivers of forest herb community assembly: The peculiar case of pawpaw (*Asimina triloba*)

3. David Henderson – Ph.D. Ecology and Evolutionary Biology (co-supervised with Dr. J. Sebastián Tello), 2019–2023
    - *Thesis*: Biotic interactions and the maintenance of biodiversity across a tropical elevational gradient
    - *Current & post-doctoral position:* Data Scientist, FreeLance; Research Program Mentor, Polygence, Menlo Park, CA

2. Dilys Vela Díaz – Ph.D. Evolution, Ecology & Population Biology, 2013–2019
    - *Thesis*: Abiotic niche-assembly as a driver of species diversity and relative abundance in temperate and tropical forests
    - *Current & post-doctoral positions*: McNair Scholars Program Administrator, Portland State University, Portland, OR; Microbiomes and Global Change Project Coordinator, Dept. of Ecology and Evolutionary Biology, University of California-Irvine, CA

1. Christopher Catano – Ph.D. Evolution, Ecology & Population Biology, 2014–2019
    - *Thesis*: β-diversity, environmental change, and the stability of regional ecosystems
    - *Current & post-doctoral positions*: Assistant Professor of Plant Community Ecology, Dept. of Botany & Plant Sciences, University of California-Riverside, CA; Postdoctoral Fellow, Dept. of Biology (de Roode Lab), Emory University, GA; Postdoctoral Research Associate, Dept. of Plant Biology (Brudvig Lab), Michigan State University, MI

Undergraduate Students Supervised for Honors Theses

12. Stella Parker*, Environmental Biology Major (3 semesters; Bio 500 Fall 2025, Spring 2026)
    - *Thesis*: Patterns of functional uniqueness in neighborhoods of a forest invader, bush honeysuckle (*Lonicera maackii*)

11. Golde Umlas*, Biology Major, 2025–2026 (3 semesters; Bio 500 Fall 2025, Spring 2026); co-mentored with Noah Clayton (PhD student) and Rachel Penczykowski
    - *Thesis*: How environmental stress and soil microbial communities impact the performance and physiology of native and introduced species of *Plantago*

10. Lyle Usdin*, Environmental Biology Major, 2022–2025 (6 semesters; Bio 500 Fall 2024, Spring 2025); co-mentored with Ethan Abercrombie (PhD student)
    - *Thesis*: Temperature and precipitation drive community composition shifts in a temperate forest over 37 years
    - *Post-graduate positions:* Lotic Monitoring Technician, Bureau of Land Management, Boise, ID

9. Carly Ramacher*, Environmental Biology Major, 2023–2025 (4 semesters; Bio 500 Fall 2024, Spring 2025); co-mentored with Anna Wassel (PhD student)
    - *Thesis*: Community assembly and trait-environment interactions: Do herbs and woody plants differ?
    - *Post-graduate positions:* Research Technician (Cannon Landscape Ecology Lab), The Jones Center At Ichauway, Newton, GA; Research Technician (Myers Lab), Tyson Research Center, Washington University in St. Louis, MO

8. William VanDyke*, Environmental Biology Major, 2023–2025 (4 semesters; Bio 500 Fall 2023, Fall 2024, Spring 2025); mentored by Justin Baldwin (PhD student)
    - *Thesis*: Drivers of Bergmann's Rule in birds across spatio-temporal temperature gradients

7. Joshua Epstein, B.S. Environmental Analysis, 2022–2023 (2 semesters); co-mentored with Dr. Solny Adalsteinsson
    - *Thesis*: Agroforestry Systems as Refuges for Biodiversity – A Comparison of Primary Forest, Agroforest, and Monoculture with Scarabaeinae Dung Beetles as Bioindicators

6. Maya Samuels-Fair*, B.S. Biology – Ecology & Evolution Track, 2017–2020 (7 semesters; Bio 500 Fall 2018, Spring 2019)
    - *Thesis*: Prescribed fire, dispersal and predation interact to influence plant community assembly
    - *Post-graduate degree & positions*: Ph.D. Student, Integrative Biology Program (Finnegan Lab), U. California-Berkeley (2020–Present); Research Assistant, Dept. of Paleobiology, Smithsonian Institution, National Museum of Natural History, Washington, D.C.

5. Emily Dewald-Wang*, B.S. Environmental Biology, 2016–2019 (8 semesters; Bio 500 Fall 2017, Fall 2018, Spring 2019); co-mentored w/ Dr. Joseph LaManna (postdoc)
    - *Thesis*: Plant chemical defenses, density dependence, and biodiversity in a temperate tree community
    - *Post-graduate degree & positions*: M.S., Integrative Biology Program (Koskella Lab), U. California-Berkeley (2020–2023); Research Technician (Koskella Lab), U. California-Berkeley; Research Technician (LaManna Lab), Marquette U., WI

4. Jacqueline Reu*, B.S. Environmental Biology, 2016–2019 (6 semesters; Bio 500 Fall 2018, Spring 2019); co-mentored with Christopher Catano (PhD student)
    - *Thesis*: The scale dependence of biodiversity-ecosystem functioning relationships
    - *Post-graduate positions*: Ph.D. Student, Environmental Science Policy & Management Program, U. California-Berkeley (2023–Present); Research Intern, Smithsonian Marine Station, Fort Pierce, FL; Research Assistant, Smithsonian Marine Invasions Lab, Tiburon, CA

3. Ashley Knudson*, B.S. Environmental Biology, 2014–2017 (7 semesters; Bio 500 Fall 2016); co-mentored with Christopher Catano (PhD student)
    - *Thesis*: Biodiversity-ecosystem function relationships are mediated by the environment and functional trait assembly
    - *Post-graduate positions*: Natural Resource Technician, Washington County, MN; Research Technician (Brudvig Lab), Michigan State U., MI

2. Elizabeth Yablon*, B.S. Environmental Studies – Ecology Track, 2012–2013
    - *Thesis*: Functional traits, environmental gradients and community assembly in a temperate forest
    - *Post-graduate degree & training*: Ph.D. Student, Plant Biology Program (Lau Lab), Michigan State U., MI; M.A., Biology Education, New York U., NY

1. Amal Al-Lozi*, B.S. Environmental Biology, 2011–2012
    - *Thesis*: Unraveling mechanisms of recruitment limitation in temperate forest seedling communities
    - *Post-graduate degree & positions*: Ophthalmology Resident, School of Medicine, Duke U., NC; M.D., U. of Missouri School of Medicine, Columbia, MO

Member of Honors Thesis Committee

2. Sophie Bekins* (2024–2025) Majors: Environmental Analysis & Anthropology; Thesis: The effects of forest type on biodiversity and conservation in the Congo basin

1. Lixuan (Alice) Xu* (2020) – Majors: Environmental Biology & Philosophy; Thesis: The Unified Neutral Theory in Ecology and Idealization in Science; Dept. of Philosophy

Students Supervised for Non-Thesis Research (69 total students from 17 universities)

Students from Washington University in St. Louis (B = Student enrolled in BIOL 500 / 4950)

69. M.J. Phelps* – Environmental Biology Major (Summer 2026)
68. Grace Wereley-Bross* – Environmental Analysis (Summer 2025)
67. Stella Parker* – Biology (Summer–Fall 2025[B], Spring 2026[B])
66. Golde Umlas* – Biology (Summer–Fall 2025[B], Spring 2026[B]); mentored by Noah Clayton (PhD student)
65. Sam Ko* – Environmental Biology (Summer 2024); mentored by Anna Wassel (PhD student)
64. Norah Alhusayni* – Environmental Biology (Summer 2024); mentored by Chloe Gehret (PhD student) (Spring 2026[B])
63. Lucy Burns* – Environmental Science (Summer 2024);
62. Andrew Rothschild* – Environmental Science (Summer 2024)
61. Erin Prein* – Environmental Earth Science & Education (Summer 2024)
60. Carly Ramacher* – Environmental Biology Major (Fall 2023–Summer 2024[B])
59. Jacob Cummings* – Environmental Biology Major (Summer 2023)
58. Sophie Dorosin* – Environmental Science Major (Summer 2023)
57. Mesa Fitzgerald* – Environmental Biology Major (Summer 2023)
56. Jonathan Liu* – Biology Major (Ecology/Evolution Track) (Summer 2023)
55. Maya Irvine* – Biology Major (Summer 2023); mentored by Anna Wassel (PhD student)
54. Liana Van Zen* – Biology Major (Ecology/Evolution Track) (Summer 2023); mentored by Anna Wassel (PhD student)
53. Lyle Usdin* – Environmental Biology Major (Fall 2022–Spring 2025[B]); co-mentored with Ethan Abercrombie (PhD student)
52. Santiago Gonzalez Navarrine – Environmental Biology Major (Fall 2022)
51. Samantha Kaiser – Math and Computer Science Major (Summer 2022); co-mentored w/ Anna Wassel (PhD student)
50. Ari Djemal Rukin – Biology Major (Summer 2022); co-mentored w/ Anna Wassel (PhD student)
49. Lixuan (Alice) Xu – Environmental Biology & Philosophy Major (Summer 2019)
48. Arden Brewer – Biology and Political Science Major (Summer 2018)
47. Jacob Amme – Biology Major (Summer 2018)
46. Kristen Riedinger – Chemistry Major (Summer 2018)
45. Paul Elliott – Environmental Biology Major (Summer 2018, Fall 2018[B])
44. Saransh Gothi – Environmental Biology Major (Summer 2018)
43. Emma Waltman* – Biology Major (Ecology/Evolution Track) (Summer 2017)
42. Liam Engel – Biology Major (Ecology/Evolution Track) (Summer 2017)
41. Mariel Lutz – Environmental Biology Major (Summer 2017)
40. Alexandra Porter* – Computer Engineering Major (Summer 2015, Summer 2016)
39. Iris Seto – Environmental Biology Major (Summer 2016)
38. Jaron Cook – Environmental Earth Science Major (Summer 2016)
37. Alison Palmer* – Environmental Biology Major (Summer 2015)
36. Diana Jerome* – Environmental Biology Major (Summer 2015)
35. Evan Alger-Meyer* – Geology Major (Summer 2015)

34. Michael Gjelsten* – Applied Mathematics Major (Summer 2015); mentored by Christopher Catano (PhD student)
33. Patricia Chen* – Environmental Earth Sciences Major (Summer 2015); mentored by Christopher Catano (PhD student)
32. Emily Wen – Environmental Biology Major (Spring 2014, Summer 2014)
31. Jamal Gaddis – Environmental Biology Major (Summer 2014)
30. Katherine Harline* – Biology Major (Fall 2013; Spring, Summer & Fall 2014)
29. Mary Gardner – Environmental Biology Major; Lennette Fellowship in Environmental Field Research (Spring 2014[B], Summer 2014)
28. Anna Liang – Environmental Biology Major (Summer 2013)
27. Jacqueline Treiger – Environmental Biology Major (Summer 2013)
26. Micaela Hyams – Environmental Biology Major; Lennette Fellowship in Environmental Field Research (Summer 2013)
25. Vanessa Hensley – Environmental Studies Major (Summer 2012)
24. Madeline Salzman – Environmental Studies Major (Biology/Ecology Track) (Summer 2011)
23. Merrill Rudd– Environmental Studies Major (Biology/Ecology Track) (Summer 2011)

Students from Institutions Other than Washington University in St. Louis

22. Allison Schenewerk* – Biology Major, Saint Louis University, St. Louis, MO (Summer 2026)
21. Madelyn Crossen* – Ecology, Evolution & Behavior Major; University of Minnesota–Twin Cities, Minneapolis, MN (Summer 2026)
20. Louis Paese* – Forestry Major, University of Vermont, Burlington, VT (Summer 2025)
19. Bethany Deffenbaugh* – Biology Major (Conservation Certificate Program), University of Missouri St. Louis, MO (Summer 2024); mentored by Anna Wassel (PhD student)
18. Blue Schade* – Marine Science Major (Marine Biology Concentration), University of Maine, ME (Summer 2024); mentored by Anna Wassel (PhD student)
17. Rachel Derner* – Environmental Science Major (Natural Resources Science and Management Concentration), University of Missouri, Columbia, MO (Summer 2024, Summer 2025)
16. Mary Hruz* – Forestry Major, Iowa State University (Summer 2023); mentored by Anna Wassel (PhD student)
15. Nathaniel Doty – Environmental Science Major, University of Virginia (Summer 2022); co-mentored w/ Anna Wassel (PhD student)
14. Maura Collins* – Washington College, MD (Summer 2022); co-mentored w/ Anna Wassel (PhD student)
13. Annie Grimshaw – Environment and Resource Management Major, Arizona State University, AZ (Summer 2021)
12. Katie Skinker – Environmental Science Major, Southeast Missouri State University, Cape Girardeau, MO (Summer 2019)
11. Max Yusen – Environmental Sciences, Policy & Management Major, University of Minnesota Twin Cities, Minneapolis, MN (Summer 2019)
10. Eli Mennerick – Yale University, New Haven, CT (Summer 2018)
9. Melanie Grasso – Environmental Science (Biology) Major, Southeast Missouri State University, Cape Girardeau, MO (Summer 2018)
8. Hayley Huntley* – Environmental Policy Major, Southeast Missouri State University, Cape Girardeau, MO (Summer 2017)
7. Adam Vorel – Education Major, Maryville University, St. Louis, MO (Summer 2016)
6. Camila Chiriboga – Biology Major, Missouri State University, Springfield, MO (Summer 2016)
5. Vincent Spradling – Environmental Studies Major, McKendree University, Lebanon, (Summer 2016)
4. Maria Weston* – Biology Major, Northern Illinois University, DeKalb, IL (Summer 2015)

3. Tess Rogers* – Ecology, Evolution & Animal Behavior Major, University of Minnesota Twin Cities, Minneapolis, MN (Summer 2015)
2. Dev Harrington – Ecology, Evolution & Environmental Biology Major, Columbia University, New York, NY (Summer 2013, Summer 2014)
1. Eduardo Koerich Nery – Biology Major, Brazil Scientific Mobility Program & Indiana University, Bloomington, IN (Summer 2014)

Research Technicians Supervised

25. Emma Thomson (2026); B.S. Environmental Studies, U. of Michigan, Ann Arbor, MI
24. Julia Erker (2026); B.S. Environmental Science, Saint Louis University, St. Louis, MO
23. Lucy Burns (2026); B.A. Environmental Science, WashU, St. Louis, MO
22. Carly Ramacher (2025); B.S. Environmental Biology, WashU, St. Louis, MO
21. Mesa Fitzgerald (2024); B.S. Environmental Biology, WashU, St. Louis, MO
20. Gibson Blankenship (2023–2024); B.S. Natural Resources, U. of Illinois Urbana-Champaign
19. Evan Parker (2023); B.S. Environmental Studies, Yale University, New Haven, CT
18. Leonel Caceres Quintanilla (2023); B.S. Biology, Davidson College, Davidson, NC
17. Elliot Smith (2023); B.S. Ecology, Evolution & Biodiversity, U. of Michigan, Ann Arbor, MI
16. Erin O'Connell (2019–2021); M.S. Integrated Biosciences, U. of Minnesota Duluth, MN
15. Paul Elliott 2019–2021); B.S. Environmental Biology, WashU, St. Louis, MO
14. Charlotte DiBiase (2021); B.A. Organismal Biology & Ecology, Colorado College, CO
13. Anahi Gamboa (2019–2020); B.S. Environmental Science, Southeast Missouri State U., MO
12. Anna Wassel (2019); B.S. Environmental Science, Emory University, Atlanta, GA
11. Race Stryker (2018); B.A. Environmental Studies, New College of Florida, Sarasota, FL
10. Sera Holland (2018); B.S. Forest Resource Management, U. of Missouri, Columbia, MO
9. Benjamin Chase (2017–2018); B.S. Biology & Environmental Science, Stetson U., Deland, FL
8. Michael Lehmann (2017); M.S. Marine Environmental Science, Nova Southeastern U., FL
7. Becky Roper (2016–2017); M.S. Biological Sciences, Texas Tech University, Lubbock, TX
6. Jocelyn Frazelle (2016); B.A. Environmental Studies, University of Illinois Springfield, IL
5. Aaron Steinberg (2016); B.A. Biology, Hendrix College, Conway, AR
4. Maranda Walton (2013–2016); B.S. Biology, University of Missouri-St. Louis, St. Louis, MO
3. Edgar Javier Hernandez (2013); PhD Ecology, Evolution, Systematics, U. Missouri St. Louis
2. Jennifer Kidson (2013); B.S. Biology, Principia College, Elsah, IL
1. Brett Decker (2012)

Visiting Graduate Students

3. Eduardo Aguirre-Mazzi – M.S. Student, Universidad Mayor de San Andres, Bolivia; Sep–Dec 2020 (Attended virtual Myers-Tello joint lab meetings in Fall 2020)
2. Sebastián González-Caro – Ph.D. Student, Universidad Nacional de Colombia, Colombia (advisor: Dr. Alvaro Duque); Mar–Sep 2019 (co-hosted with Dr. J. Sebastían Tello)
1. Trace Martyn – Ph.D. Student, University of Queensland, Australia (advisor: Dr. Margaret Mayfield); May–Jun 2019

Graduate Students Supervised for Research Rotations

5. Sean McHugh – Rotating Ph.D. student, Spring 2022
4. James (Lucas) Ojascastro – Rotating Ph.D. student, Summer 2017
3. Marshall Wedger – Rotating Ph.D. student, Fall 2016
2. Rachel Becknell – Rotating Ph.D. student, Spring 2016
1. Vincent J. Fasanello – Rotating Ph.D. student, Fall 2015

Graduate Student Committees (excluding students advised or co-advised by Myers; *Myers served/serves as chair of committee; EEB = Ecology and Evolutionary Biology; EEPB = Evolution, Ecology and Population Biology)

Current, at Washington University in St. Louis

33. Tasman Ezra (EEB)*, Spring 2026-Present
32. Preston Pennington (EEB)*, Spring 2025-Present
31. Sean McHugh (EEB), Spring 2024-Present
30. Lauren Johnson (EEB), Spring 2024-Present

Previous, at Washington University in St. Louis

29. Eduardo Aguirre-Mazzi (EEB)*, Fall 2023-Summer 2026
28. Sarah Swiston (EEB), Fall 2022-Spring 2026
27. Jhan Salazar (EEB), Fall 2024-Spring 2025
26. Philippa Tanford – Ph.D. awarded 2025 (EEB)*, Fall 2020-Spring 2025
25. Israt Jahan – Ph.D. awarded 2025 (EEB)*, Summer 2021-Spring 2025
24. Shreenidhi Perukkaranai Madabhushi – Ph.D. awarded 2024 (EEB)*, Fall 2020-Fall 2024
23. Rhiannon Vargas – Ph.D. awarded 2023 (EEB)*, Summer 2020-Spring 2024
22. James (Lucas) Ojascastro – Ph.D. awarded 2023 (EEB)*, Spring 2019-Fall 2023
21. Quinn Fox – Ph.D. awarded 2023 (EEB)*
20. Vincent Fasanello – Ph.D. awarded 2021 (EEPB)*
19. Rachel Becknell – Ph.D. awarded 2021 (EEPB)*
18. David Goad – Ph.D. awarded 2021 (EEPB)
17. Rachel Lyman – Ph.D. awarded 2021 (EEPB)*
16. Sara Wright – Ph.D. awarded 2019 (EEPB)
15. Katherine Geist – Ph.D. awarded 2019 (EEPB)
14. Holly Bernardo – Ph.D. awarded 2018 (EEPB)*
13. Boahemaa Adu-Oppong – Ph.D. awarded 2017 (EEPB)
12. Jennifer Gruhn – Ph.D. awarded 2016 (EEPB)
11. Emma Moran – Ph.D. awarded 2016 (EEPB)
10. Erica Pehrsson – Ph.D. awarded 2015 (Computational & Systems Biology)
9. Matthew Schuler – Ph.D. awarded 2015 (EEPB)
8. Molly Gibson – Ph.D. awarded 2015 (Computational & Systems Biology)
7. Lauren Woods – Ph.D. awarded 2014 (EEPB)
6. Kristin Powell – Ph.D. awarded 2013 (EEPB)
5. Nicholas Kooyers – Ph.D. awarded 2013 (EEPB)

Previous, at Institutions other than Washington University in St. Louis

4. Jeremy Howard – Ph.D. awarded 2026, University of Missouri-St. Louis, MO (adviser: Dr. Amy Dunlap), Jan. 2022-Jul. 2026
3. Emily Morris – Ph.D. awarded 2025, Saint Louis University, MO (adviser: Dr. Alice Tipton), Dec. 2020-Apr. 2025
2. Amanda Wu – Ph.D. awarded 2022, University of Missouri-St. Louis, MO (adviser: Dr. Robert Ricklefs)
1. Jason Schroeder – Ph.D. awarded 2018, University of Central Florida, FL (adviser: Dr. David Jenkins)

High School Students Supervised for Field Research at Tyson Research Center
69 total students from 29 high schools in the St. Louis area; *Participant in SIFT and TERA Programs; **Participant in TERA and Tyson Undergraduate Fellows Program

Tyson Environmental Research Apprenticeship (TERA) Program, Tyson Research Center

Adam Vorel** (Eureka High School; 2013–2014) • Adil Hassan (Parkway West High School; 2012) • Aidan Kelly (St. Louis University High School; 2011) • Aidan Zaza (Lutheran High School South; 2023) • Albert Wang (Clayton High School; 2015) • Alexander Duchild (Eureka High School; 2012) • Amy Stimmel* (Marquette High School; 2017) • Annie Grimshaw (Eureka High School; 2019) • Calvin Schaefer (Metro Academic and Classical High School; 2016) • Casimir Buttar-Miller (Clayton High School; 2019) • Ciara Shaffer* (Northwest; 2015) • Clayton Hillermann (Eureka High School; 2013–2014) • Dasha Malkova* (Ladue Horton Watkins High School; 2014) • Dev Harrington** (Metro Academic and Classical High School; 2011–2012) • Devin Haas (Marquette High School; 2016) • Ellen Sulser (Kirkwood High School; 2013–2014) • Farhan Hassan (Parkway West High School; 2018) • Hannah Barry (Washington High School; 2018) • Hannah Walkowski* (Fort Zumwalt North High School; 2013–2014) • Hayley Huntley** (Eureka Senior High School; 2016) • Ishan Singh (Lafayette High School; 2017) • Juan Alega (Francis Howell North; 2018) • Kelly Mckinley (Rosati Kain; 2010) • Kevin Qi (Lafayette High School; 2017) • Marie Manzo (Academic and Classical High School; 2011) • Marlie Duggin (Maplewood Richmond Heights High School; 2025) • Matthew Andrews (2024) • Max Margherio (St. Louis University High School; 2010) • Mya Miranda (Hazelwood West High School; 2016) • Nicole Schade (Parkway West High School; 2022) • Paige Waskow (The Collegiate School of Medicine and Bioscience; 2017) • Peter Irvin (Christian Brothers College High School; 2022) • Sienna Staten (Kirkwood High School; 2025) • Thomas Hogancamp (Eureka High School; 2012) • Vlada Gladun (Fort Zumwalt North; 2018) • Zach Rhodes (Francis Howell North; 2011) • Zo Benz (Eureka High School; 2023)

Shaw Institute for Field Training (SIFT) Program, Missouri Botanical Garden

Adina Cazacu-DeLuca (John Burroughs School; 2018) • Amy Stimmel* (Marquette High School; 2016) • Bailee Warsing (Granite City; 2014) • Ben Difani (Rockwood Summit High School; 2013) • Carly Steffan (Parkway North; 2013) • Chris Dye (Marquette; 2013) • Ciara Shaffer* (Northwest; 2014) • Dasha Malkova* (Ladue Horton Watkins High School; 2013) • Elizabeth King (St. Francis Borgia High School; 2012) • Esha Sharma (Parkway North High School; 2016) • Genesis Dancer (Fort Zumwalt North High School; 2016) • Hank McCrimmon (Eureka High School; 2013) • Hank Warner (Lindbergh High School; 2021) • Hannah Kruse (Fort Zumwalt North High School; 2012) • Hannah Walkowski* (Fort Zumwalt North High School; 2012) • Hiba Al-Ramahi (Oakville High School; 2016) • Isaac Freeman (Marquette High School; 2020) • Jamielee Buenemann (Washington High School; 2012) • Jenita Larry (Hazelwood West; 2014) • Johannes Schrader (Francis Howell High School; 2012) • Jonathan Winkler (Christian Brothers College; 2012) • Katie Buatois (Eureka High School; 2014) • Kyle Lang (Marquette High School; 2013) • Lexie Beckermann (Eureka Beckerman; 2014) • Maddie Rhodes (Rockwood Summit High School; 2021) • Matilda Workman (Kirkwood High School; 2014) • Maura Collins* (Parkway West High School; 2020) • Menkahre Rawlins (Grand Center Arts Academy; 2018) • Megan Kerr (John F. Kennedy Catholic High School; 2014) • Michaela Quist (Marquette; 2013) • Nicole Wang (Parkway West High School; 2016) • Owen Kathriner (Kirkwood High School; 2016) • Peter Irvin (Christian Brothers College High School; 2021) • Peter Volmert (St. Louis University High School; 2013) • Suraj Puvvada (Lafayette High School; 2012) • Xinhu He (Ladue Horton Watkins High School; 2014)

Teaching at Washington University in St. Louis

Courses Taught as Course Master (*two course sections)

Course	Units	Number of Students			Semester
		Total	Undergraduate	Graduate	
Community Ecology (BIOL 4197/5194)	3	24	18	6	FL 2025
R Workshop in Biology (BIOL 3100)*	3	15	15	0	FL 2025
Community Ecology (BIOL 419)	3	22	18	4	FL 2024
R Workshop in Biology (BIOL 3100)*	1	35	35	0	FL 2024
Community Ecology (BIOL 419)	3	33	25	8	FL 2023
R Workshop in Biology (BIOL 3100)*	1	25	25	0	FL 2023
Community Ecology (BIOL 419)	3	18	15	3	FL 2022
R Workshop in Biology (BIOL 3100)*	1	27	25	2	FL 2022
Community Ecology (BIOL 419)	3	22	15	7	FL 2021
R Workshop in Biology (BIOL 3100)*	1	35	31	4	FL 2021
Community Ecology (BIOL 419)	3	23	12	11	FL 2020
R Workshop in Biology (BIOL 3100)*	1	33	30	3	FL 2020
Community Ecology (BIOL 419)	3	20	16	4	SP 2019
R Workshop in Biology (BIOL 3100)*	1	38	33	5	FL 2018
Community Ecology (BIOL 419)	3	21	20	1	SP 2018
R Workshop in Biology (BIOL 3100)*	1	29	29	0	FL 2017
Community Ecology (BIOL 419)	3	18	12	6	SP 2017
R Workshop in Biology (BIOL 3100)	1	23	23	0	FL 2016
Community Ecology (BIOL 419)	3	15	9	6	SP 2016
Seminar in Ecology (BIOL 580)	1	10	0	10	SP 2016
R Workshop in Biology (BIOL 3100)	1	19	19	0	FL 2015
Community Ecology (BIOL 419)	4	11	9	2	SP 2015
Practical Skills in Environmental Biology Research (BIOL 393)	2	6	6	0	SP 2015
R Workshop in Biology (BIOL 493)	1	7	5	2	FL 2014
Community Ecology (BIOL 419)	3	19	15	4	SP 2014

Invited Course Speaker or Participant

Course	Course Contribution	Semester (# students)
Seminar in Population Biology (BIOL 5800)	Invited discussion leader	Fall 25 (8)
Introduction to Environmental Biology	Invited speaker: "*Exploring the ecology of forest ecosystems from local to global scales*"	Fall 25 (42)
The Law of Fire & Flood: The Mississippi River Basin and Beyond (LAW 823A), WashU	Invited speaker: "*Fire ecology in a changing world: Insights from forest ecosystems*"	Fall 24 (25)
Methods in Forest Ecology (BIOL 4804), University of Minnesota-Duluth	Invited interviewee for class research project on ForestGEO	Fall 22 (16), Fall 24 (10)
Topics in Ecology, Evolution, and Population Biology (BIOL 598), WashU	Invited speaker; course coordinator (Fall 2025)	Fall 21 (8), 22 (3), 23 (6), 24 (5)
College Writing 1: Citizen Scientist (CWP 112), WashU	Invited interviewee for student paper on ecology	Spring 21 (12)

Mechanical Engineering Design Project (MEMS 411), Dept. of Mechanical Engineering & Materials Science, WashU	Invited interviewee for class research project on field-sampling methods	Spring 21 (8)
Woody Plants of Missouri (BIOL 3220), WashU	Invited speaker: "*Forest ecology in the Missouri Ozarks and beyond*"	Spring 20 (10)
Freshman Seminar in Biology (BIOL 181), WashU	Invited speaker: "*The causes and consequences of biodiversity in our changing world*"	Fall 13 (50), 14 (41), 15 (41), 16 (50), 17 (30)
Seminar for first-year students in the Honorary Scholars Compton, Mylonas, Moog & Lien (CMML) Program, WashU	Invited speaker: "*What creates and maintains biodiversity across scales?*"	Spring 17 (12)
Practical Skills in Environmental Biology Research (BIOL 393), WashU	Invited speaker: "*Biodiversity and community assembly: Are temperate and tropical forests as different as we think they are?*"	Spring 13 (6)
The Tyson Seminar: Grounding Research in Nature (Freshman Seminar – GeSt 160), WashU	Invited speaker	FL 12 (10), 13 (16), 14 (9)

Presentations (see Appendix 1 for Full Citations):

- **205** total presentations: **42** invited; **59** contributed as first author or senior (last) author; **27** contributed as co-author; **34** at the WashU Undergraduate Research Symposium; **30** at the Tyson Research Center Summer Research Symposium (undergraduate and high school research symposium); **13** at the Tyson Research Center Environmental Research Fellowship Symposium (high school research symposium); list of 77 presentations at undergraduate and high school research symposia available by request
- Current & former members of my research group: ***undergraduate student; **graduate student; *postdoc.
- Abbreviations: ATBC = Association for Tropical Biology and Conservation; BES = British Ecological Society; CTFS-ForestGEO = Smithsonian Center for Tropical Forest Science-Forest Global Earth Observatory; ESA = Ecological Society of America; MBG = Missouri Botanical Garden; SLEEC = St. Louis Ecology, Evolution & Conservation Consortium; WashU = Washington University in St. Louis

Invited Presentations

42. North American Forest Ecology / ForestGEO Workshop, Missoula, Montana, USA 2026
41. Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang, China 2026
40. The Jones Center at Ichauway, Newton, Georgia, USA 2025
39. University of California, Riverside, California, USA 2025
38. ForestGEO Virtual Seminar Series (presenter: Anna Wassel**) 2025
37. WashU Center for the Environment Collaboration Series, St. Louis, Missouri, USA 2024
36. Plenary, Midwest Ecology & Evolution Conference, Edwardsville, Illinois, USA 2024
35. University of Wyoming, Laramie, Wyoming, USA 2024
34. SUNY College of Environmental Science & Forestry, Syracuse, New York, USA 2024
33. NSF Workshop – Diversity & Dynamics of Forest Herbs, Upperville, Virginia, USA 2023
32. University of Florida, Gainesville, Florida, USA 2022
31. ESA 106th Meeting – Virtual Meeting (Organized Oral Session) 2021
30. The Jones Center at Ichauway, Newton, Georgia, USA 2019
29. Silva Tarouca Research Institute, Brno, Czech Republic 2019
28. University of Maryland, College Park, Maryland, USA 2018

27. University of Illinois at Urbana-Champaign, Urbana, Illinois, USA 2018
26. Missouri University of Science & Technology, Rolla, Missouri, USA 2018
25. ESA 103rd Meeting, New Orleans, Louisiana, USA (Organized Oral Session) 2018
24. WashU Environmental Studies Dinner Discussion, St. Louis, Missouri, USA 2018
23. University of Kansas, Lawrence, Kansas, USA 2017
22. MBG 64th Fall Symposium, St. Louis, Missouri, USA 2017
21. CTFS-ForestGEO Workshop, Rio Grande, Puerto Rico 2017
20. University of Georgia, Odum School of Ecology, Athens, Georgia, USA 2016
19. Clemson University, Clemson, South Carolina, USA 2016
18. CTFS-ForestGEO & Chinese Academy of Sciences Workshop, Hainan Island, China 2016
17. University of Missouri, St. Louis, Missouri, USA 2015
16. University of Missouri, Columbia, Missouri, USA 2015
15. Missouri Native Plant Society, St. Louis, Missouri, USA 2015
14. CTFS-ForestGEO Workshop, Xishuangbanna, China 2014
13. Montana State University, Bozeman, Montana, USA 2013
12. Southern Illinois University, Edwardsville, Illinois, USA 2013
11. University of Missouri, St. Louis, Missouri, USA 2013
10. Saint Louis University, St. Louis, Missouri, USA 2013
9. Murray State University, Murray, Kentucky, USA 2012
8. Tyson Research Center, Eureka, Missouri, USA 2012
7. University of Missouri, Columbia, Missouri, USA 2011
6. SLEEC 1st Retreat, Tyson Research Center, Eureka, Missouri, USA 2011
5. WashU, Dept. of Biology, St. Louis, Missouri, USA 2011
4. WashU, (Dept. of Biology, St. Louis, Missouri, USA 2009
3. Louisiana State University, Baton Rouge, Louisiana, USA 2008
2. ESA 90th Meeting, Montreal, Canada (Organized Oral Session) 2005
1. Smithsonian Tropical Research Institute, Barro Colorado Island, Panama 2003

Contributed Presentations – First Authored or Senior (Last) Authored

59. ESA 111th Meeting, Salt Lake City, Utah, USA (N. Clayton**) 2026
58. ESA 110th Meeting, Baltimore, Maryland, USA (A. Wassel**) 2025
57. ESA 110th Meeting, Baltimore, Maryland, USA (C. Ramacher***) 2025
56. BES Annual Meeting, Liverpool, England (J.A. Myers) 2024
55. Gordon Research Conference, New Hampshire, USA (E.R. Abercrombie**) 2024
54. ESA 109th Meeting, Long Beach, California, USA (A. Wassel**) 2024
53. International Association for Landscape Ecology Meeting, California, USA (J.J. Hen) 2023
52. BES Annual Meeting, Edinburgh, Scotland (J.A. Myers) 2022
51. Botanical Society of America Conference, Alaska, USA (D. Henderson**) 2022
50. ESA 106th Meeting, Montreal, Canada (A. Wassel**) 2022
49. ESA 106th Meeting, Montreal, Canada (J.J. Hen) 2022
48. ATBC Meeting – Virtual Meeting (W. Fárhan-Ríos*) 2021
47. ESA 105th Meeting – Virtual Meeting (W. Fárhan-Ríos*) 2020
46. ESA 105th Meeting – Virtual Meeting (D. Henderson**) 2020
45. ESA 104th Meeting, Louisville, Kentucky, USA (M.D. Samuels-Fair***) 2019
44. ESA 104th Meeting, Louisville, Kentucky, USA (Jacqueline C. Reu***) 2019
43. ESA 104th Meeting, Louisville, Kentucky, USA (E.A. Dewald-Wang***) 2019
42. Midwest Ecology & Evolution Conference, Indiana, USA (E.A. Dewald-Wang***) 2019
41. ATBC 55th Meeting, Kuching, Sarawak, Malaysia (J.A. Myers) 2018
40. ESA 103rd Meeting, New Orleans, Louisiana, USA (C.P. Catano**) 2018
39. ESA 103rd Meeting, New Orleans, Louisiana, USA (D.M. Vela Díaz**) 2018
38. SLEEC 8th Retreat, Maryville University, St. Louis, Missouri, USA (C.P. Catano**) 2018

37. MidStates Consortium for Math & Science, Illinois, USA (E. Dewald-Wang***) 2018
36. ESA 102nd Meeting, Portland, Oregon, USA (C.P. Catano**) 2017
35. ESA 102nd Meeting, Portland, Oregon, USA (A.J. Knudson***) 2017
34. ESA 102nd Meeting, Portland, Oregon, USA (J.A. LaManna*) 2017
33. MBG 64th Fall Symposium, St. Louis, MO (C.P. Catano**) 2017
32. SLEEC 7th Retreat, Saint Louis University, Missouri, USA (D.M. Vela Díaz**) 2017
31. ATBC 53rd Meeting, Montpellier, France (D.M. Vela Díaz**) 2016
30. ESA 101st Meeting, Fort Lauderdale, Florida, USA (J.A. LaManna*) 2016
29. SLEEC 6th Retreat, Principia College, Elsah, Illinois, USA (J.A. LaManna*) 2016
28. SLEEC 6th Retreat, Principia College, Elsah, Illinois, USA (D.M. Vela Díaz**) 2016
27. I-CARES Research Symposium, WashU, St. Louis, Missouri, USA (J.A. Myers) 2016
26. BES Annual Meeting, Edinburgh, Scotland (J.A. Myers) 2015
25. ESA 100th Meeting, Baltimore, Maryland, USA (J.A. Myers) 2015
24. ESA 100th Meeting, Baltimore, Maryland, USA (talk: M.J. Spasojevic*) 2015
23. ESA 100th Meeting, Baltimore, Maryland, USA (C.P. Catano**) 2015
22. Danforth Plant Science Center & MBG Symposium, Missouri, USA (D.M. Vela Díaz**) 2015
21. Danforth Plant Science Center & MBG Symposium, Missouri, USA (C.P. Catano**) 2015
20. Danforth Plant Science Center & MBG Symposium, Missouri, USA (J.A. LaManna*) 2015
19. SLEEC 5th Retreat, Saint Louis Zoo, St. Louis, Missouri, USA (C.P. Catano**) 2015
18. SLEEC 5th Retreat, Saint Louis Zoo, St. Louis, Missouri, USA (J.A. LaManna*) 2015
17. 11th Annual Postdoc Symposium, WashU, St. Louis, Missouri, USA (M.J. Spasojevic*) 2015
16. ESA 99th Meeting, Sacramento, California, USA (M.J. Spasojevic*) 2014
15. I-CARES Research Symposium, WashU, St. Louis, Missouri, USA (J.A. Myers) 2014
14. WashU Plant Biology Retreat, St. Louis, Missouri, USA (D.M. Vela Díaz**) 2014
13. ATBC 50th Anniversary Meeting, San José, Costa Rica (J.A. Myers) 2013
12. SLEEC 3rd Retreat, Saint Louis Zoo, St. Louis, Missouri, USA (M.J. Spasojevic*) 2013
11. ESA 97th Meeting, Portland, Oregon, USA (A. Al-Lozi***) 2012
10. ESA 96th Meeting, Austin, Texas, USA (J.A. Myers) 2011
9. Botanical Society of America Conference, St. Louis, Missouri, USA (J.A. Myers) 2011
8. International Biogeography Society 5th Conference, Crete, Greece (J.A. Myers) 2011
7. MidStates Consortium for Math & Science Symposium, Illinois, USA (A. Al-Lozi***) 2011
6. ESA 95th Meeting, Pittsburgh, Pennsylvania, USA (J.A. Myers) 2010
5. ESA 94th Meeting, Albuquerque, New Mexico, USA (J.A. Myers) 2009
4. ESA 93rd Meeting, Milwaukee, Wisconsin, USA (J.A. Myers) 2008
3. ESA 91st Meeting, Memphis, Tennessee, USA (J.A. Myers) 2006
2. ESA 89th Annual Meeting, Portland, Oregon, USA (J.A. Myers) 2004
1. Northeast Natural History Conference VII, Albany, New York, USA (J.A. Myers) 2003

Contributed Presentations – Co-Authored

27. ESA 111th Meeting, Salt Lake City, Utah, USA (Z. Mijango-Ramos) 2026
26. Forest Spatial Analysis Technologies (ForestSAT) Conference, FL, USA (E. Braun) 2026
25. International Mountain Conference, Vienna, Austria (K. Feeley) 2025
24. ESA 107th Meeting, Portland, Oregon, USA (A. Weiler) 2023
23. ESA 106th Meeting, Montreal, Canada (E.R. Abercrombie**) 2022
22. International Conference on Mycorrhiza, Beijing, China (C. Delavaux) 2022
21. ATBC Meeting – Virtual Meeting (J.S. Tello) 2021
20. ESA 105th Meeting – Virtual Meeting (J.S. Sharma) 2020
19. ESA 105th Meeting – Virtual Meeting (J.S. Clark) 2020
18. Botanical Society of America Conference, Tucson, Arizona, USA (B. Oberle) 2019

17. XII Congreso Latinoamericano de Botánica, Quito, Ecuador (J.S. Tello) 2018
16. American Association for Aerosol Research, North Carolina, USA (A. Dang) 2017
15. International Congress of Entomology / Entomological Society of America XXV Meeting, Orlando, Florida, USA (Organized Oral Session; L.A. Burkle) 2016
14. ESA 100th Meeting, Maryland, USA (Organized Oral Session; D.J. Johnson) 2015
13. ESA 99th Meeting, Sacramento, California, USA (L.A. Burkle) 2014
12. MBG 60th Fall Symposium, St. Louis, Missouri, USA (J.S. Tello) 2013
11. ESA 98th Meeting, Minneapolis, Minnesota, USA (A.M. Milo) 2013
10. ATBC 50th Anniversary Meeting, San José, Costa Rica (J.S. Tello) 2013
9. ESA 97th Meeting, Portland, Oregon, USA (K.F. Davies) 2012
8. ESA 97th Meeting, Portland, Oregon, USA (B. Oberle) 2012
7. ESA 97th Meeting, Portland, Oregon, USA (J.S. Tello) 2012
6. International Biogeography Society 5th Conference, Crete, Greece (J.M. Chase) 2011
5. International Fire Ecology & Management Congress, Georgia, USA (P.R. Gagnon) 2009
4. U.S.-Japan Cooperative Science Program, Nikko, Japan (K. Kitajima) 2007
3. ESA 92nd Meeting, San Jose, California, USA (H.A. Passmore) 2007
2. ESA 88th Meeting, Savanna, Georgia, USA (M. Vellend) 2003
1. ESA 86th Meeting, Madison, Wisconsin, USA (M.J. Twery) 2001

Professional Service

Invited Member of Editorial Board, Grant Review Panels, and Reviewer for National and International Granting Agencies (NSF = National Science Foundation; USDA = United States Department of Agriculture)

- Ad Hoc Reviewer for Grant Proposals (15 invitations accepted): NSF Population & Community Ecology (2016, 2017, 2018, 2022, 2024); NSF Dimensions of Biodiversity (2019); NSF Research Coordination Networks (RCN) (2023); NSF Ecosystem Science (2018); NSF Biological Oceanography (2011); United States Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA) McIntire-Stennis Capacity Grant Program (2025); Alexander von Humboldt Foundation, Germany (2019); Estonian Research Council (ETAg) (2015) • ETH Zurich Research Commission, Switzerland (2015); Israel Science Foundation (ISF) (2019) 2011–2025
- Handling Editor for *Oecologia* – Plant Population and Community Ecology Board, 3.5-yr term (Aug. 2017–Jul. 2021; 27 manuscripts reviewed) 2017–2021
- NSF Population & Community Ecology (PCE) Panel, Washington, D.C. 2016
- NSF Doctoral Dissertation Improvement Grant (DDIG) Panel, Washington, D.C. 2014

Ad Hoc Reviewer for Faculty Promotions at Academic Institutions
(5 invitations accepted; Institution & date withheld to maintain anonymity)

- Promotion to Associate Professor with Tenure (USA – 3)
- Promotion to Full Professor (USA – 1)
- Promotion to Endowed Faculty Position (USA – 1)

Ad Hoc Reviewer of PhD Candidates at Academic Institutions

- External Ph.D. Thesis Reviewer, University of Queensland, Australia (2021)
- Ph.D. Dissertation Evaluation, University of Queensland, Australia (2017)

Reviewer for Professional Journals

35 journals; 124 reviews (25 in last 5 years, 2020–2024); each manuscript together with its revisions counts once in the tally

Ecology (19 reviews) • *Ecology Letters* (16) • *Journal of Ecology* (16) • *Functional Ecology* (7) • *Global Ecology & Biogeography* (7) • *PNAS* (5) • *Oecologia* (5) • *American Naturalist* (4) • *PloS ONE* (4) • *Ecography* (4) • *Nature* (4) • *Proceedings of the Royal Society B* (3) • *Science* (2) • *Nature Communications* (2) • *Biotropica* (2) • *Ecological Applications* (2) • *Landscape Ecology* (2) • *Journal of Vegetation Science* (2) • *Oikos* (2) • *Acta Oecologia* • *Annals of the Missouri Botanical Garden* • *Basic and Applied Ecology* • *Biological Invasions* • *Ecología en Bolivia* • *Ecological Research* • *Ecosphere* • *Heredity* • *Journal of Animal Ecology* • *Journal of Arid Environments* • *Journal of Biogeography* • *Methods in Ecology and Evolution* • *Perspectives in Plant Ecology, Evolution, and Systematics* • *Plant Ecology & Diversity* • *Science Advances* • *Trends in Ecology & Evolution*

Organizer for Working Groups & Workshops

- Co-organized and co-funded working group for 19 participants from 9 countries (Argentina, Bolivia, Colombia, Ecuador, Germany, Peru, Spain, Venezuela, USA) with Sebastián Tello (Missouri Botanical Garden) and Selene Báez (Escuela Politécnica Nacional del Ecuador): *A synthesis of patterns and mechanisms of diversity and change in the Andes: A global biodiversity hotspot*; St. Louis, MO (Sep. 3–6) — 2019
- Co-organized and co-funded working group for 16 participants from 9 countries (Argentina, Bolivia, Colombia, Ecuador, Germany, Peru, Spain, Venezuela, USA) with Sebastián Tello (Missouri Botanical Garden) and Selene Báez (Escuela Politécnica Nacional del Ecuador): *A synthesis of patterns and mechanisms of diversity and change in the Andes: A global biodiversity hotspot*; Quito, Ecuador (Oct. 19–21) — 2018
- Co-organized and co-funded workshop for 32 participants with Laura Burkle (Montana State University) and Travis Belote (The Wilderness Society): *R Basics Workshop*; Montana State University, Bozeman, MT (Oct. 8–10) — 2014
- Co-organized and co-funded workshop for 37 participants with Kyle Harms (Louisiana State University) and Paul Gagnon (Murray State University): *Exploring heterogeneity in the ecology, restoration, and management of longleaf groundcover*; Longleaf Alliance 10th Biennial Conference, Mobile, AL (Oct. 21) — 2014

Service at Washington University in St. Louis (WashU)

College of Arts & Sciences & Danforth Campus

- St. Louis Ecology, Evolution & Conservation (SLEEC) Retreat Organizing Committee (Liaison for WashU) — 2012–2019, 2025
- Arts and Sciences Office of Graduate Studies Advisory Council (elected position; 2-year term; >200 graduate course proposals, program proposals and policies reviewed) — 2024–2026
- Advisory Council Member, WashU Center for the Environment — 2023–Present
- Arts & Sciences Board of Faculty Research (3-year term, including 41 research proposals reviewed for "Seeding Projects for Enabling Excellence & Distinction [SPEED] in Research Program) — 2022–2026
- Delegate to Organization for Tropical Studies (OTS) Assembly of Delegates & Institutional Representative — 2016–Present

- Tyson Research Center Steering Committee 2014–Present
- Reviewer for WashU Here & Next Ignite Interdisciplinary Seed Grant Program (8 proposals reviewed) 2024
- Reviewer for Dean's Award for Graduate Research Excellence 2024
- WashU Climate Change Program (WUCCP) Committee 2017–2023
- Faculty Guide, WashU Climate Change Program (WUCCP) Student Curricular Guide in Climate and Ecology 2021–2022
- Proposal Reviewer, McDonnell International Scholars Academy Global Incubator Seed Grants Initiative (4 proposals reviewed) 2022
- Danforth Campus Planning Committee on Cross-Campus Science Initiatives 2018–2020
- Reviewer for I-CARES & InCEES Research Proposals (3 proposals reviewed) 2014–2018
- Environmental Studies Committee 2014
- I-CARES Faculty Search Committee (Tyson Research Center Director) 2013–2014

Graduate Program in Ecology and Evolutionary Biology: College of Arts & Sciences (2026–Present) & Division of Biology & Biomedical Sciences (DBBS) (2012–2026)

- Director – Graduate Program in Ecology and Evolutionary Biology (EEB) 2021–Present
- EEB Graduate Admissions & Steering Committee 2012–Present
- EEB Qualifying Exam Committee or Member*; 9 total years, 30 total students: 2014 (6 students), 2017 (5), 2018 (4), 2020 (4), 2021 (6), 2022* (1), 2023* (2), 2024* (1), 2026* (1) 2014–2026
- Tour Leader for EEB Prospective Graduate Student Weekend Visit to Tyson Research Center (7 consecutive years) 2014–2020
- Interim Chair – EEB Graduate Admissions Committee 2018

Department of Biology

- Selection Committee, EEB Graduate Program Coordinator Search 2026
- Faculty Co-Leader, Convergence Research & Large Grant Proposals Working Group in Ecology and Evolutionary Biology 2025
- Faculty Co-Leader, Ecology and Evolutionary Biology Long-Term Course Staffing Plan 2025
- Ecology and Evolutionary Biology Graduate Planning Committee 2025
- Chair – Biology Curriculum Committee (3-year term) 2023–2026
- Mentoring Committee Member (2 tenure-track, 1 teaching-track faculty) 2019–Present
- Advisor for Biology and Environmental Biology Majors (101 total advisees) 2013–Present

Year	Number of Advisees		Year	Number of Advisees	
	Biology	Env. Biol.		Biology	Env. Biol.
2025–2026	10	6	2018–2019	5	12
2024–2025	18	9	2017–2018	8	16
2023–2024	15	8	2016–2017	8	8
2022–2023	11	12	2015–2016	6	9
2021–2022	4	11	2014–2015	0	2
2020–2021	5	7	2013–2014	7	2
2019–2020	2	13			

- Cluster Hire Faculty Search Committee – Rules of Life: Theory, Computation, and Data Science for Understanding Living Systems (3 positions) 2024–2025

- Chair – Environmental Biology Major Steering Committee 2020–2024
- Chair's Advisory Committee 2022–2023
- Tyson Research Center Faculty Liaison 2019–2023
- Biology Curriculum Committee 2018–2023
- Long-Term Faculty Hiring Strategic Planning Committee 2022
- Urban Biology & Environmental Justice Faculty Search Committee 2021–2022
- COVID-19 Return to Research Committee 2020
- Undergraduate Advising Faculty Working Group 2020
- Environmental Biology Major Steering Committee 2015–2020
- Ecology Faculty Search Committee 2015–2016

Host for Seminar Speakers (33 speakers hosted, 2011–2026)

- Tyson Research Center Summer Seminar Series (26 speakers)
- Department of Biology Seminar Series (4 speakers)
- Ecology & Evolutionary Biology (EEB) Seminar Series (3 speakers)
- Living Earth Collaborative Seminar Series (1 speaker)

Participation in Educational & Transdisciplinary Research Initiatives

- Literacies for Life and Career Program to bring together a cohort of faculty "early adopters" across Arts & Sciences to pilot pedagogical strategies that integrate a literacy-based approach into undergraduate courses. 2023–2024
- 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

Outreach & Other Mentoring and Training Activities

- Participant, WashU Office of Graduate Studies Annual Dean's Distinguished Graduate Fellows Dinner & Research Conversations 2025
- Panelist, WashU Environmental Research Symposium – Center for the Environment Scholars panel discussion: What is higher education's role in addressing environmental challenges? 2025
- Presenter, Living Earth Collaborative "Tropical Forest February" outreach event showcasing tropical forest research, Missouri Botanical Garden 2025
- Participant in "Summer Opportunities in Ecology" Workshop for undergraduates, Ecological Society of America Strategies for Ecology Education, Diversity & Sustainability (ESA SEEDS) program, St. Louis Chapter 2022
- Research mentor for high school student presentations, Tyson Environmental Research Apprenticeship (TERA) High School Research Symposium, Tyson Research Center, MO (8 consecutive years: 15 posters; 6 talks) 2011–2019
- Research mentor for student presentations at the WashU Undergraduate Research Symposium (6 years: 12 poster presentations) 2012–2019

- Reviewer for the WashU 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) 2013–2018
- 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 WashU 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, WashU 2011
- Panel member for the WashU Undergraduate Biostatistics Training Program, Tyson Research Center, MO (3 years) 2010–2012

Professional Workshops Attended

Grant & Research Workshops

15. *Demystifying the U.S. Department of Defense* (DOD), WashU, St. Louis, Missouri, USA 2023
14. *How to Write Winning Grant Proposals*, Grant Writers' Seminars and Workshops (GWSW), WashU, St. Louis, Missouri, USA 2022
13. *Write Winning Grant Proposals*, Grant Writers' Seminars and Workshops (GWSW), WashU, St. Louis, Missouri, USA 2021
12. College of Arts & Sciences Mid-Career Workshops, WashU, St. Louis, Missouri, USA: 1) *Continuing Scholarship and Research;* 2) *When to Go Up? Planning for Promotion*; 3) *Balancing New Service Requests*; 4) *Mentoring Junior Colleagues* 2020–2021
11. *Statistical Estimation of Species Richness and Biotic Similarity using EstimateS*, Association for Tropical Biology & Conservation Meeting, San José, Costa Rica 2013
10. *Hierarchical Bayesian Modeling in Ecology*, Ecological Society of America Meeting, Portland, Oregon, USA 2012
9. *Spatial & Phylogenetic Analysis in Macroecology*, International Biogeography Society Conference, Crete, Greece 2011
8. *Structural Equation Modeling*, Louisiana State University, Baton Rouge, Louisiana, USA 2010
7. *Multiple Linear Regression using R*, Ecological Society of America Meeting, Memphis, Tennessee, USA 2006
6. *Likelihood Methods in Forest Ecology*, Institute of Ecosystem Studies, Millbrook, New York, USA 2005

Teaching & Mentoring Workshops at Washington University in St. Louis

5. College of Arts & Sciences Literacies for Life and Career Program Training Sessions: 1) *Literacies in your Course*; 2) *Defining Literacies through Transparency*; 3) *Foregrounding Literacies through Integrating Student Metacognition*; 4) *Literacy Integration Plans* 2023
4. *What does Field-Based Learning, Undergraduate Mentorship Look Like?: A Review and Discussion*, Undergraduate Field Experiences Research Network (UFERN) Virtual Meeting 2022
3. *Incorporating Active Learning into Your Class*, WashU Teaching Center 2016
2. *Planning and Running a Large Introductory Course*, WashU Teaching Center 2015
1. *Leading Effective Discussions*, WashU Teaching Center 2015

Membership in Professional Societies

- American Association for the Advancement of Science (AAAS
- Association for Tropical Biology and Conservation (ATBC)
- British Ecological Society (BES)
- Ecological Society of America (ESA)
- International Biogeography Society (IBS)

Appendix 1: Full Citations for Presentations

- **205** total presentations: **42** invited; **59** contributed as first author or senior (last) author; **27** contributed as co-author; **34** at the WashU Undergraduate Research Symposium; **30** at the Tyson Research Center Summer Research Symposium (undergraduate and high school research symposium); **13** at the Tyson Research Center Environmental Research Fellowship Symposium (high school research symposium); list of 77 presentations at undergraduate and high school research symposia available by request
- Current & former members of my research group in **red** (high school student; ***undergraduate student; **graduate student; *postdoc; [T]technician)

Invited Presentations

42. North American Forest Ecology Workshop & ForestGEO Special Session, Missoula, Montana, USA – Jonathan A. Myers, **Christopher P. Catano**, **Joseph A. LaManna**, **Jacqueline C. Reu**, **Maya D. Samuels-Fair**, **Marko J. Spasojevic** & **Anna E. Wassel**. *Ecological drivers and ecosystem consequences of beta-diversity in forest plant communities;* Jun. 23, 2026 2026
41. Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang, China – Jonathan A. Myers. *Exploring the theory of ecological communities across temperate and tropical forests*; Apr. 27, 2026 2026
40. The Jones Center at Ichauway, Newton, Georgia, USA – Jonathan A. Myers. *Exploring the theory of ecological communities across temperate and tropical forests*; Oct. 9, 2025 2025
39. University of California, Riverside, California, USA (Department of Evolution, Ecology, and Organismal Biology) – Jonathan A. Myers. *Exploring the theory of ecological communities across temperate and tropical forests*; May 1, 2025 2025
38. ForestGEO Virtual Seminar Series – **Anna E. Wassel**** & Jonathan A. Myers. *Pawpaws prevent predictability: A locally dominant tree alters understory beta-diversity and community assembly*; Apr. 16, 2025 2025

37. WashU Center for the Environment Collaboration Series, St. Louis, Missouri, USA – Jonathan A. Myers. *Some burning questions in fire ecology & opportunities for collaboration;* Dec. 4, 2024 — 2024
36. Plenary Talk – Midwest Ecology and Evolution Conference, Southern Illinois University Edwardsville, Illinois, USA – Jonathan A. Myers. *Plant community assembly and ecosystem functioning across spatial scales;* Apr. 7, 2024 — 2024
35. State University of New York College of Environmental Science and Forestry (SUNY ESF) Adaptive Peaks Seminar, Syracuse, New York, USA – Jonathan A. Myers. *Plant community assembly and ecosystem functioning across spatial scales;* Mar. 21, 2024 — 2024
34. University of Wyoming, Laramie, Wyoming, USA (Departments of Botany and Zoology & Physiology) – Jonathan A. Myers. *Plant community assembly and ecosystem functioning across spatial scales;* Mar. 28, 2024 — 2024
33. NSF Workshop – *Diversity and dynamics of herbaceous plant communities in forest ecosystems*, Oak Spring Garden Foundation, Upperville, Virginia, USA – Jonathan A. Myers. *Welcome to the Forest Global Earth Observatory (ForestGEO): A global network of scientists and forest research sites dedicated to the long-term study of the world's forests in an area of global change*; Apr. 14, 2023 — 2023
32. University of Florida, Gainesville, Florida, USA (School of Forest, Fisheries & Geomatics Sciences) – Jonathan A. Myers. *Fire disturbance as a driver of biodiversity and community assembly across scales;* Oct. 13, 2022 — 2022
31. ESA 106th Meeting, Long Beach, California, USA (Organized Session: *The Consequences of Stochasticity for Communities: Linking Theory and Experiments*) – Jonathan A. Myers, **Marko J. Spasojevic***, **Joseph A. LaManna***, **Christopher P. Catano****, **M.D. Samuels-Fair*****, **Benjamin C. Chase**T & **Erin O'Connell**T. *Species-pool functional diversity as a driver of community assembly* — 2021
30. Joseph W. Jones Ecological Research Center, Newton, GA – Jonathan A. Myers. *Untangling drivers of plant diversity from local to global scales: Insights from longleaf pine ecosystems and a global forest-plot network* — 2019
29. Silva Tarouca Research Institute, Brno, Czech Republic (Dept. of Forest Ecology) – Jonathan A. Myers. *Untangling drivers of biodiversity from local to global scales* — 2019
28. University of Maryland, College Park, Maryland, USA (Behavior, Ecology, Evolution & Systematics Seminar) – Jonathan A. Myers. *Untangling drivers of biodiversity from local to global scales* — 2018
27. University of Illinois at Urbana-Champaign, Urbana, Illinois, USA (Program in Ecology, Evolution & Conservation Biology) – Jonathan A. Myers. *Untangling drivers of biodiversity from local to global scales* — 2018
26. Missouri University of Science & Technology, Rolla, Missouri, USA (Dept. of Biological Sciences) – Jonathan A. Myers. *Untangling drivers of biodiversity from local to global scales* — 2018
25. Ecological Society of America 103rd Meeting, New Orleans, Louisiana, USA (Organized Session: *Examining the Role of Spatial Variation in Maintaining Plant Community Diversity*) – Jonathan A. Myers, Kyle E. Harms, Paul R. Gagnon & **Joseph A. LaManna***. *Does species sorting override the importance of competition from dominant species in hyperdiverse communities?* — 2018
24. Washington University Environmental Studies Graduate Student Dinner Discussion, St. Louis, Missouri, USA: *Linking effects of fire from ecosystems to the earth's climate system*) – Jonathan A. Myers. *Untangling effects of fire on ecological communities across spatial scales* — 2018
23. University of Kansas, Lawrence, Kansas, USA (Ecology Seminar Series) – Jonathan A. Myers. *Untangling drivers of biodiversity from local to global scales* — 2017
22. Missouri Botanical Garden 64th Fall Symposium (*Next Generation Biology: From Species to Ecosystems*), St. Louis, Missouri, USA – Jonathan A. Myers. *Biotic* — 2017

interactions and biodiversity-environment relationships from local to global scales

21. Smithsonian CTFS-ForestGEO Analytical Workshop, Rio Grande, Puerto Rico – Jonathan A. Myers. *Biotic interactions and biodiversity-environment relationships from local to global scales* 2017
20. University of Georgia, Odum School of Ecology, Athens, Georgia, USA – Jonathan A. Myers. *Untangling drivers of biodiversity from local to global scales* 2016
19. Clemson University, Clemson, South Carolina, USA (Dept. of Biological Sciences) – Jonathan A. Myers. *Untangling drivers of biodiversity from local to global scales* 2016
18. Smithsonian CTFS-ForestGEO, Chinese Academy of Forestry & Chinese Academy of Sciences Analytical Workshop, Hainan Island, China – Jonathan A. Myers. *Negative density dependence and diversity-environment relationships across temperate and tropical forests* 2016
17. University of Missouri, St. Louis, Missouri, USA (BioLunch Seminar) – Jonathan A. Myers. *From the Ozarks to the Rockies (and possibly the Andes): The beta-diversity of species and species interactions across ecological gradients* 2015
16. University of Missouri, Columbia, Missouri, USA (Forestry, Fisheries & Wildlife Seminar) – Jonathan A. Myers. *Biodiversity and community assembly in heterogeneous landscapes: Insights from comparative studies in temperate and tropical ecosystems* 2015
15. Missouri Native Plant Society, St. Louis, Missouri, USA – Jonathan A. Myers. *The paradox of plant diversity: Insights from comparative studies across temperate and tropical ecosystems* 2015
14. Smithsonian CTFS-ForestGEO & Chinese Forest Biodiversity Monitoring Network (CForBio) Analytical Workshop, Xishuangbanna Tropical Botanical Garden, Xishuangbanna, China – Jonathan A. Myers. *Biodiversity, community assembly, and global change: Insights from comparative studies in temperate and tropical forests* 2014
13. Montana State University, Bozeman, Montana, USA (Dept. of Ecology) – Jonathan A. Myers. *Biodiversity and community assembly across ecological and biogeographic gradients* 2013
12. Southern Illinois University, Edwardsville, Illinois, USA (Dept. of Biological Sciences) – Jonathan A. Myers. *Biodiversity and community assembly across ecological and biogeographic gradients* 2013
11. University of Missouri, St. Louis, Missouri, USA (Biology Dept.) – Jonathan A. Myers. *Biodiversity and community assembly across ecological and biogeographic gradients* 2013
10. Saint Louis University, St. Louis, Missouri, USA (Dept. of Biology) – Jonathan A. Myers. *Biodiversity and community assembly across ecological and biogeographic gradients* 2013
9. Murray State University, Murray, Kentucky, USA (Dept. of Biological Sciences) – Jonathan A. Myers. C*ommunity assembly across ecological and biogeographic gradients* 2012
8. Tyson Research Center, Eureka, Missouri, USA (Washington University Plant Biology Retreat) – Jonathan A. Myers. *Ecological assembly of temperate and tropical forests through space and time* 2012
7. University of Missouri, Columbia, Missouri, USA (Division of Biological Sciences, Evolutionary Biology & Ecology Seminar) – Jonathan A. Myers. C*ommunity assembly across ecological and biogeographic gradients* 2011
6. St. Louis Ecology, Evolution & Conservation 1st Retreat, Tyson Research Center, Eureka, Missouri, USA – Jonathan A. Myers. *Disentangling regional, environmental, and spatial influences on β-diversity in temperate and tropical forests* 2011
5. Washington University in St. Louis, Missouri, USA (Dept. of Biology) – Jonathan A. Myers. C*ommunity assembly across ecological and biogeographic gradients* 2011
4. Washington University in St. Louis, Missouri, USA (Dept. of Biology) – Jonathan A. 2009

Myers. *Ecological assembly of high-diversity plant communities*

3. Louisiana State University, Baton Rouge, Louisiana, USA (Sigma Xi Seminar) – Jonathan A. Myers. *Ecological mechanisms maintaining plant species diversity: Dispersal and niche assembly of high-diversity longleaf pine communities* 2008
2. Ecological Society of America 90th Meeting, Montreal, Canada (Organized Session: *Comparative Ecology of Tropical Trees: Linking Physiology to Dynamics & Distributions*) – Jonathan A. Myers & Kaoru Kitajima. *Carbohydrate storage enhances seedling shade and mediates growth-survival trade-offs in a neotropical forest.* 2005
1. Smithsonian Tropical Research Institute, Panama (Barro Colorado Island Seminar) – Jonathan A. Myers. *Carbon allocation to storage as a basis for trade-offs between growth and survival of tropical forest seedlings* 2003

Contributed Presentations – First Authored, Senior or Last Authored

59. Ecological Society of America 111th Meeting, Salt Lake City, Utah, USA (Jul. 26–31, 2026) – **Noah Clayton****, **Golde Umlas*****, Rachel M. Penczykowski & **Jonathan A. Myers**. *Environmental stress reshapes plant–soil feedbacks and microbially mediated fitness differences*. Jul. 29, 2026 2026
58. Ecological Society of America 110th Meeting, Baltimore, Maryland, USA (Aug. 10–15, 2025) – **Carly Ramacher*****, **Anna Wassel**** & **Jonathan A. Myers**. *Species sorting in temperate forests: Differential habitat filtering experienced by woody and herbaceous species—Is this disrupted by the presence of a dominant species?* (poster) 2025
57. Ecological Society of America 110th Meeting, Baltimore, Maryland, USA (Aug. 10–15, 2025) – **Anna Wassel****, **Maya Irvine*****, **Liana Van Zen***** & **Jonathan A. Myers**. *What makes common species locally rare: rarity and recruitment influenced by a locally dominant tree species.* (poster) 2025
56. British Ecological Society Annual Meeting, Liverpool, England (Dec. 10–13, 2024) – **David Henderson****, J. Sebastián Tello, Leslie Cayola, Alfredo F. Fuentes, Belen Alvestegui, Nathan Muchhala, Brian E. Sedio & **Jonathan A. Myers**. *Ecological metabolomics of tree communities along a tropical elevational gradient: Implications for chemically mediated biotic interactions and species diversity*. (poster presented by J.A. Myers) 2024
55. Gordon Research Conference – Unifying Ecology Across Scales, Manchester, New Hampshire, USA (Jul. 28 – Aug. 2, 2024) – **Ethan R. Abercrombie****, **Jonathan A. Myers** & Adam B. Smith. *Patterns of elevational turnover in Asian birds*. (poster) 2024
54. Ecological Society of America 109th Meeting, Long Beach, California, USA (Aug. 4–9, 2024) – **Anna Wassel**** & **Jonathan A. Myers**. *A locally dominant tree's role in biotic and abiotic drivers of herbaceous composition in a temperate forest.* (poster) 2024
53. International Association for Landscape Ecology Annual Meeting, Riverside, California, USA (Mar. 19–23, 2023) – Jonathan J. Henn, Brian E. Sedio, **Christopher P. Catano****, **Emily DeWald-Wang*****, James A. Lutz, Sean M. McMahon, Geoffrey G Parker, **Dilys M. Vela Díaz****, **Jonathan A. Myers** & **Marko J. Spasojevic***. *Functional diversity of chemical and morphological traits reveal biotic and abiotic drivers of temperate forest tree community assembly.* 2023
52. British Ecological Society Annual Meeting, Edinburgh, Scotland – **Jonathan A. Myers**, **Marko J. Spasojevic***, **Joseph A. LaManna***, **Christopher P. Catano****, **M.D. Samuels-Fair*****, **Benjamin C. Chase**[T], **Erin O'Connell**[T], **Anna Wassel**[T,]** & **Paul Elliott**[T]. *Species-pool functional diversity as a driver of community assembly*. (poster) 2022
51. Botanical Society of America Conference, Anchorage, Alaska, USA – **David Henderson****, Brian E. Sedio, J. Sebastián Tello, Belén Alvestegui, Leslie Cayola, Alfredo F. Fuentes, Nathan Muchhala & **Jonathan A. Myers**. *Testing the role that biotic interactions play in shaping elevational-diversity gradients: An ecological* 2022

metabolomics approach. (talk)

50. Ecological Society of America 106th Meeting, Montreal, Canada – **Anna Wassel**** & **Jonathan A. Myers**. *Strong foundations: Foundation species' community assembly processes in a temperate forest.* (poster) 2022

49. Ecological Society of America 106th Meeting, Montreal, Canada – Jonathan J. Henn, Brian E. Sedio, **Christopher P. Catano****, **Emily DeWald-Wang***** , James A. Lutz, Sean M. McMahon, Geoffrey G Parker, **Dilys M. Vela Díaz****, **Jonathan A. Myers** & **Marko J. Spasojevic***. *Functional diversity of chemical defense and morphological traits reveal biotic and abiotic drivers of tree community assembly*. 2022

48. Association for Tropical Biology and Conservation 58th Meeting (Virtual Meeting) – **William Fárhan-Ríos***, J. Sebastián Tello, **Jonathan A. Myers**, Oliver Phillips, & Timothy Baker. *Is tree diversity in Amazonian and Andean forests changing over time?* (talk) 2021

47. Ecological Society of America 105th Meeting (Virtual Meeting) – **William Fárhan-Ríos***, **Jonathan A. Myers**, J. Sebastián Tello, Kenneth J. Feeley, Yadvinder Malhi, Oliver Phillips, Timothy Baker, Afredo F. Fuentes, Abel Monteagudo-Mendoza, Norma Salinas & Miles R. Silman. *Forest dynamics mediate the response of communities to climate change from the Amazon to the Andes*. (talk) 2020

46. Ecological Society of America 105th Meeting (Virtual Meeting) – **David Henderson****, J. Sebastian Tello, Leslie Cayola-Pérez, Maritza Cornejo-Mejía, Alfredo F. Fuentes, M. Isabel Loza-Rivera & **Jonathan A. Myers**. *Untangling determinism and stochasticity within local species neighborhoods across a tropical biodiversity gradient*. (poster) 2020

45. Ecological Society of America 104th Meeting, Louisville, Kentucky, USA – **M.D. Samuels-Fair***** , **Joseph A. LaManna***, **Marko J. Spasojevic***, **Christopher P. Catano**** & **Jonathan A. Myers**. *Dispersal interacts with fire and predation to influence plant community assembly*. (poster) 2019

44. Ecological Society of America 104th Meeting, Louisville, Kentucky, USA – **Jacqueline C. Reu***** , **Christopher P. Catano**** & **Jonathan A. Myers**. *The scale dependence of biodiversity-ecosystem functioning relationships*. (poster) 2019

43. Ecological Society of America 104th Meeting, Louisville, Kentucky, USA – **Emily A. Dewald-Wang***** , **Joseph A. LaManna***, Brian E. Sedio, **Marko J. Spasojevic*** & **Jonathan A. Myers**. *Plant chemical defenses, density dependence, and biodiversity in a temperate tree community*. (poster) 2019

42. Midwest Ecology & Evolution Conference, Terre Haute, Indiana, USA – **Emily A. Dewald-Wang***** , **Joseph A. LaManna***, Brian E. Sedio & **Jonathan A. Myers**. *Do leaf chemical defenses explain changes in density dependence and patterns of local species diversity in temperate forests?* (poster) 2019

41. Association for Tropical Biology and Conservation 55th Meeting, Kuching, Sarawak, Malaysia – **Jonathan A. Myers, Joseph A. LaManna***, Scott A. Mangan, & The Center for Tropical Forest Science-Forest Global Earth Observatory (CTFS-ForestGEO) Network (69 total authors). *Negative density dependence, tree-mycorrhizal associations, and the latitudinal-diversity gradient*. (talk) 2018

40. Ecological Society of America 103rd Meeting, New Orleans, Louisiana, USA – **Christopher P. Catano****, Trevor S. Fristoe, **Joseph A. LaManna*** & **Jonathan A. Myers**. *Species turnover and environmental heterogeneity increase stability of regional ecosystems*. (talk) 2018

39. Ecological Society of America 103rd Meeting, New Orleans, Louisiana, USA – **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.* (poster) 2018

38. St. Louis Ecology, Evolution & Conservation 8th Retreat, Maryville University, 2018

St. Louis, Missouri, USA – **Christopher P. Catano****, Trevor S. Fristoe, **Joseph A. LaManna*** & **Jonathan A. Myers**. *Biodiversity across scales and its importance for regional ecosystem stability*. (talk)

37. The MidStates Consortium for Math and Science Undergraduate Research Symposium, Chicago, Illinois, USA – **Emily A. Dewald-Wang*****, **Joseph A. LaManna***, Brian E. Sedio & **Jonathan A. Myers**. *Do leaf chemical defenses explain changes in density dependence and patterns of local species diversity in temperate forests?* (poster) 2018
36. Ecological Society of America 102nd Meeting, Portland, Oregon, USA – **Christopher P. Catano****, **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*. (talk) 2017
35. Ecological Society of America 102nd Annual Meeting, Portland, Oregon, USA – **Ashley J. Knudson*****, **Christopher P. Catano**** & **Jonathan A. Myers.** *Biodiversity-ecosystem function relationships are mediated by the environment and functional trait assembly*. (poster) 2017
34. Ecological Society of America 102nd Meeting, Portland, Oregon, USA – **Joseph A. LaManna***, Scott A. Mangan, **Dilys M. Vela Díaz****, The Center for Tropical Forest Science-Forest Global Earth Observatory (CTFS-ForestGEO) Network & **Jonathan A. Myers** (50 total authors). *Negative density dependence contributes to global patterns of plant biodiversity.* (talk) 2017
33. Missouri Botanical Garden 64th Fall Symposium, St. Louis, Missouri, USA – **Christopher P. Catano****, **Ashley J. Knudson*****, **Marko J. Spasojevic*** & **Jonathan A. Myers.** *Deterministic community assembly increases with productivity and is mediated by community size*. (poster) 2017
32. St. Louis Ecology, Evolution & Conservation 7th Retreat, Saint Louis University, St. Louis, Missouri, USA – **Dilys M. Vela Díaz****, **Marko J. Spasojevic***, **Joseph A. LaManna***, The Center for Tropical Forest Science-Forest Global Earth Observatory (CTFS-ForestGEO) Network & **Jonathan A. Myers** (34 total authors). *Local niche-assembly mechanisms influence global patterns of forest biodiversity*. (talk) 2017
31. Association for Tropical Biology and Conservation 53rd Meeting, Montpellier, France – **Dilys M. Vela Díaz****, **Marko J. Spasojevic***, James W. Dalling, Sean M. McMahon, Benjamin L. Turner, **Joseph A. LaManna***, The Center for Tropical Forest Science-Forest Global Earth Observatory (CTFS-ForestGEO) Network & **Jonathan A. Myers** (34 total authors). *MacArthur's niche hypotheses revisited: the role of niche space, niche breadth and niche overlap in explaining global patterns of species diversity*. (poster) 2016
30. Ecological Society of America 101st Meeting, Fort Lauderdale, Florida, USA – **Joseph A. LaManna***, **Maranda L. Walton**T, 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.* (talk) 2016
29. St. Louis Ecology, Evolution & Conservation 6th Retreat, Principia College, Elsah, Illinois, USA – **Joseph A. LaManna***, **Maranda L. Walton**T, **Dilys M. Vela Díaz****, The Center for Tropical Forest Science-Forest Global Earth Observatory (CTFS-ForestGEO) Network & **Jonathan A. Myers** (51 total authors)**.** *Negative density dependence, species relative abundance, and diversity-environment relationships across temperate and tropical forests.* (talk) 2016
28. St. Louis Ecology, Evolution & Conservation 6th Retreat, Principia College, Elsah, Illinois, USA – **Dilys M. Vela Díaz****, **Marko J. Spasojevic***, James W. Dalling, Sean M. McMahon, Benjamin L. Turner, **Joseph A. LaManna***, The Center for 2016

Tropical Forest Science-Forest Global Earth Observatory (CTFS-ForestGEO) Network & **Jonathan A. Myers** (34 total authors)**.** *MacArthur's niche hypotheses revisited: the role of niche space, niche breadth and niche overlap in explaining global patterns of species diversity.* (poster)

27. International Center for Advanced Renewable Energy and Sustainability (I-CARES) Research Symposium, Washington University, St. Louis, Missouri, USA – **Jonathan A. Myers**, 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*. (talk) 2016
26. British Ecological Society Meeting, Edinburgh, Scotland – **Jonathan A. Myers**, Kyle E. Harms & Paul R. Gagnon. *Species sorting trumps the importance of local species interactions in the assembly of hyperdiverse communities*. (talk) 2015
25. Ecological Society of America 100th Meeting, Baltimore, Maryland, USA – **Jonathan A. Myers**, 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*. (talk) 2015
24. Ecological Society of America 100th Meeting, Baltimore, Maryland, USA – **Marko J. Spasojevic***, James A. Lutz, Sean M. McMahon, Andrew L. Larson, Geoffrey G. Parker, Benjamin L. Turner, **Christopher P. Catano****, **Dilys M. Vela Díaz**** & **Jonathan A. Myers**. *Species pool functional diversity and environmental heterogeneity jointly influence beta-diversity in temperate forests*. (talk) 2015
23. Ecological Society of America 100th Meeting, Baltimore, Maryland, USA – **Christopher P. Catano****, Timothy L. Dickson & **Jonathan A. Myers**. *Disturbance and dispersal as drivers of beta-diversity: A synthesis of experiments*. (talk) 2015
22. Danforth Plant Science Center & Missouri Botanical Garden Joint Symposium (*From Darwin to Borlaug: Biocomplexity in Natural and Agricultural Systems*), Missouri Botanical Garden, St. Louis, Missouri, USA – **Dilys M. Vela Díaz****, **Marko J. Spasojevic*** & **Jonathan A. Myers**. *Ecological niche specialization of temperate and tropical forest trees across large-scale diversity gradients*. (poster) 2015
21. Danforth Plant Science Center & Missouri Botanical Garden Joint Symposium (*From Darwin to Borlaug: Biocomplexity in Natural and Agricultural Systems*), Missouri Botanical Garden, St. Louis, Missouri, USA – **Christopher P. Catano****, Timothy L. Dickson & **Jonathan A. Myers**. *Disturbance and dispersal interactively drive biotic homogenization: A synthesis of experiments*. (poster) 2015
20. Danforth Plant Science Center & Missouri Botanical Garden Joint Symposium (*From Darwin to Borlaug: Biocomplexity in Natural and Agricultural Systems*), Missouri Botanical Garden, St. Louis, Missouri, USA – **Joseph A. LaManna***, **Maranda L. Walton**[T] & **Jonathan A. Myers**. *Negative density dependence is stronger in resource-rich environments across species and associated with higher diversity*. (poster) 2015
19. St. Louis Ecology, Evolution & Conservation 5th Retreat, Saint Louis Zoo, St. Louis, Missouri, USA – **Christopher P. Catano****, Timothy L. Dickson & **Jonathan A. Myers**. *Disturbance and dispersal interactively drive biotic homogenization: A synthesis of experiments*. (poster) 2015
18. St. Louis Ecology, Evolution & Conservation 5th Retreat, Saint Louis Zoo, St. Louis, Missouri, USA – **Joseph A. LaManna***, **Maranda L. Walton**[T] & **Jonathan A. Myers**. *Negative density dependence is stronger in resource-rich environments across species and associated with higher diversity*. (poster) 2015
17. 11th Annual Postdoc Symposium, Washington University, St. Louis, Missouri, USA – **Marko J. Spasojevic*** & **Jonathan A. Myers**. *From the leaf to the continent: Integrating trait variation across scales to understand spatial variation in forest* 2015

biodiversity. (talk)

16. Ecological Society of America 99th Meeting, Sacramento, California, USA – **Marko J. Spasojevic*** & **Jonathan A. Myers**. *Does intraspecific trait variation mediate the relative importance of selection, drift, and dispersal as drivers of beta-diversity?* (talk) 2014
15. International Center for Advanced Renewable Energy and Sustainability (I-CARES) Research Symposium, Washington University, St. Louis, Missouri, USA – **Jonathan A. Myers**, 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*. (talk) 2014
14. Washington University Plant Biology Retreat, Tyson Research Center, Eureka, Missouri, USA – **Dilys M. Vela Díaz**** & **Jonathan A. Myers**. *Patterns of species commonness and rarity in temperate tree communities.* (talk) 2014
13. Association for Tropical Biology & Conservation 50th Anniversary Meeting, San José, Costa Rica – **Jonathan A. Myers**, 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*. (talk) 2013
12. St. Louis Ecology, Evolution & Conservation 3rd Retreat, Saint Louis Zoo, St. Louis, Missouri, USA – **Marko J. Spasojevic***, **Elizabeth A. Yablon***** , Brad Oberle, **Maranda L. Walton**T, Amy E. Zanne & **Jonathan A. Myers**. *Community assembly mechanisms differ between saplings and adults: The importance of ontogeny in trait-based ecology* (poster) 2013
11. Ecological Society of America 97th Meeting, Portland, Oregon, USA – **Amal Al-Lozi***** & **Jonathan A. Myers**. *Unraveling the roles of dispersal limitation and a dominant herbivore on seedling diversity and dynamics in temperate forests.* (poster) 2012
10. Ecological Society of America 96th Meeting, Austin, Texas, USA – **Jonathan A. Myers**, 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.* (talk) 2011
9. Botanical Society of America Conference, St. Louis, Missouri, USA – **Jonathan A. Myers**, 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*. (talk) 2011
8. International Biogeography Society 5th Conference, Crete, Greece – **Jonathan A. Myers**, 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*. (poster) 2011
7. The MidStates Consortium for Math and Science Undergraduate Research Symposium, Chicago, Illinois, USA – **Amal Al-Lozi***** & **Jonathan A. Myers.** *Ecological processes influencing seedling diversity and dynamics in temperate oak-hickory forests.* (poster) 2011
6. Ecological Society of America 95th Meeting, Pittsburgh, Pennsylvania, USA – **Jonathan A. Myers** & Kyle E. Harms. *Resource-disturbance interactions influence community assembly in high-diversity pine savannas*. (talk) 2010
5. Ecological Society of America 94th Meeting, Albuquerque, New Mexico, USA – **Jonathan A. Myers** & Kyle E. Harms. *Climate, disturbance, and seed arrival interact to assemble high-diversity pine savanna groundcover communities*. (talk) 2009
4. Ecological Society of America 93rd Meeting, Milwaukee, Wisconsin, USA – **Jonathan A. Myers** & Kyle E. Harms. *Competition and recruitment limitation in high-diversity pine savanna: Mechanistic effects of dominant species*. (talk) 2008

3. Ecological Society of America 91st Meeting, Memphis, Tennessee, USA – **Jonathan A. Myers** & Kaoru Kitajima. *Seedling acclimation to dynamic forest light environments: The contributions of carbon storage and carbon gain*. (poster) 2006
2. Ecological Society of America 89th Annual Meeting, Portland, Oregon, USA – **Jonathan A. Myers** & Kaoru Kitajima. *Carbon allocation to storage as a basis for tradeoffs between seedling growth and survival in a tropical forest*. (talk) 2004
1. Northeast Natural History Conference VII, Albany, New York, USA – **Jonathan A. Myers**, Mark Vellend, Sana Gardescu & Peter L. Marks. *Seed dispersal by white-tailed deer*. (talk) 2003

Contributed Presentations – Co-Authored

27. Ecological Society of America 111th Meeting, Salt Lake City, Utah, USA – Zarluis Mijango-Ramos, Keri Greig, David Allen, Kristina J. Anderson-Teixeira, Daniel J. Johnson, **Jonathan A. Myers**, Richard P. Phillips & Brian E. Sedio. *How do climatic variables influence intraspecific phytochemical variation of six Walnut species with different ranges of distribution in the United States?* 2026
26. Forest Spatial Analysis Technologies (ForestSAT) Conference, Florida, USA – Emilia J. Braun, M. N. Garcia, C. D. Southwick, S. McMahon, F. Huemmrich, P. Campbell, K. Acebron, N. Wang, **Jonathan A. Myers**, G. Gilbert, H. Pretzsch, J. Lutz, D. Orwig, D.J. Johnson, J. Cannon, D. Lemke, D. Allen, C. Dick, I. Perfecto, J. Vandermeer, J. Shue & L. P. Albert. *Global evaluation of the spectral variation hypothesis with hyperspectral satellite imagery*. 2026
25. International Mountain Conference, Vienna, Austria (Sep. 14–18, 2025) – Kenneth J. Feeley, **William Fárhan-Ríos***, Miles Silman, **Jonathan A. Myers** & J. Sebastián Tello. *Thermophilization of Andean and Amazonian forests due to rising temperatures*. (talk) 2025
24. Ecological Society of America 107th Meeting, Portland, Oregon, USA – Weiler, Adam, Young Oh, Ashley K. Lang, Kristina J. Anderson-Teixeira, Keith Clay, James W. Dalling, Daniel J. Johnson, Sean M. McMahon, **Jonathan A. Myers** & Richard P. Phillips. *Mycorrhizal-associated nutrient economies are modulated by the density of small stems in temperate forests*. 2023
23. Ecological Society of America 106th Meeting, Montreal, Canada – **Ethan R. Abercrombie****, **Jonathan A. Myers** & **Adam B. Smith.** *How have climate indices of small mammal communities in the Sierra Nevada changed over the past 100 years?* 2022
22. International Conference on Mycorrhiza (ICOM 11), Beijing, China (Jul. 31–Aug. 5, 2022) – Camille Delavaux, **Joseph A. LaManna**, **Jonathan A. Myers** […] Colin Averill (71 total authors). *Mycorrhizal feedbacks linked to global forest biodiversity gradient*. (talk) 2022
21. Association for Tropical Biology and Conservation Virtual Meeting – J. Sebastián Tello, **Jonathan A. Myers**, Amy E. Zanne, Christine E. Edwards, Alexander G. Linan, Alfredo F. Fuentes, Leslie Cayola, M. Isabel Loza, Manuel J. Macía, Gabriel Arellano & Eli Kallison. *Mountain uplift shape elevational and phylogenetic patterns of functional trait variation in trees*. (talk) 2021
20. Ecological Society of America 105th Meeting, Salt Lake City, Utah, USA – Shubhi Sharma [...] & James S. Clark (55 total authors including **Jonathan A. Myers**). *North American tree migration paced by fecundity and recruitment through contrasting mechanisms east and west*. (talk) 2020
19. Ecological Society of America 105th Meeting, Salt Lake City, Utah, USA – James S. Clark *et al*. (54 total authors including **Jonathan A. Myers**). *Interactions that control the pace of forest change in North America*. (talk) 2020
18. Botanical Society of America Conference, Tucson, Arizona, USA – Brad Oberle, 2019

Marissa Lee, **Jonathan A. Myers,** Oyomoare Osazuwa-Peters, **Marko J. Spasojevic***, **Maranda L. Walton**[T]**,** Darcy F. Young, & Amy E. Zanne. *Accurate forest ecosystem projections from empirical decay models require long-term experiments* (talk)

17. XII Congreso Latinoamericano de Botánica, Quito, Ecuador – J. Sebastián Tello, Selene Báez, **Jonathan A. Myers**, Alfredo Fuentes & Leslie Cayola. *Do mortality and recruitment rates in Andean forests change with time and productivity?* (talk) 2018
16. American Association for Aerosol Research 36th Conference, Raleigh, North Carolina, USA – Audrey Dang, 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*. (poster) 2017
15. International Congress of Entomology / Entomological Society of America XXV Meeting, Orlando, Florida, USA – Laura A. Burkle, **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*. **Invited talk** for Organized Session: *Insects and Landscape Ecology: Defining an Entomological Perspective* (talk) 2016
14. Ecological Society of America 100th Meeting, Baltimore, Maryland, USA – Daniel J. Johnson, **Jonathan A. Myers**, Richard P. Phillips & Keith Clay. *Role of mycorrhizal associations in structuring forest communities across environmental and climatic gradients.* **Invited talk** for Organized Session: *Functional, Phylogenetic and Genetic Dimensions of Forest Diversity and Change* (talk) 2015
13. Ecological Society of America 99th Meeting, Sacramento, California, USA – Laura A. Burkle, R. Travis Belote & **Jonathan A. Myers**. *Responses of plant and pollinator biodiversity to wildfires across a productivity gradient in the Northern Rockies*. (talk) 2014
12. Missouri Botanical Garden 60th Fall Symposium (*Phylogeny Meets Ecology: Patterns of Diversity, Community Assembly, and Niche Evolution*), St. Louis, Missouri, USA – J. Sebastián Tello, 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*. (talk) 2013
11. Ecological Society of America 98th Meeting, Minneapolis, Minnesota, USA – Amy M. Milo, Brad Oberle, **Jonathan A. Myers**, Darcy F. Young & Amy E. Zanne. *Patterns of fine scale deadwood distribution in an Ozark Highlands forest*. (poster) 2013
10. Association for Tropical Biology & Conservation 50th Anniversary Meeting, San José, Costa Rica – Juan S. Tello, 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* (talk) 2013
9. Ecological Society of America 97th Meeting, Portland, Oregon, USA – Kendi F. Davies & The NCEAS Beta-Diversity Working Group (20 total authors including **Jonathan A. Myers**). *Relative influence of deterministic versus stochastic community assembly under increasing productivity*. (talk) 2012
8. Ecological Society of America 97th Meeting, Portland, Oregon, USA – Brad Oberle, **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*. (talk) 2012
7. Ecological Society of America 97th Meeting, Portland, Oregon, USA – Juan S. Tello, 2012

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*. (talk)

6. International Biogeography Society 5th Conference, Crete, Greece – Jonathan M. Chase & **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*. (talk) 2011
5. International Fire Ecology and Management 4th Congress, Savannah, Georgia, USA – Paul R. Gagnon, Paul R., Heather A. Passmore, William J. Platt, **Jonathan A. Myers**, C.E. Timothy Paine & Kyle E. Harms. *Flammability as self-protection.* (talk) 2009
4. U.S.-Japan Cooperative Science Program (*Phenotypic Plasticity in Response to Environmental Changes: Scaling from the Molecular to Ecosystem Levels*), Nikko, Japan – Kaoru Kitajima & **Jonathan A. Myers**. *Role of storage for photosynthetic acclimation and maintenance of carbon balance in seedlings*. (talk) 2007
3. Ecological Society of America 92nd Meeting, San Jose, California, USA – Heather A. Passmore, 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*. (poster) 2007
2. Ecological Society of America 88th Meeting, Savanna, Georgia, USA – Mark Vellend, **Jonathan A. Myers**, Sana Gardescu & Peter L. Marks. *Seed dispersal by white-tailed deer: Implications for long-distance dispersal and plant migrations.* (talk) 2003
1. Ecological Society of America 86th Meeting, Madison, Wisconsin, USA – Mark J. Twery, Gary L. Wade, **Jonathan A. Myers**, Kathie Detmar & William Mattor. *A comparison of study techniques for evaluating plant species richness in northern hardwood forests*. (poster) 2001