

## Daniel Spalink

Department of Ecosystem Science and Management  
Texas A&M University  
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### AREAS OF INTEREST

Phylogenomics of angiosperms; biogeography; geographical, ecological, and morphological correlates of diversification; niche evolution; phylogeography and conservation genetics; spatial phylogenetics; community assembly

### ACADEMIC POSITIONS

- 2018- Assistant Professor, Department of Ecosystem Science and Management  
Texas A&M University
- 2018- Director, SM Tracy Herbarium  
Texas A&M University
- 2018- Core Faculty Member, Ecology and Evolutionary Biology Program  
Texas A&M University
- 2016-2018 Postdoctoral Scholar, Department of Biology  
University of Utah  
PI: Lynn Bohs
- 2015-2016 Postdoctoral Fellow, Department of Botany  
University of Wisconsin-Madison  
PI: Thomas J. Givnish
- 2012–2015 Graduate Fellow, Department of Botany  
University of Wisconsin-Madison
- 2010–2012 Teaching Assistant, Department of Botany  
University of Wisconsin-Madison
- 2008–2009 Adjunct Instructor, Department of Biology  
Grand Valley State University
- 2008–2009 Research Assistant, *Molecular systematics of Aneliema (Commelinaceae)*  
Grand Valley State University  
PI: Timothy M. Evans
- 2006–2008 Collections Manager; Calvin College Herbarium  
Calvin College

### EDUCATION

- 2015 **Ph.D.**, University of Wisconsin-Madison, Department of Botany.  
Dissertation: *Time, Space, and Form: Patterns of diversification over 90 million years of sedge (Cyperaceae) evolution.*  
Advisor: Kenneth J. Sytsma
- 2006 **B.S.**, Calvin College, Grand Rapids, MI. Major: Biology; Minor: Biochemistry

### AWARDS & FELLOWSHIPS

- 2016 – present Honorary Fellow, Department of Botany, University of Wisconsin-Madison

Current: 23 October 2018

- 2017 Outstanding Student Award, International Botanical Congress, Shenzhen, China (\$650).  
2017 Invited paper award, Journal of Systematics and Evolution. (\$1000)  
2012–2015 NSF Graduate Research Fellowship  
2012 Departmental Nominee, L&S Teaching Fellow, University of Wisconsin-Madison  
2012 *Flora Aeterna* Fellowship; Department of Botany, University of Wisconsin-Madison  
2011 Honorable Mention: NSF Graduate Research Fellowship  
2010 Biological Science Scholar Award, University of Wisconsin-Madison (\$4500)

## FUNDING

- 2018 NSF DBI 1902080: Digitization TCN: Collaborative: American Crossroads: Digitizing the vascular flora of the south-central United States. \$866,147 (In Review)  
2013–2015 NSF DEB 1311153. Phylogeny, biogeography, and population genetics of *Scirpus* (Cyperaceae). PI: K.J. Sytsma. Co-PI: D. Spalink. \$19,565. (Doctoral Dissertation Improvement Grant)  
2014 Raper Travel Award, University of Wisconsin-Madison (\$400)  
2012–2014 *Flora Aeterna* Fellowship, University of Wisconsin-Madison (\$10,000)  
2013 Raper Travel Award, University of Wisconsin-Madison (\$333)  
2012 Davis Research Award, University of Wisconsin-Madison (\$1500)  
2011 Davis Research Award, University of Wisconsin-Madison (\$1500)  
2011 Graduate Student Research Grant, American Society of Plant Taxonomists (\$800)  
2011 Graduate Student Research Awards, Botanical Society of America (\$500)  
2009 Scholarly Travel Grant-in-aid, Faculty Research and Development Grant, Grand Valley State University (\$500)  
2006-2008 Herbarium digitization grant, Department of Biology, Calvin College (\$10,000)

## PUBLICATIONS

### *Manuscripts in review or revision:*

Alyamani EJ, Marcus SA, Ramirez-Busby SM, Hansen C, Rashid J, El-kholy A, **Spalink D**, Valafar F, Almehdar HA, Fatani AJ, Khiyami MA, Talaat AM. In review. Transmission dynamics of *Mycobacterium tuberculosis* in The Middle East. *Scientific Reports*.

Abdelaal, H, **Spalink D**, Amer A, Steinberg H, Hashish EA, Nasr EA, Talaat AM. In review. Genomic polymorphism with the emergence of virulent isolates of *Mycobacterium bovis* in the Nile Delta. *Mbio*.

**Spalink D**, MacKay R, Sytsma KJ. In revision. Phylogeography, population genetics, and distribution modeling reveal vulnerability of an Atlantic seaboard sedge (Cyperaceae). *Molecular Ecology*.

*Published Manuscripts:*

**Spalink D**, Kriebel R, Li P, Pace MC, Drew BT, Zaborsky JG, Rose J, Drummond C, Feist MA, Alverson B, Waller D, Cameron KM, Givnish TJ, Sytsma KJ. In Press. High-resolution spatial phylogenetics reveals evolutionary constraints on the assembly and future migration of a regional vascular flora. *American Journal of Botany*.

Givnish TJ, Zuluaga A, **Spalink D**, Soto Gomez M, Lam VKY, Saarela JM, Sass C, Iles WJD, Lima de Sousa, DJ, Leebens-Mack J, Pires JC, Zomlefer WB, Gandolfo MA, Davis JI, Stevenson DW, dePamphilis C, Specht C, Graham SW, Barrett CF, Ane C. In press. Monocot plastid phylogenomics, timeline, net rates of species diversification, the power of multi-gene analyses, and a functional model for the origin of monocots. *American Journal of Botany*.

**Spalink D**, Pender J, Escudero M, Hipp A, Roalson E, Starr JR, Waterway M, Bohs L, Sytsma KJ. 2018. The spatial structure of phylogenetic and functional diversity in North America: an example using the sedge family (Cyperaceae). *Journal of Systematics and Evolution*, <https://doi.org/10.1111/jse.12423>.

**Spalink D**, K Stoffel, GK Walden, AM Hulse-Kemp, T Hill, A Van Deynze, L Bohs. 2018. Comparative transcriptomics and genomic patterns of discordance in Capsiceae (Solanaceae). *Molecular Phylogenetics and Evolution*, 126, 293-302.

Kitanovic K, Orr T, **Spalink D**, Cocke G, Schramm K, Ross W, Halpert J, Dearing D. 2018. Role of Cytochrome P450 2B sequence variation and gene copy number in facilitating dietary specialization in mammalian herbivores. *Molecular Ecology*, 27(3), 723-736.

**Spalink D**, Drew BT, Pace MC, Zaborsky JG, Cameron KM, Starr JR, Sytsma KJ. 2016. Biogeography of the cosmopolitan sedges (Cyperaceae) and the area-richness correlation in plants. *Journal of Biogeography*, 43(10), 1893-1904. **Special Paper, Editor's Choice**.

**Spalink D**, Drew BT, Pace MC, Zaborsky JG, Li P, Cameron KM, Givnish TJ, Sytsma KJ. 2016. Evolution of place and niche space: geographical diversification of the North American sedge flora (Cyperaceae). *Molecular Phylogenetics and Evolution*, 95, 183-195. **Featured in GBIF Science Review 2016**.

Givnish TJ, **Spalink D**, Ames M, Lyon SP, Hunter SJ, Zuluaga A, Doucette A, Caro G, McDaniel J, Clements M, Arroyo MTK, Endara L, Kriebel R, Williams N, Cameron KM. 2016. Orchid historical biogeography, diversification, Antarctica, and the paradox of orchid dispersal. *Journal of Biogeography*, 43(10), 1905-1916.

Givnish TJ, Zuluaga A, Marques I, Lam VKY, Gomez MS, Iles WJD, Ames M, **Spalink D**, Moeller J, Briggs BG, Lyon SP, Stevenson DW, Zomlefer W, Graham SW. 2016. Phylogenomics and historical biogeography of the monocot order Liliales: out of Australia and through Antarctica. *Cladistics*, 32(6), 581-605.

- Kartzinel RY, **Spalink D**, Waller DM, Givnish TJ. 2016. Divergence and isolation of cryptic sympatric taxa within the annual legume *Amphicarpaea bracteata*. *Ecology and Evolution*, 6(10), 3367-3379.
- Berger B, Kriebel R, **Spalink D**, Sytsma KJ. 2016. Divergence times, shifts in speciation rates, and historical biogeography of Myrtales. *Molecular Phylogenetics and Evolution*, 95, 116-136.
- Givnish TJ, **Spalink D**, Ames M, Lyon S, Hunter S, Zuluaga A, Iles W, Clements M, Arroyo MTK, Leebens-Mack J, Endara L, Kriebel R, Neubig K, Whitten M, Williams NH, Cameron KM. 2015. Orchid phylogenomics and multiple drivers of their extraordinary diversification. *Proceedings of the Royal Society of London B*, 282(1814), 20151553.
- Waterway MJ, Ford KA, Luceño M, Martin-Bravo S, Starr JR, Wilson O, Yano E, Zhang SR, Roalson EH, Alverson WS, Bruederle LP, Bruhl JJ, Chung K-S, Cochrane TS, Escudero M, Ford BA, Gebauer S, Gehrke B, Hahn M, Hipp AL, Hoffmann MH, Hoshino T, Jiménez-Mejías P, Jin X-F, Jung J, Kim S, Maguilla E, Masaki T, Miguez M, Molina A, Naczi RFC, Reznicek AA, Rothrock PE, Simpson D, **Spalink D**, Thomas WW, Villaverde T. 2015. Making *Carex* monophyletic (Cyperaceae, tribe Cariceae): a new broader circumscription. *Botanical Journal of the Linnean Society*, 179. 1-42.
- Sytsma KJ, **Spalink D**, Berger B. 2014. Calibrated chronograms, fossils, outgroup relationships, and root priors: re-examining the historical biogeography of Geraniales. *Biological Journal of the Linnean Society*, 113(1), 29-49.
- Léveillé-Bourret É, Gilmour CN, Starr JR, Naczi RF, **Spalink D**, Sytsma KJ. 2014. Searching for the sister to sedges (*Carex*): resolving relationships in the Cariceae-Dulichieae-Scirpeae clade (Cyperaceae). *Botanical Journal of the Linnean Society*, 176(1), 1-21.
- Knight KS, Herms D, Plumb R, Sawyer E, **Spalink D**, Pisarczyk E, Wiggin B, Kappler R, Menard K. 2012. Dynamics of surviving ash (*Fraxinus* spp.) populations in areas long infested by emerald ash borer (*Agrilus planipennis*). In *Proceedings of the 4<sup>th</sup> international workshop on the genetics of host-parasite interactions in forestry: disease and insect resistance in forest trees* (coord. by Sniezko, R.A., A.D. Yanchuk, J.T. Kliejunas, K.M. Palmieri, J.M. Alexander, S.J. Frankel). U.S. Department of Agriculture, Eugene, OR.
- PRESENTATIONS AT PROFESSIONAL MEETINGS** (first author presenting)
- Spalink D**, Pender J, Escudero M, Hipp A, Roalson E, Starr JR, Waterway M, Bohs L, Sytsma KJ. 2018. The spatial structure of sedge (Cyperaceae) diversity in North America. Botanical Society of America, Rochester, MN.
- Spalink D**, K Stoffel, GK Walden, AM Hulse-Kemp, T Hill, A Van Deynze, L Bohs. 2018. Comparative transcriptomics and genomic patterns of discordance in Capsiceae (Solanaceae). Botanical Society of America, Rochester, MN.
- Spalink D**. 2017. Diversification and assembly of the North American sedge flora. International Botanical Conference, Shenzhen, China.

- Spalink D**, R Kriebel, TJ Givnish, MA Feist, DM Waller, KM Cameron, KJ Sytsma. 2017. High-resolution spatial phylogenetics of the Wisconsin vascular flora. International Botanical Conference, Shenzhen, China.
- Spalink D**, E Léveillé-Bourret, JR Starr, KJ Sytsma. 2017. Divergent geographical, morphological, and ecological evolution in the bulrushes and cotton-grasses (Cyperaceae). International Botanical Conference, Shenzhen, China.
- Spalink D**, Bohs L, Stoffel K, Van Deynze A. 2017. Spiciness in the age of discordance: genomic patterns of incongruence among peppers (*Capsicum*) and relatives. International Botanical Conference, Shenzhen, China. (Poster)
- Spalink D**, Bohs L, Stoffel K, Van Deynze A. 2017. Spiciness in the age of discordance: genomic patterns of incongruence among peppers (*Capsicum*) and relatives. Species in the age of discordance, Salt Lake City, UT. (Poster)
- Bohs L, Dean E, Barboza G, Van Deynze A, Knapp S, Stoffel K, Hulse-Kemp A, Walden G, **Spalink D**. 2016. Getting to the root of pungency: phylogeny and taxonomy of *Lycianthes* and *Capsicum* (Capsiceae, Solanaceae). Solgenomics, Davis, CA. (poster)
- Spalink D**, Kriebel R, Givnish TJ, Feist M, Waller D, Cameron KM, Sytsma KJ. 2016. Disassembly and reassembly of the Wisconsin flora: phylogenetic and geographic patterns of diversity in a changing climate. Botanical Society of America, Savannah, Georgia.
- Drew BD, **Spalink D**, Sytsma KJ. 2016. A single dispersal event initiated diversification in the New World Menthinae (Lamiaceae). Botanical Society of America, Savannah, Georgia.
- Givnish TG, **Spalink D**, Ames M, Lyon S, Hunter S, Zuluaga A, Doucette A, Giraldo G, McDaniel J, Clements M, Arroyo MTK, Endara L, Kriebel R, Williams N, Cameron K. 2016. Orchid historical biogeography, diversification, Antarctica, and the paradox of orchid dispersal. Botanical Society of America, Savannah, Georgia.
- Cameron K, Kriebel R, **Spalink D**, Pace MC, Li Pan, Drummond C, Rose J, Zaborsky J, Alverson B, Givnish TJ, Waller D, Sytsma D. 2016. Relatedness among rare native species and invasive exotics quantified with a molecular community phylogeny of the Wisconsin Flora: implications for plant conservation. Botanical Society of America, Savannah, Georgia.
- Spalink D**, Léveillé-Bourret É, Starr JR, Sytsma KJ. 2015. Divergent geographical, morphological, and ecological evolution in the bulrushes (*Scirpus*) and cotton-grasses (*Eriophorum*). Botanical Society of America, Edmonton, Alberta.
- Spalink D**, MacKay R, Sytsma KJ. 2015. When you can't run and you can't hide: ongoing threats to a globally imperiled bulrush (*Scirpus*) revealed by genotyping-by-sequencing. Botanical Society of America, Edmonton, Alberta.
- Berger B, Kriebel R, **Spalink D**, Sytsma KJ. 2015. Divergence times, historical biogeography, and shifts in speciation rates of Myrtales. Botanical Society of America, Edmonton, Alberta, CA.
- Kriebel R, Berger B, **Spalink D**, Sytsma KJ. 2015. The evolution of shape and size in the pollen of Myrtales. Botanical Society of America, Edmonton, Alberta.
- Givnish TJ, **Spalink D**, Ames M, Lyon SP, Hunter S, Zuluaga A, Iles WJD, Clements MA, Arroyo, MTK, Leebens-Mack J, Endara L, Kriebel R, Neubig KM, Whitten MM,

- Williams NH, Cameron KM. 2015. Orchid phylogenomics and multiple drivers of their extraordinary diversification. Botanical Society of America, Edmonton, Alberta.
- Léveillé-Bourret É, Gilmour CN, Starr JR, Naczi RCF, **Spalink D**, Sytsma KJ. 2015. Searching for the sister to sedges (*Carex*): resolving relationships within the Cariceae-Dulichieae-Scirpeae clade (Cyperaceae). Botanical Society of America, Edmonton, Alberta.
- Spalink D**, Drew BT, Zaborsky J, Cameron K, Sytsma KJ. 2014. Evolution of niche space and place: reconstructing the ecological and biogeographical diversification of the North American sedges (Cyperaceae). Botanical Society of America, Boise, ID.
- Spalink D**, Drew BT, Zaborsky J, Starr JR, Cameron KM, Sytsma KJ. 2014. Historical biogeography and diversification of the cosmopolitan Cyperaceae. Botanical Society of America, Boise, ID.
- Sytsma KJ, **Spalink D**. 2014. Examining biogeographic and climatic niche evolution in *Clarkia* (Onagraceae) from the California Floristic Province. Botanical Society of America, Boise, ID.
- Sytsma KJ, **Spalink D**, Berger B. 2014. Calibrated chronograms, fossils, outgroup relationships, and root priors: re-examining the historical biogeography of Geraniales. Botanical Society of America, Boise, ID.
- Givnish TJ, Zuluaga A, **Spalink D**, Iles W, Lam V, Moeller J, Briggs B, Zomlefer W. 2014. Plastome phylogeny for the monocot order Liliales. Botanical Society of America, Boise, ID.
- Cameron K, Sytsma KJ, Waller DH, Givnish TG, Pace MC, Li P, **Spalink D**, Drummond C, Zaborsky J, Rose J, Alverson B, Kriebel R. 2014. A molecular phylogeny of the Wisconsin Flora. Botanical Society of America, Boise, ID.
- Spalink D**, Sytsma KJ. 2013. Phylogeny reveals a persisting polyphyly in the bulrushes (*Scirpus*, Cyperaceae): implications for a long-troubled taxonomy and insights into bulrush diversification. 5<sup>th</sup> International Conference on Comparative Biology of Monocotyledons, NY Botanical Garden.
- Spalink D**, Zaborsky J, Drew B, Pace M, Cameron KM, Sytsma KJ. 2013. Using regional flora barcode databases for large-scale phylogenetic reconstructions: a new and improved fossil calibrated phylogeny of the sedge family. 5<sup>th</sup> International Conference on Comparative Biology of Monocotyledons, NY Botanical Garden.
- Starr JR, Gilmour CN, Naczi RCF, Donadio S, Léveillé-Bourret E, Ford BA, **Spalink D**, Sytsma KJ. 2013. Phylogeny of the hyperdiverse Cariceae+Dulichieae+Scirpeae s.s. clade (Cyperaceae). 5<sup>th</sup> International Conference on Comparative Biology of Monocotyledons, NY Botanical Garden.
- Knight KS, Plumb R, Sawyer E, **Spalink D**, Menard K, Long RP. 2011. The legacy of emerald ash borer: ash mortality and floodplain restoration at Oak Openings Metropark. Oak Openings Research Forum, Toledo, OH.
- Spalink D**, Davis C, Evans TM. 2009. A Preliminary Phylogenetic Analysis of the Genus *Aneilema* (Commelinaceae) based on chloroplast DNA sequences. Botanical Society of America. Snowbird, UT. (poster)
- Spalink D**, Warners D. 2006. Native Habitat Plantings: Benefits, Assessments, and Best-Practices. American Scientific Affiliation, Grand Rapids, MI.

## INVITED LECTURES AND SEMINARS

Current: 23 October 2018

- 2015 University of Wisconsin-Madison, Botany 400: Plant Systematics. *When you can't run and you can't hide: ongoing threats to an imperiled bulrush (Scirpus longii, Cyperaceae).*
- 2015 University of Wisconsin-Madison, Botany 422: Plant Biogeography. *Harvesting and harnessing data for biogeographical research: where to look, what to take, and what to do with it.*
- 2014 University of Wisconsin-Madison, Botany 400: Plant Systematics. *Diversification of the North American Sedge Flora: Evolution of place and niche space.*
- 2014 University of Wisconsin-Madison, J.F. Crow Institute for the Study of Evolution: Evolution Seminar Series. *Diversification of the North American Sedge Flora: Evolution of place and niche space.*
- 2014 University of Wisconsin-Madison, Botany 940: Systematics Seminar. *Characterization and analysis of niche using tools in R.*
- 2013 University of Wisconsin-Madison, Botany 422: Plant Biogeography. *How to use online biogeographic data repositories: tips and cautions.*
- 2013 University of Wisconsin-Madison, Botany 400, Plant Systematics. *(Dis)assembly of the WI sedge flora: patterns of diversity in a changing climate.*
- 2012 Calvin College, Biology 346: Plant Taxonomy. *An introduction to molecular systematics.*
- 2012 Calvin College, Biology Seminar Series. *The past, present, and future of the bulrushes (Scirpus, Cyperaceae): Assessing the implications of endemism in a changing climate.*

#### **MEDIA COVERAGE**

- 2015 Orchids' dazzling diversity explained. *Science*, by Erik Stokstad.
- 2015 Orchid family tree explains widespread diversity. *Nature World News*, by Samantha Mathewson.
- 2015 Family tree for orchids explains their astonishing variability. *UW-Madison News*, by David Tenenbaum.

#### **TEACHING INTERESTS**

Biogeography  
Plant Systematics  
Evolutionary biology  
Phylogenetic analysis with R

#### **TEACHING EXPERIENCE (\* graduate course)**

- Fall 2018 University of Utah: ESSM 647: Range Grasses and Grasslands\*
- Spring 2016 University of Wisconsin-Madison, Botany 575: Desert Ecology and Evolutionary Biology.
- Spring 2012 University of Wisconsin-Madison, Botany 401: Vascular Flora of Wisconsin
- Fall 2011 University of Wisconsin-Madison, Botany 400: Plant Systematics
- Summer 2011 University of Wisconsin-Madison, Botany 455: Vegetation of Wisconsin
- Spring 2011 University of Wisconsin-Madison, Botany 401: Vascular Flora of Wisconsin
- Fall 2010 University of Wisconsin-Madison, Botany/Zoology 152: Intro Biology II
- Fall 2009 Grand Valley State University: General Biology II
- Spring 2009 Grand Valley State University: General Biology I
- Fall 2008 Grand Valley State University: The Biology of People

## MENTORSHIP OF UNDERGRADUATE RESEARCH TRAINEES

(Current position of former mentees in parentheses)

- 2017 – 2018 Maya Mukai  
University of Utah  
*Phylogenomics of Lycianthes and Capsicum*
- 2016–2018 Katie Sanbonmatsu  
University of Utah, Independent Research Project  
*Evolution of the pun1 pungency gene in peppers and relatives*
- 2016-2017 Charity Zitting (Ph.D. Student, University of Michigan)  
University of Utah  
*Systematics of Solanaceae*
- 2013-2014 Jessica Barber (Senior Horticulturalist, Tracy Aviary)  
University of Wisconsin-Madison, Independent Research Project  
*Population genetics of Scirpus longii (Cyperaceae)*
- 2013-2014 Kimberly Breunig (Researcher at UW Carbone Cancer Center)  
University of Wisconsin-Madison, Independent Research Project  
*DNA Barcoding of Wisconsin Juglandaceae*
- 2013 Benjamin Seliger (Masters student, University of Maine)  
University of Wisconsin-Madison, Independent Research Project  
*Climatic niche modeling of Scirpus longii (Cyperaceae)*
- 2012-2013 Siqi Cheng (Development Intern, Planned Parenthood of SW Ohio)  
University of Wisconsin-Madison, Independent Research Project  
*Molecular Systematics of Scirpus (Cyperaceae)*

## TRAINING AND WORKSHOPS LED

- 2015 *From 60 gb of raw sequence data to a phylogenetic tree: analysis of next-generation sequence data using custom perl, python, and R scripts.*  
Independent training for Department of Botany graduate students, University of Wisconsin-Madison.
- 2010-Present Trained 31 undergraduate and graduate students and postdocs in various laboratory and computation techniques, including DNA extraction, purification, and quantitation, PCR, Sanger sequencing, Illumina library preparation, R, morphometrics, and high-throughput data analysis.
- 2014 *Characterization and analysis of niche from the comfort of your R.* Systematics Seminar, Department of Botany, University of Wisconsin-Madison.
- 2014 *Analyzing next-generation genotyping-by-sequencing data using high-throughput cluster computing.* Cameron Lab, Department of Botany, University of Wisconsin-Madison.

## PROFESSIONAL MEMBERSHIPS

- 2015–Present American Association for the Advancement of Science
- 2011–Present Botanical Society of America
- 2011–Present J.F. Crow Institute for the Study of Evolution



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2008–Present American Society of Plant Taxonomists

### **ADDITIONAL TRAINING AND PROFESSIONAL EXPERIENCE**

- 2013 Attended “Workshop on New Methods for Phylogenomics and Metagenomics,” UT-Austin. Led by Tandy Warnow.
- 2010 Forest Monitor, Metroparks of the Toledo Area: Community structure and dynamics of surviving ash (*Fraxinus* spp.) populations after emerald ash borer (*Agrilus planipennis*) invasion.
- 2006–2007 Botany Program Assistant, Michigan Natural Features Inventory.
- 2006–2007 Quality Assurance Laboratory Technician, Mead Johnson Nutritionals, Zeeland, MI.

### **MANUSCRIPT REVIEWS**

*Journal of Biogeography, Systematic Botany, Molecular Phylogenetics and Evolution, International Journal of Plant Sciences, Annals of the Missouri Botanical Garden, Genetica, Journal of Systematics and Evolution, Ecography, BMC Evolutionary Biology, Caryologia*

### **OUTREACH, SERVICE, AND SYNERGY**

- 2018-Present Review Editor, *Plant Systematics and Evolution*.
- 2018 Review panel; American Society of Plant Taxonomists Graduate Student Research Award
- 2018 Judge; Undergraduate Research Symposium; University of Utah
- 2018 Judge; Salt Lake City School District Science and Engineering Fair; Elementary, Middle School, and High School divisions
- 2017 - Present Pen Pal to aspiring middle-school scientists. Letters to a Pre-Scientist Program. [www.prescientist.org](http://www.prescientist.org)
- 2017 - Present Mentor to high school research teams; Planting Science. [plantingscience.org](http://plantingscience.org)
- 2015 Hoofers Sailing Club volunteer: provided sailing instruction to at-risk, homeless, and runaway youth with Briarpatch Youth Services.
- 2015 Contributed figures: Spalink, A. and Magelssen, S. “Performing Speciation: The Nature/Culture Divide at The Creation Museum,” in *Theatre/Performance Historiography*. Ed. by R. Bank and M. Kobialka. London: Palgrave Macmillan.
- 2013–2015 Student representative: Website Committee; American Society of Plant Taxonomists.
- 2011–2014 Graduate student representative: Graduate Committee; Department of Botany, University of Wisconsin-Madison.
- 2014 Graduate student representative: Awards Committee; Department of Botany, University of Wisconsin-Madison.
- 2014 Science consultant for original theatre piece, *All the bodies in the room*. Produced and performed by Angenette Spalink and Slade Billew at PerformASTR, American Society for Theatre Research, Baltimore, MD.
- 2014 Composer for *All the bodies in the room*; transposed DNA sequence data into musical score. Produced and performed by Angenette Spalink and Slade Billew at PerformASTR, American Society for Theatre Research, Baltimore, MD.

Current: 23 October 2018

- 2012 Leader; Department of Botany Teaching Assistant Training; University of Wisconsin-Madison.
- 2012 Contributed 200+ photographs to Michigan Flora (available: michiganflora.net).
- 2012 Graduate student representative: search committee for Associate Professor of Ecophysiology; Department of Botany, University of Wisconsin-Madison.
- 2012 Host; Graduate Student Recruitment; Department of Botany, University of Wisconsin-Madison.
- 2011 Host; Graduate Student Recruitment; Department of Botany, University of Wisconsin-Madison.
- 2011 Graduate student representative: Awards Committee; Department of Botany, University of Wisconsin-Madison.
- 2008 Land steward; Calvin College, MI.