

Emily B. Sessa

Department of Biology
University of Florida
521A Bartram Hall
Gainesville, FL 32611

Office: (352) 392-1098
Fax: (352) 392-3704
Email: emilysessa@ufl.edu
Web: <http://emilysessa.com>

I. RESEARCH INTERESTS

Plant systematics and evolution, phylogenetics, historical biogeography, plant physiological ecology, functional traits, community assembly, niche modeling, reticulate evolution, ferns and lycophytes.

II. EDUCATION

- 2012 **University of Wisconsin–Madison**, Madison, Wisconsin
Ph.D., Botany
Dissertation: *Phylogenetics and physiological ecology of Dryopteris (Dryopteridaceae)*
Advisor: Dr. Thomas Givnish
- 2005 **Cornell University**, Ithaca, New York
B.A., *magna cum laude*, Ecology & Evolutionary Biology
Thesis: *Effects of the presence of a bryophyte layer on AMF colonization and phosphorus uptake in wetland vascular plants*
Advisor: Dr. Barbara Bedford

III. PROFESSIONAL APPOINTMENTS

- 2013–present **University of Florida**, Gainesville, Florida
Assistant Professor of Plant Systematics, Department of Biology
- 2013–present **Florida Museum of Natural History**, Gainesville, Florida
Affiliate Assistant Curator of Molecular Systematics, Department of Natural History
- 2014–present **University of Florida Genetics Institute**, Gainesville, Florida
Member
- 2012–2013 **University of Arizona**, Tucson, Arizona
Postdoctoral Research Associate, Department of Ecology and Evolutionary Biology
Supervisor: Dr. Michael Barker
- 2005–2007 **Paleontological Research Institution & Museum of the Earth**, Ithaca, New York
Assistant to the Director and Assistant Editor, *American Paleontologist* magazine

IV. FUNDING

- 2016–2019 NSF DEB 1541506 (GoLife program). Collaborative Research: Building a comprehensive evolutionary history of flagellate plants. PI: JG Burleigh, Co-PIs: **EB Sessa**, P Antonenko, EC Davis, SF McDaniel, H Cui, M von Konrat, E Gaus. \$2,321,452 (\$2,227,377 to UF).
- 2014–2016 Eppley Foundation for Research. A novel network and molecular approach to conserving the globally imperiled pine rockland ecosystem of south Florida. PI: B Baiser; Co-PIs: **EB Sessa**, J Hulcr. \$25,470.
- 2014 UF Genetics Institute 89167530. A Preliminary Investigation of Genome Size and Structure in Ferns: The Role of Transposable Elements and Duplicate Gene Copies. PI: PS Soltis; Co-PIs: WB Barbazuk, M Kirst, **EB Sessa**, DE Soltis. \$15,000.
- 2011 NSF DEB 1110335. Dissertation Research: Investigating Phylogeny, Reticulate Evolution, and Gene Tree Discordance in New World *Dryopteris* (Dryopteridaceae). PI: TJ Givnish; Co-PI: **EB Sessa**. \$14,864.
- 2011 MicroMORPH Training Grant, NSF (\$3,158)

2010	Research Grant, Huron Mountain Wildlife Foundation, Marquette MI (\$2,100)
2010	Graduate Student Research Grant, Botanical Society of America (\$500)
2010	Graduate Student Research Grant, American Society of Plant Taxonomists (\$750)
2010	Davis Research Grant, Botany Department, University of Wisconsin (\$1,500)
2004	Hatch/Multistate Grant, Dept. of Natural Resources, Cornell University (\$1,000)

V. PUBLICATIONS

21. The Pteridophyte Phylogeny Group*. A community-derived classification for extant lycopods and ferns (PPG I). *Journal of Systematics and Evolution*. *In review*. *This project was organized by E Schuettpelz, H Schneider, AR Smith, P Hovenkamp, J Prado, G Rouhan, A Salino, M Sundue, TE Almeida, B Parris, **EB Sessa**, AR Field, AL de Gasper, CJ Rothfels, MD Windham, M Lehnert, B Dauphin, A Ebihara, S Lehtonen, PB Schwartsburd, J Metzgar, L-B Zhang, L-Y Kuo, PJ Brownsey, M Kato, and MD Arana, with additional contributions from 68 contributors.
20. Chambers SM, JE Watkins, Jr., **and EB Sessa**. Differences in desiccation tolerance among populations of a gametophyte-only fern. *In revision*.
19. Pinson JB, SM Chambers, J Nitta, L-Y Kuo, **and EB Sessa**. The separation of generations: Biology and biogeography of long-lived, sporophyte-less fern gametophytes. *International Journal of Plant Sciences*. *In press*.
18. Link-Pérez MA, TG Ludwig, CJ Ledford, MH Seabolt, **and EB Sessa**. (2016) Lectotypification of *Adiantopsis alata* Prantl (Pteridaceae) and descriptions of new palmate species in the Guiana Shield. *Systematic Botany*. *In press*.
17. Haufler CH, KM Pryer, E Schuettpelz, **EB Sessa**, DR Farrar, R Moran, JJ Schneller, JE Watkins, Jr., and MD Windham. (2016) Sex and the single gametophyte: Revising the homosporous plant life cycle in light of contemporary research. *BioScience*. *In press*.
16. Visger CJ, CG Germain-Aubrey, M Patel, **EB Sessa**, PS Soltis, and DE Soltis. (2016) Niche divergence between diploid and autotetraploid *Tolmiea* (Saxifragaceae). *American Journal of Botany* 103(8): 1396–1406.
15. **Sessa EB**, W Testo, and JE Watkins, Jr. (2016) On the widespread capacity for, and functional significance of, extreme inbreeding in ferns. *New Phytologist* 211(3): 1108-1119. **This paper is featured on the cover of the volume in which it appears.**
14. **Sessa EB** and JP Der. (2016) Evolutionary genomics of ferns and lycophytes. Pgs. 215–254 in: Genomes and Evolution of Charophytes, Bryophytes, and Ferns. SA Rensing, Ed. *Advances in Botanical Research*, vol. 78. Elsevier.
13. Gardner AG*, **EB Sessa***, P Michener, E Johnson, KA Shepherd, DG Howarth, and RS Jabaily. (2016) Utilizing next-generation sequencing to resolve the backbone and inform taxonomy of the Core Goodeniaceae. *Molecular Phylogenetics and Evolution* 94:605–617. ***Authors contributed equally.**
12. Li Z, A Baniaga, **EB Sessa**, M Scascitelli, SW Graham, LH Rieseberg, and MS Barker. (2015) Early genome duplications in conifers and other seed plants. *Science Advances* 1(10): e1501084.
11. Wolf PG, **EB Sessa**, DB Marchant, F-W Li, CJ Rothfels, EM Sigel, MA Gitzendanner, CJ Visger, JA Banks, DE Soltis, PS Soltis, KM Pryer, and JP Der. (2015) An exploration into fern genome space. *Genome Biology and Evolution* 7(9): 2533–2544.
10. **Sessa EB**, L-B Zhang, H Väre, and A Juslén. (2015) What we do (and don't) know about ferns: *Dryopteris* (Dryopteridaceae) as a case study. *Systematic Botany*. 40(2): 387–399.
9. Tank DC, JM Eastman, MW Pennell, PS Soltis, DE Soltis, CE Hinchliff, JW Brown, **EB Sessa**, and LJ Harmon. (2015) Nested radiations and the pulse of angiosperm diversification: increased diversification rates often follow whole genome duplication. *New Phytologist* 207: 454–467.

8. Lessl JT, D-X Guan, **EB Sessa**, B Rathinasabapathi, and LQ Ma. (2015) Transfer of arsenic and phosphorus from soils to the fronds and spores of arsenic hyperaccumulator *Pteris vitatta* and non-arsenic hyperaccumulators. *Plant and Soil* 390: 49–60.
7. **Sessa EB**, JA Banks, MS Barker, JP Der, AM Duffy, SW Graham, M Hasebe, J Langdale, F-W Li, DB Marchant, KM Pryer, CJ Rothfels, SJ Roux, ML Salmi, EM Sigel, DE Soltis, PS Soltis, DW Stevenson, and PG Wolf. (2014) Between two fern genomes. *GigaScience* 3:15.
6. **Sessa EB** and TJ Givnish. (2014) Leaf form and photosynthetic physiology of *Dryopteris* species distributed along light gradients in eastern North America. *Functional Ecology* 28: 108-123.
5. **Sessa EB**, EA Zimmer, and TJ Givnish. (2012) Unraveling reticulate evolution in North American *Dryopteris* (Dryopteridaceae). *BMC Evolutionary Biology* 12(1): 104.
4. **Sessa EB**, EA Zimmer, and TJ Givnish. (2012) Reticulate evolution on a global scale: a nuclear phylogeny for New World *Dryopteris* (Dryopteridaceae). *Molecular Phylogenetics & Evolution* 64(3): 563-581.
3. Zhang L-B, L Zhang, S-Y Dong, **EB Sessa**, X-F Gao, and A Ebihara. (2012) Molecular circumscription and major evolutionary lineages of the fern genus *Dryopteris* (Dryopteridaceae). *BMC Evolutionary Biology* 12(12): 180.
2. **Sessa EB**, EA Zimmer, and TJ Givnish. (2012) Phylogeny, divergence times, and historical biogeography of New World *Dryopteris* (Dryopteridaceae). *American Journal of Botany* 99(4): 730-750.
1. Ross RM, F Allaby, CS Buckler, **EY Butler**, D Gabreski, L Paciulli, KJ Gremillion, and WD Allmon. (2008) The Hyde Park Mastodon Matrix Project, with particular reference to the mollusks and seeds. In *Mastodon Paleobiology, Taphonomy, and Paleoenvironment in the Late Pleistocene of New York State: Studies on the Hyde Park, Chemung, and North Java Sites* [WD Allmon and PL Nester, eds]. *Paleontographica Americana* 61: 111–134.

VI. PRESENTATIONS

Invited departmental seminars

2016	Department of Ecology, Evolution, and Organismal Biology, Iowa State University
2016	Department of Ecology & Evolutionary Biology, University of California, Santa Cruz
2014	Missouri Botanical Garden
2014	Finnish Museum of Natural History, University of Helsinki, Finland
2013	Department of Biology, Rhodes College, Memphis, Tennessee
2010	University & Jepson Herbaria, University of California, Berkeley

*Invited conference presentations (speaker indicated with *)*

2016	Sessa EB* , B Baiser, SM Chambers. Florida ferns: Community phylogenetics and traits. <i>In: Community Ecology of Florida. Symposium at ESA, Ft. Lauderdale, FL.</i>
2016	Chambers SM*, EB Sessa , B Baiser. Florida ferns: Species' distributions and climatic tolerances. <i>In: Community Ecology of Florida. Symposium at ESA, Ft. Lauderdale, FL.</i>
2016	Trotta LB*, B Baiser, J Possley, EB Sessa . Phylogenetic signal to invasion and rarity in Florida's imperiled Pine Rockland flora. <i>In: Community Ecology of Florida. Symposium at ESA, Ft. Lauderdale, FL.</i>
2016	Sessa EB* , SF McDaniel, EC Davis, P Antonenko, M von Konrat, E Gaus, and JG Burleigh. Building a comprehensive evolutionary history of flagellate plants <i>In: Seed-free plants at the genomics scale. Colloquium at Botany, Savannah, GA.</i>
2016	Marchant DB*, WB Barbazuk, EB Sessa , M Kirst, PS Soltis, and DE Soltis. Explorations into the C-Fern genome. <i>Plant & Animal Genome Conference (PAG) XXIV, San Diego, CA.</i>

- 2015 **Sessa EB***, P Szovenyi, S Graham, D Stevenson, P Wolf, C Rothfels, F-W Li, G K-S Wong, and J Der. Gametophyte vs. sporophyte dominance and accompanying changes in gene content across land plants. *In: Phylogenomics and the 1000 plants (1KP) initiative. Colloquium at Botany, Edmonton, Alberta, Canada.*
- 2015 **Sessa EB***, L Trotta, S Stevens, L Endara, JG Burleigh, B Baiser. Phylogenetic structure and diversity of Florida ferns. *In: The integration of ecological and phylogenetic approaches in pteridology. Colloquium at Next Generation Pteridology, Washington, D.C.*
- 2015 Der JP* and **EB Sessa**. Next-generation technology unfurls new opportunities for the next generation of pteridology. *In: Genomics and Transcriptomics of Ferns and Lycophytes. Colloquium at Next Generation Pteridology, Washington, D.C.*
- 2015 Marchant DB*, **EB Sessa**, K Heo, PS Soltis, and DE Soltis. Delving into the C-Fern genome. *In: Genomics and Transcriptomics of Ferns and Lycophytes. Colloquium at Next Generation Pteridology, Washington, D.C.*
- 2015 Wolf PG*, **EB Sessa**, DB Marchant, F-W Li, CJ Rothfels, EM Sigel, MA Gitzendanner, CJ Visger, JA Banks, DE Soltis, PS Soltis, KM Pryer, and JP Der. Skimming the surface of fern nuclear genomes. *In: Genomics and Transcriptomics of Ferns and Lycophytes. Colloquium at Next Generation Pteridology, Washington, D.C.*
- 2015 Zhan SH, CJ Rothfels, A Larsson, S Westrand, D Burge, M Ruhsam, F-W Li, EM Sigel, S Ellis, S Shaw, A Calcedo, T Chen, L DeGironomo, **EB Sessa**, JP Der, MS Barker, J Leebens-Mack, M Deyholos, G K-S Wong, DW Stevenson, and SW Graham*. Phylotranscriptomics of the seed-free vascular plants. *In: Genomics and Transcriptomics of Ferns and Lycophytes. Colloquium at Next Generation Pteridology, Washington, D.C.*
- 2014 Barker MS* and **EB Sessa**. Increases in plant diversity associated with changes in genome composition and WGDs. Evolution, Raleigh, NC.
- 2011 **Sessa EB***, Zimmer EA, and Givnish TJ. Phylogeny, physiology, and reticulate evolution: an integrated approach to North American *Dryopteris* (Dryopteridaceae). International Botanical Congress, Melbourne, Australia.
- 2009 **Sessa EB***. Phylogenetics and physiological ecology of North American *Dryopteris* (Dryopteridaceae). NSF-MORPH Workshop, *The Leaf: Integrating Evolution, Development, and Function*. University of Colorado, Boulder, CO.
- 2009 **Sessa, EB***. Relationships of North American *Dryopteris*. Cullowhee Conference: Native Plants in the Landscape, Western Carolina University, Cullowhee, NC.
- Contributed talks & posters (presenter indicated with *)*
- 2016 Pinson JB*, SM Chambers, and **EB Sessa**. Florida's sinkholes and the separation of generations in ferns. Botany, Savannah, GA.
- 2016 Trotta L*, B Baiser, J Possely, and **EB Sessa**. Phylogenetic signal of invasion and rarity in Florida's imperiled Pine Rockland flora. Botany, Savannah, GA.
- 2016 Chambers SM*, B Baiser, and **EB Sessa**. Distributions and environmental divergences of Floridian ferns. Botany, Savannah, GA.
- 2016 Michener P*, **EB Sessa**, C Bush, and RS Jabaily. Grow a backbone: mitochondrial exome sequencing provides a surprisingly rich source of phylogenetically informative characters in the enigmatic Australian clade *Goodenia* s.l. Botany, Savannah, GA.
- 2016 Jabaily RS*, AG Gardner, **EB Sessa**, P Michener, E Johnson, and KA Shepherd. Molecules, morphology, and monophyly: revising the enigmatic Australian clade *Goodenia* s.l. (Goodeniaceae) using comprehensive sampling and big data. Botany, Savannah, GA.

- 2016 Marchant DB*, WB Barbazuk, M Kirst, **EB Sessa**, PS Soltis, and DE Soltis. Gene evolution and specificity underlying the alternation of independent generations in *Ceratopteris richardii*. Botany, Savannah, GA.
- 2016 Jabaily RS*, A Gardner, KA Shepherd, **EB Sessa**, and DG Howarth. Phylogenetics and floral symmetry evolution of the core Goodeniaceae. Evolution, Austin, TX.
- 2016 Michener P*, **EB Sessa**, RS Jabaily. Utilizing genome skimming of the mitochondria, chloroplast, and nuclear genomes to resolve the recalcitrant *Goodenia* Clade C backbone. Evolution, Austin, TX. *Poster*.
- 2015 **Sessa EB***, M Vicent, and JM Gabriel y Galán. Exploring potential asymmetric hybridization in a Mediterranean fern complex: the *Asplenium obovatum* group. Botany, Edmonton, Canada.
- 2015 Marchant DB*, **EB Sessa**, K Heo, PS Soltis, and DE Soltis. Transcriptomic and genomic investigations of the homosporous fern, *Ceratopteris richardii*. Botany, Edmonton, Canada.
- 2015 Berger B*, V Ricigliano, **EB Sessa**, A Gardner, K Shepherd, J Han, RS Jabaily, and DG Howarth. Using genome skimming to uncover coding and regulatory sequences of floral symmetry genes in Core Goodeniaceae. Botany, Edmonton, Canada. *Poster*.
- 2015 Link-Pérez MA*, TG Ludwig, and **EB Sessa**. Investigating reticulate evolution in *Adiantopsis* using nuclear data: first glimpses. Next Generation Pteridology, Washington, D.C.
- 2015 Der JP*, **EB Sessa**, DB Marchant, F-W Li, CJ Rothfels, EM Sigel, JA Banks, MA Gitzendanner, CJ Visger, DE Soltis, PS Soltis, KM Pryer, and PG Wolf. Comparative exploration of fern genome space. Plant & Animal Genome (PAG) XXIII, San Diego. *Poster*.
- 2015 Zhan SH, CJ Rothfels, Z Xi, F-W Li, **EB Sessa**, MS Barker, JP Der, M Ruhsam, A Larsson, D Burge, L DeGironimo, S Ellis, CC Davis, PG Wolf, J Leebens-Mack, M Deyholos, G K-S Wong, DW Stevenson, SW Graham*. Phylotranscriptomics of ferns and lycophytes, two key lineages in land-plant evolution. Plant & Animal Genome (PAG) XXIII, San Diego. *Poster*.
- 2014 Gardner A*, K Shepherd, DG Howarth, J Fitz Gerald, **EB Sessa**, and RS Jabaily. In the Goodeniaceae, broad and deep sequencing facilitates taxonomic revision and development of the floral symmetry evolution model. Goodeniaceae Working Group Mini-Symposium, Western Australian Herbarium, Perth.
- 2014 **Sessa EB***, W Testo, R Momin, and JE Watkins, Jr. Mating systems in ferns: frequencies, functional significance, and phylogenetic signal. Botany, Boise, ID.
- 2014 Marchant DB*, **EB Sessa**, WB Barbazuk, PG Wolf, DE Soltis, and PS Soltis. Delving into the C-Fern genome. Botany, Boise, ID. *Poster*.
- 2014 Gardner AG*, **EB Sessa**, P Michener, KA Shepherd, and RS Jabaily. Leveraging the power of next-generation sequencing to resolve the phylogenetic backbone of Core Goodeniaceae. Botany, Boise, ID.
- 2013 **Sessa EB***, TJ Givnish, and MS Barker. Sequencing a Lazarus transcriptome: reconstructing "*Dryopteris semicristata*". Botany, New Orleans, LA.
- 2013 **Sessa EB***, MS Barker. Absolute dosage and functional diversification drive the majority of gene retention following polyploidy in the Compositae. Botany, New Orleans, LA.
- 2013 **Sessa EB***, MS Barker. Absolute dosage and functional diversification drive the majority of gene retention following polyploidy in the Compositae. Evolution, Snowbird, UT.

- 2012 **Sessa EB***, TJ Givnish. Leaf form and photosynthetic physiology of eastern North American *Dryopteris* (Dryopteridaceae). Botany, Columbus, OH.
- 2010 Gardner A*, **EB Sessa***, B Sidoti*, and EW Williams*. Ecological cladogenesis: Searching for adaptation on several scales. UW-Madison Evolution Seminar Series.
- 2010 **Sessa EB***, TJ Givnish, and EA Zimmer. Relationships of New World *Dryopteris*. Botany, Providence, RI.
- 2010 **Sessa EB***. Phylogenetics of North American *Dryopteris* (Dryopteridaceae). University of Wisconsin-Madison Biology Colloquium.
- 2009 **Sessa EB***, TJ Givnish, and EA Zimmer. Relationships of North American *Dryopteris* based on plastid and nuclear sequences. Botany, Snowbird, UT.
- 2008 Pryer KM*, **EY Butler**, D Farrar, R Moran, JJ Schneller, E Schuettpelz, JE Watkins, Jr., and MD Windham. On the importance of portraying the plant life cycle accurately: ferns as a case study. Botany, Vancouver, British Columbia.
- 2008 **Butler EY***, TJ Givnish. In the light of evolution: A proposal to integrate phylogeny and ecophysiology in New World *Dryopteris*. Botany, Vancouver, British Columbia. *Poster*.
- 2005 **Butler EY***. Effects of the presence of a bryophyte layer on AMF colonization and phosphorus uptake in wetland vascular plants. *Honors thesis symposium*, Department of Natural Resources, Cornell University.

VII. AWARDS & FELLOWSHIPS

- 2015 Global Fellows Program, University of Florida International Center
- 2015 Edgar T. Wherry Award, Botanical Society of America
- 2012 Exceptional Service Teaching Assistant Award, University of Wisconsin
- 2011 ON & EK Allen Memorial Fellowship, Botany Department, University of Wisconsin
- 2011 Graduate Student Research Fellowship, Torrey Botanical Society
- 2009 Davis Summer Fellowship, Botany Department, University of Wisconsin
- 2009 Honorable Mention, Graduate Research Fellowship (Pre-Doc), NSF
- 2008 Graduate Research Fellowship, National Museum of Natural History, Smithsonian Inst.

VIII. TEACHING (*Semesters taught: F=Fall, S=Spring, ##=Year*)

University of Florida, Instructor

- F16 BOT 6935, Special Topics: Ecophylogenetics Seminar (1 cr)
- S16 BOT 6935, Special Topics: Plant Physiology Reading Group (1 cr)
- F15 BSC 2011, Integrated Principles of Biology II (3cr)
- S15 BOT 6726/ZOO 6927, Principles of Systematic Biology (4cr)
- S15 BOT 5725, Taxonomy of Vascular Plants (4cr)
- F14, F16 BOT 2710, Practical Plant Taxonomy (3cr)
- S14 BOT 6935/BOT 4935, Special Topics: Variation & Evolution in Plants (1 cr)
- S14, S16 BOT 6935/ZOO 6927, Special Topics: Phylogenomics (2 cr)
- F13 BOT 6935/BOT 4935, Special Topics: Genome Doubling (1 cr)
- F13, F14, F15, F16 BOT 6935/ZOO 6927, Special Topics: Phylogenetic Systematics Seminar (1 cr)

University of Wisconsin–Madison, Graduate teaching assistant

- S12 Biocore 304, Cellular Biology Laboratory (2 cr)
- F09, F10 BOT 400, Plant Systematics (4 cr)

- S10, S11 BOT 401, Vascular Flora of Wisconsin (4 cr)
 F07, S08, S09 BOT 130, Introductory Botany (5 cr)
Cornell University, Undergraduate teaching assistant
 F04 NTRES 419, Wetland Ecology & Management Laboratory (3 cr)
 S12 Biocore 304, Cellular Biology Laboratory (2 cr)

IX. MENTORING

Postdoctoral Researchers

- 2014–present **Sally Chambers**, PhD 2014, Purdue University.

Graduate Students

- 2015–present **Christopher Krieg**, PhD Student. *Natural selection on genes and abiotic stress tolerance in an allotetraploid fern*. 2016–2019 NSF Graduate Research Fellow.
 2014–present **Jerald Pinson**, PhD Candidate. *Natural history and genetics of fern gametophytes*. Recipient of 2015 Sigma Xi award, 2016 Florida Native Plant Society Research award, and winner of the 2015 UF 3 Minute Thesis Competition.
 2014–present **Lauren Trotta**, MS '16. PhD Student. *Phylogenetic signal to invasion and rarity in Florida's imperiled Pine Rockland flora*. Co-advised by Ben Baiser, UF Dept. of WEC. Recipient of 2016 Florida Native Plant Society Research award.

Undergraduate Researchers (names are bolded for the year in which they joined the lab)

- 2016–2017 **Rodrigo Rivera**, Botany '17; **Emily Lockwood**, Biology '18; **Samantha Chavez**, Nutritional Sciences '18.
 2015–2016 **Rodrigo Rivera**, Botany '17 (2016 UF University Scholar); **Emily Lockwood**, Biology '18; **Matthew Richardson**, Biology '18; **Maria Rodriguez**, Biology '18; **Samantha Chavez**, Nutritional Sciences '18; **Allan Gonzalez**, WEC '16.
 2014–2015 **Allan Gonzalez**, WEC '16; **Kaitlynn Zemaitis**, Chem Eng '14; **Naomi Senehi**, Env Eng '17; **Mary Regan**, Ag Bio Eng '16; **Ashley Hale**, Chem Eng '16.
 2013–2014 **Naomi Senehi**, Env Eng '17; **Mary Regan**, Ag Bio Eng '16; **Ashley Hale**, Chem Eng '16.

X. SERVICE & OUTREACH

Service for the Profession

- 2015–present **Associate Editor**, *American Journal of Botany*
 2014–present **Communications Coordinator**, American Society of Plant Taxonomists
 2014–present **Proposal review**: NSF (panel, ad hoc), NASA (panel), Fonds de recherche du Québec (ad hoc)
 2010–present **Associate Editor**, *American Fern Journal*
 2009–present **Peer review for**: *American Fern Journal*, *American Journal of Botany*, *Botanical Journal of the Linnean Society*, *Conservation Genetics*, *Evolution*, *Genome Biology & Evolution*, *Genome*, *International Journal of Plant Sciences*, *Journal of Biogeography*, *Journal of Plant Research*, *Journal of Systematics and Evolution*, *Molecular Phylogenetics and Evolution*, *New Phytologist*, *Oxford Bibliographies*, *Phytotaxa*, *Plant Systematics and Evolution*, *PLOS One*, *Systematic Botany*, *Taxon*

Service for the Department, College, and University of Florida

- 2014–present **Member**, Biology Department Strategic Planning Committee
 2014–2015 **Member**, Biology Department Plant Genomics Preeminence Search Committee
 2014–present **Faculty advisor**, WiSE (Women in Science & Engineering), grad student organization
 2013–present **Faculty advisor**, GROW Botany (Gators Reaching Out With Botany), undergrad club

- 2013–present **Member**, Biology Department Greenhouse Committee
2013–2014 **Member**, Biology Department Chair Search Committee
2013 **Member**, Botany Major Review Committee

Outreach activities

- 2009–2013 **Scientist Mentor** and member of Master Plant Science Team (2009-2011),
PlantingScience.org: www.plantingscience.org
2008–present **Maintain online weblog** about fern biology and plant science: [http://
noseeds.blogspot.com](http://noseeds.blogspot.com)
2007–present **Public outreach** about fern biology & natural history, via walks, talks, and workshops.

XI. PROFESSIONAL AFFILIATIONS

American Fern Society, American Society of Plant Taxonomists, Botanical Society of America, Graduate Women in Science, Society for the Study of Evolution, Society of Systematic Biologists