

**TENURE AND PROMOTION CURRICULUM VITAE OF
ERIC J BISHOP-VON WETTBERG, BIOLOGICAL SCIENCES**

EDUCATION

Degree	Institution	Field	Dates
PhD	Brown University	Ecology and Evolution Advisor: Johanna Schmitt	2001-2007
B.A.	Swarthmore College	Biology, Phi Beta Kappa	1995-1999

FULL-TIME ACADEMIC EXPERIENCE

Institution	Rank	Field	Dates
Florida International University	Associate Professor	Biology	2016-
Florida International University	Assistant Professor	Biology	2010-2016
University of California, Davis	NIH NRSA Fellow, Advisors: Sergey Nuzhdin, Maureen Stanton	Genomics	2007-2009
Copenhagen University (RVAU)	Fulbright Scholar Advisor: Jacob Weiner	Agroecology	1999-2000

PART-TIME ACADEMIC EXPERIENCE

Institution	Rank	Field	Dates
Fairchild Botanic Garden	Conserv. Genetic.	Conservation	2010 -
ENSAT (France)	Research Fellow	Ecology	May 2011
NYS Dep. Env. Cons.	Naturalist Intern	Education	Spring 2000

EMPLOYMENT RECORD AT FIU

Rank	Dates
Assistant Professor	January 2010 – June 2016
Associate Professor	June 2016 -

PUBLICATIONS IN DISCIPLINE (38 total, 22 since joining the FIU faculty in Jan 2010)

Google Scholar Metrics:

<http://scholar.google.com/citations?user=4ROHkhYAAAAJ&hl=en>

H-index (all): 16

i-10 Index (all): 18

Total Citations: 802

Attributions:

1: Paper authored by graduate student

2: Paper authored by mentee

3: Corresponding author

4: Denotes equal contribution to authorship

Peer-Reviewed Publications

41. Fotinos TD, Clase T Veloz A, Jimenez F, Griffith MP, **von Wettberg EJ**. A minimally invasive, automated procedure for DNA extraction from epidermal peels of succulent cacti (Cactaceae). *Haseltonia*, *in press*.
40. Jones I², Koptur S, **von Wettberg EJ**. Extrafloral Nectar in Agriculture: Overcoming Context Dependence. *Journal of Applied Ecology*, **DOI: 10.1111/1365-2664.12778**
39. Penmetsa RV, Carrasquilla-Garcia N, Bergmann EM, Vance L, Castro B, Kassa MT², Sarma BK, Datta S, Dubey A, Gujaria N, Baek JM, Woodward JE, Farmer AD, Coyne CJ, Upadhaya H, **von Wettberg EJ**, Varshney RK, Cook DR. Allelic variation at a domestication-related transcription factor and the multiple origins of the *kabuli* chickpea (*Cicer arietinum*). *New Phytologist*, *New Phytol. doi:10.1111/nph.14010*
38. Warschefskey E¹, Klein L, Frank M, Chitwood DH, Londo J, **von Wettberg EJ**, Miller A. 2016. Rootstocks: diversity, domestication and impacts on shoot phenotypes. *Trends in Plant Science*, 21:418- 437. <http://dx.doi.org/10.1016/j.tplants.2015.11.008>
37. Moriuchi KS², Friesen ML, Cordeiro MA, Badri M, Vu WT, Main BA, Arraouadi S², Aouani ME, Nuzhdin SV, Cook DR, Strauss SY, **von Wettberg EJB**. 2016 Transgenerational plasticity for traits underlying salinity tolerance, local adaptation, and phenotypic integration in *Medicago truncatula*. *PlosOne DOI: 10.1371/journal.pone. 015035*
36. Kassa MT², van der Maesen LGT, Krieg C², **von Wettberg EJ**³. 2015 Pigeonpea in historical and phylogenetic perspectives. *Legume Perspectives*, 11: 36-38
35. Fotinos TD¹, Namoff S², Lewis C, Griffith MP, Maschinski J, **von Wettberg EJ**³ 2015 Genetic evaluation of a reintroduction of Sargent's Cherry Palm, *Pseudophoenix sargentii*. *Journal of the Torrey Botanical Society*, 142(1):51-62. 2015 doi: <http://dx.doi.org/10.3159/TORREY-D-14-00004.1>
34. Friesen ML⁴, **von Wettberg EJ**⁴, Badri M⁴, Moriuchi KS², Barhoumi F, Cuellar-Ortiz S, Chang PL, Cordeiro MA², Vu WT, Arrouadi S, Djebali N, Zribi K, Badri Y, Porter SS, Aouani ME, Cook DR, Strauss SY, Nuzhdin SV. 2014 The ecological basis of salinity adaptation in Tunisian *Medicago truncatula*. *BMC Genomics*. 15: 1160.
33. Toker C, Berger J, Kahraman A, Aydogan A, Can C, Bukun B, Penmetsa RV, **von Wettberg EJ**, Cook DR. *Cicer reticulatum* Ladizinsky, progenitor of the cultivated chickpea (*C. arietinum* L.). *Legume Perspectives, Issue 5, p26-27*

32. Warschefsky, EJ¹, Penmetsa RV, Cook DR, and **von Wettberg EJ³** 2014 Back to the wilds: tapping evolutionary adaptations for resilient crops through systematic hybridization with crop wild relatives, *American Journal of Botany*, 101:1791-1800
31. Roorkiwal M², **von Wettberg EJ**, Upadhyaya HD, Warschefsky EJ¹, Rathore A, Varshney RV. 2014 Exploring germplasm diversity to understand the domestication process in *Cicer* spp. using SNP and DArT markers. *Plosone* 9(7): e102016. Doi:10.1371/journal.pone.102016.
30. Cordeiro MA², Moriuchi KS², Fotinos TD¹, Miller KE², Nuzhdin SV, **von Wettberg EJ**, Cook DR. 2014 Germination and early seedling root growth reveal patterns for salinity adaptation in the annual legume *Medicago truncatula*. *American Journal of Botany* 101: 488-498
29. Oleas, NH², **von Wettberg EJ**, Negron-Ortiz V. 2014 Population Genetics of the Federally Threatened Miccosukee Gooseberry (*Ribes echinellum*), an endemic North American species. *Conservation Genetics* 15:749-755
28. Saxena RK², **von Wettberg EJ**, Upadhyaya HD, Sanchez V¹, Songok S, Saxena KB, Kimerto P, Varshney RK. 2014 Genetic diversity and demographic history of *Cajanus* spp. illustrated from genome-wide SNPs. *PloSOne*, DOI: 10.1371/journal.pone.0088568
27. Huber H, de Brouwer J, **von Wettberg, EJ**, During HJ, Anten NPR. 2013. More cells, bigger cells or simply reorganization? Alternative mechanisms leading to changed internode architecture under contrasting stress regimes. *New Phytologist* 201: 193-204
26. Castro BM², Moriuchi KS², Friesen ML, Badri M, Nuzhdin SV, Strauss SY, Cook DR, **von Wettberg EJ³**. 2013. Parental environments and interactions with conspecifics alter salinity tolerance of offspring in the annual *Medicago truncatula*. *Journal of Ecology* 101: 1281–1287
25. Kassa MT², Penmetsa, R.V, Carrasquilla-Garcia N, Sarma BK, Datta S, Upadhyaya HD, Varshney RK. **von Wettberg EJ**, and Cook DR. 2012. Genetic patterns of domestication in pigeonpea (*Cajanus cajana* (L.) Millsp) and wild *Cajanus* relatives. *PlosOne*, 7(6): e39563. doi:10.1371/journal.pone.0039563
24. **von Wettberg EJ³**, Stinchcombe JR, and Schmitt J. 2012. Early developmental responses modulate later plasticity to phytochrome-mediated cues. *PlosOne*. 7(3): e34121. doi:10.1371/journal.pone.0034121.
23. Huber H, **von Wettberg EJ**, Aguilera A., and Schmitt J. 2011. Testing mechanisms and context dependence of costs of plastic shade avoidance responses in *Impatiens capensis* (Balsaminaceae). *American Journal of Botany*. 98: 1602-1612

22. Friesen ML, Porter SS, Stark SC, **von Wettberg EJ**, Sachs J, and Martinez-Romero, E. 2011. Microbially mediated functional plant traits. *Annual Review of Ecology Evolution and Systematics*. 42: 23-46
21. Maschinski J, Ross M, Lui H, O'Brian J, **von Wettberg EJ**, and Haskins K. 2011. Sinking ships: conservation options for endemic taxa threatened by sea level rise. *Climatic Change*. 107: 147-167.
20. Mandle LM², Warren DL, Peterson AT, Hoffman M, Schmitt J, and **von Wettberg EJ³**. 2010. Niche expansion in introduced *Impatiens walleriana* populations (or not) depending on method of analysis. *PlosOne* 5(12): e15297. doi:10.1371/journal.pone.0015297.
19. Namoff S, Veloz A, Jimenez F, Rodriguez R, Peguero B, Lewis C, Moynihan J, Abdo M, **von Wettberg EJ**, Maunder M, Griffith P, Meerow A, and Francisco-Ortega, J. 2010. Sweet drinks are made of this: conservation genetics of an endemic palm species from the Dominican Republic. *Journal of Heredity*. 102: 1-10
18. Holdredge C², **von Wettberg EJ**, Bertness MB, Silliman BR. 2010. Differential nutrient uptake abilities underlie cryptic *Phragmites* invasion in New England salt marshes. *Oikos*. 119: 1776-1784.
17. **von Wettberg EJ³**, Stanton ML, and Whittall JB. 2010. How anthocyanin mutants respond to stress: The need to distinguish between stress tolerance and maximal vigor. *Evolutionary Ecology Research*. 12: 457-47
16. Turner TL, Bourne EC, **von Wettberg EJ**, Hu TL, and Nuzhdin SV. 2010. Population resequencing reveals local adaptation of *Arabidopsis lyrata* to serpentine soils. *Nature Genetics*. 42: 260-263
15. Friesen ML⁴, and **von Wettberg EJ^{3,4}** 2010 Adapting genomics to study the ecology and evolution of agricultural systems. *Current Opinion in Plant Biology*. 13: 119-125
14. Lee D. and **von Wettberg EJ**, 2010 Using bottles to study shade responses of seedlings and other plants. *Plant Science Bulletin*. 56:23-29.
13. Wright J, and **von Wettberg EJ**. 2009 Serpentinomics – an emerging field of study. *Northeastern Naturalist*. 16 (Special Issue 5): 285-296
12. Anten NPR, **von Wettberg EJ**, Pawlowski M, and Huber H. 2009 Interactive effects of spectral shading and mechanical stress on the expression and costs of shade avoidance. *American Naturalist*, 173:241-255.

11. Turner TL, **von Wettberg EJ**, Nuzhdin SV. 2008 Genomic analysis of differentiation between soil types reveals candidate genes for local adaptation in *Arabidopsis lyrata*. *PLoS ONE* 3(9): e3183. doi:10.1371/journal.pone.0003183
10. **von Wettberg EJ**³. Remington DL. and Schmitt J. 2008. Partitioning adaptation differentiation across a patchy landscape: Shade avoidance traits in *Impatiens capensis*. *Evolution*, 62, 654–667.
9. Tabak N, and **von Wettberg, EJ**, 2008. Native and introduced *Impatiens* of the Northeast: parallel introductions and global spread of temperate jewelweeds. *Northeastern Naturalist*, 15: 159-176.
8. **von Wettberg EJ**³. and Schmitt, J. 2005. An experimental separation of stem and leaf shade avoidance responses in *Impatiens capensis*. *American Journal of Botany*, 92: 868-874.
7. **von Wettberg EJ**³, Huber H. and Schmitt J. 2005. Interacting effects of microsite quality, plasticity, and dispersal distance from the parental site on fitness in a natural population of *Impatiens capensis*. *Evolutionary Ecology Research*. 7: 531-548
6. Gravuer K², **von Wettberg EJ**³, and Schmitt, J. 2005. Population differentiation and genetic variation inform translocation decisions for *Liatris scariosa* var. *novae-angliae*, a rare New England grassland perennial. *Biological Conservation*, 124: 155-167.
5. **von Wettberg EJ**³. and Weiner J. 2004. Effects of distance to crop rows and to conspecific neighbours on the size of *Brassica napus* and *Veronica persica* weeds. *Basic and Applied Ecology*, 5: 34-41.
4. Huber H, Kane N, Heschel MS, **von Wettberg EJ**, Banta J, Leuck A, and Schmitt J. 2004. Frequency and microenvironmental pattern of selection on plastic shade avoidance traits in a natural population of *Impatiens capensis*. *American Naturalist*, 163: 548-563.
3. Gravuer K², **von Wettberg EJ**³, and Schmitt J. 2003. Dispersal biology of *Liatris scariosa* var. *novae-angliae* (Asteraceae), a rare New England grassland perennial. *American Journal of Botany*. 90: 1159-1167.
2. **von Wettberg EJ**³, and Weiner J. 2003. Nutrient heterogeneity does not make belowground competition size-asymmetric in glasshouse populations of *Triticum aestivum*. *Plant Ecology*. 169: 85-92.
1. Richards MH, **von Wettberg EJ**, and Rutgers A. 2003. A novel social polymorphism in a primitively eusocial Hymenopteran. *Proceedings of the National Academy of Science USA*, 100: 7175-7180.

Chapters in Books

3. Krieg CP, Kassa MT, **von Wettberg EJ**. Genomic resources in pigeonpea. Chapter in *The Pigeonpea Genome: a compendium*. Eds. Varshney R, Saxena R, Jackson S. Springer. *In Press*
2. **von Wettberg EJ**³, Ray-Mukherjee J², D'Adesky N², Nesbeth D¹, Sistla S. The evolutionary ecology and genetics SRS traits: revisiting Chapin, Autumn, and Pugnaire 1993. 2014 Chapter 9 In *Plant Ecology and Evolution in Harsh Environments* (Rajakaruna N, Boyd RS, and Harris TB eds), Nova Publishers
1. **von Wettberg EJ**³, and Wright J. 2011. Genomic approaches to understanding adaptation. In *Serpentine: a model for Evolution and Ecology*. Rajakaruna, N., and Harrison, S.P. (Eds). University of California Press.

Government Reports

- von Wettberg EJ**, Warschefsky EJ, Reynaldo Y, Chang P, and Negron-Ortiz V. 2015. Comparison of RAD-seq and microsatellites for the conservation genetics of Harper's Beauty, *Harperocallis flava*. Florida Department of Transportation

Book Reviews and Commentaries

3. **von Wettberg EJ**³, Marques, E¹ and Murren, CJ 2016, Local adaptation or foreign advantage? Effective use of a single-test site common garden to evaluate adaptation across ecological scales. *New Phytol*, 211: 8–10. doi:10.1111/nph.14029
2. **von Wettberg EJ**³, Vance W, and Rowland, D. News and Views: The Park Grass Experiment and Next Generation Approaches: Local adaptation of Sweet Vernal Grass revisited. 2014 *Molecular Ecology*, 23, 5931-5933. DOI: 10.1111/mec.13007
1. Mukherjee J², and **von Wettberg EJ**³, 2011. The broad spectrum of molecular approaches in conservation and management. *Ecology*, 92: 1377-1382.

Other Publications (non-peer reviewed)

- Krieg CK, Jimenez S, Vargas D, Penmetsa RV, **von Wettberg EJ**. 2015. Bringing Florida a new vegetable from the semi-arid tropics. *The Tropical Garden*. Fall 2015, 23-26. NPR- member magazine of FTBG
- Fotinos TD¹, Maschinski J, and **von Wettberg EJ**. 2014. Saving the endangered Florida Key Tree cactus (*Pilosocereus robinii*) using new genetic tools. Palmetto, 31-12-15, Fall 2014. NPR – member magazine of the Florida Native Plant Society

- Von Wettberg EJ.** 2011. Conservation genetics for a changing heterogenous world. *The Tropical Garden*. Summer 2011, 23-26. NPR- member magazine of FTBG
- von Wettberg, EJ.** 2011. Native in Miami. *Tillandsia*. September 2011. NPR – member magazine of the Dade County Native Plant Society
- Abdo, M.E., McLaughlin, P., Campbell, K., Jestrow, B., and **von Wettberg, E.J.**, 2010. Science at Fairchild: cutting edge biodiversity conservation and genomics research in Jamaica. *The Tropical Garden*. Fall 2010. 23-26. NPR- member magazine of FTBG
- von Wettberg, E.J.** 2004. Transvestism of the Land. *Watersheds*. 2: 24-26. NPR – *Literary Magazine*
- von Wettberg, E.J.** 2001. Muskrat Ramble *New York State Conservationist* 56: 8-10. NPR – *New York State Department of Environmental Conservation Magazine*
- von Wettberg, E.J.** 2001. A Guided Tour of the Madison Lane Wetland. A pamphlet printed by the Madison Lane Landtrust, Hamilton, N.Y., USA

PRESENTATIONS AND LECTURES

Presentations at Scientific Meetings (since 2010)

- von Wettberg EJ**, Chang P, Reynaldo Y, Ogutcen E, Possley J Lange J, and Sadle J. 2016. Conservation genetics of the South Florida *Tephrosia* complex. International Pine Rockland Conference, Fairchild Tropical Botanic Garden.
- von Wettberg EJ**, Chang P, Reynaldo Y, Ogutcen E, Possley J Lange J, and Sadle J. 2016. Conservation genetics of the South Florida *Tephrosia* complex. South Florida CESU symposium, Biscayne Bay National Park.
- von Wettberg EJ**, Berger J, Bukun B, Aydogan A, Kahraman A, Greenspan A, Warschefsky EJ, Reynaldo Y, Calheiros-Dacosta E, Chang P, Nuzhdin SV, Penmetsa RV, Cook DR. 2016. Positive and relaxed selection affected traits during and after the domestication of chickpea. International Legume Society 2nd Congress. Invited seminar, Troia, Portugal.
- Warschefsky EJ and **von Wettberg EJ**. Population genomics of the genus *Mangifera*. 2016. American Society of Botany Annual Meeting. Savannah, Ga. – Given by Emily Warschefsky
- von Wettberg EJ** and Machovina B. Mapping suitable environment space for chickpea in the face of climate change. 2016. USAID Feed the Future Chickpea Innovation Laboratory Annual Meeting, Izmir, Turkey.

- von Wettberg EJ**, Berger J, Bukun B, Aydogan A, Kahraman A, Greenspan A, Warschefsky EJ, Reynaldo Y, Calheiros-Dacosta E, Chang P, Nuzhdin SV, Penmetsa RV, Cook DR. 2016. Postive and relaxed selection affected traits during and after the domestication of chickpea. Plant and Animal Genome Conference. Invited seminar
- von Wettberg EJ**. Utilizing crop wild relatives to create climate resilient crops. 2015. Agents of Change. Symposium at the National Tropical Botanic Garden Annual Meeting, Miami Beach, FL.
- von Wettberg EJ**. Advances in our understanding of Wild Cicer Ecology. USAID Feed the Future Chickpea Innovation Laboratory Annual Meeting, Debre Zeit, Ethiopia.
- von Wettberg EJ**, Berger J, Bukun B, Aydogan A, Kahraman A, Greenspan A, Warschefsky EJ, Reynaldo Y, Calheiros-Dacosta E, Chang P, Nuzhdin SV, Penmetsa RV, Cook DR. 2015. Back to the Wilds: collecting wild chickpea to improve germplasm collections. 2015 Botanical Society of America annual conference
- von Wettberg EJ**, Berger J, Bukun B, Aydogan A, Kahraman A, Greenspan A, Warschefsky EJ, Reynaldo Y, Calheiros-Dacosta E, Chang P, Nuzhdin SV, Penmetsa RV, Cook DR. 2015. Back to the Wilds: collecting wild chickpea to improve germplasm collections. 2015 Society for the Study of Evolution annual conference
- von Wettberg EJ**, How to create a tropical plant from a temperate one. 2015. Plant Biologists of South Florida Meeting.
- von Wettberg EJ**, Berger J, Bukun B, Aydogan A, Kahraman A, Greenspan A, Warschefsky EJ, Reynaldo Y, Calheiros-Dacosta E, Chang P, Nuzhdin SV, Penmetsa RV, Cook DR. 2015. Genomics of wild Cicer in Turkey. Plant and Animal Genome Conference. Invited seminar
- Penmetsa RV, Chang P, Kahraman A, Berger J, Bukun B, Aydogan A, Carassquilla-Garcia N, Greenspan A, Mir R, Mamo B, Vancce L, Warschefsky EJ, Calheiros-Dacosta E, Corbu L, Bergman E, Vu W, Nuzhdin SV, **von Wettberg EJ**, Cook DR. 2015. Back to the future: prospecting wild crop relatives for improvement of chickpea. Plant and Animal Genome Conference
- Mamo B, Greenspan A, Reynaldo Y, Vu W, Kahraman A, Dean M, Nuzhdin SV, Penmetsa RV, Cook DR, **von Wettberg EJ**. 2014. Morphometric variation in wild chickpea seeds. Botanical Society of America Conference
- von Wettberg EJ**, Warschefsky EJ, Chang P, Berger J, Greenspan A, Bukun B, Aydogan A, Kahraman A, Nuzhdin SV, Penmetsa RV, Cook DR. 2014.

- Population genetics of wild chickpea. Botanical Society of America Conference (presented by PhD student Emily Warschefsky)
- Cook DR, **von Wettberg EJ**, Warschefsky EJ, Chang P, Berger J, Greenspan A, Bukun B, Aydogan A, Kahraman A, Nuzhdin SV, Penmetsa RV. 2014. Taking a walk on the wild side: prospecting for climate resilience and nitrogen fixation traits in the wild progenitors of cultivated chickpea. International Congress on Legume Genetics and Genomics Conference
- Greenspan A, Kim DH, Chang P, Khan AW, Bergmann EW, Sanchez V, Scharnagl K, Kaashyap M, Yasin M, Kaur J, Singh S, Upadhyaya HD, Gaur P, Penmetsa RV, **von Wettberg EJ**, Varshney RK, Cook DR, 2014. The Impact of Domestication on Nitrogen Fixation in Chickpea: Parallel Shifts in Bacterial Genome Structure and Host Selectivity. Plant and Animal Genome Conference
- Penmetsa RV, Greenspan A, Carrasquilla N, Siler EA, Rose JL, Fikre A, Varshney RK, Friesen ML, Nuzhdin S, Bukun B, Berger JD, Kahaman A, **von Wettberg EJ**, Cook DR. 2014. Ecological Genomics at Chickpea's Center of Origin: Mining Wild Crop Relatives for Climate Resilience and Nitrogen Fixation for Crop Improvement in the Developing World. Plant and Animal Genome Conference
- Von Wettberg EJ** 2013 Bottlenecks and their effects on symbiont genetic diversity. Botanical Society of America Conference, Invited Symposium Presentation.
- Von Wettberg EJ** 2013 Genetic Bottlenecks in Florida and the Caribbean. Network for Neotropical Biogeography Conference
- von Wettberg EJ** 2013 Successes and failures in the inversion of a large enrollment majors Evolution course. Society for Integrative and Comparative Biology Annual Conference
- Fotinos, TD, Maschinski, J, **von Wettberg EJ**. 2013. Genetic structure of the Florida Key Tree Cactus, *Pilosocereus robinii*, using Restriction-site associated DNA sequencing. Botanical Society of America Annual Conference
- von Wettberg EJ** and Doscher S. 2012. A Mock trial pedagogy in STEM courses. STEM meeting of the American Association of Colleges and Universities
- von Wettberg EJ** Jestrow B Warschefsky E Duyck F. 2012 Legume and symbiont phylogeography of South Florida. Bi-annual International Congress on Legume Genetics and Genomics Conference
- Penmetsa RV, Carrasquilla-Garcia N, Bergmann EM, Vance L, Castro B, Kassa MT, Sarma BK, Datta S, Dubey A, Gujaria N, Baek JM, Woodward JE, Farmer AD, Coyne CJ, Upadhaya H, **von Wettberg EJ**, Varshney RK, Cook DR. Allelic variation at a domestication-related transcription factor and the multiple origins of

the *kabuli* chickpea (*Cicer arietinum*). Bi-annual International Congress on Legume Genetics and Genomics Conference

Fotinos T, and **von Wettberg EJ**. 2012. How RAD: Conservation Genetics of *Pilosocereus robinii*. FIU MBRS Symposium (presented by Tonya Fotinos, FIU student).

von Wettberg EJ 2012 Pigeonpea: Genetic and cultural history, and future prospects for development in the Caribbean. University of the West Indies 50/50 Conference celebrating 50 years of independence

Fotinos T, and **von Wettberg EJ**. 2011. Methods for determining the number of populations. FIU MBRS Symposium (presented by Tonya Fotinos, FIU student)

Soler, M and **von Wettberg EJ**. Ion uptake and salt tolerance in *Medicago truncatula*. FIU MBRS Symposium (Presented by Michael Soler, FIU student)

von Wettberg EJ Friesen ML Strauss SY Cook DR Nuzhdin SN 2011 Flowering time and salt tolerance in *Medicago truncatula*. Bi-annual Model Legume conference, St. Tropez, France.

von Wettberg EJ 2011 Maternal effects on salt tolerance. Plant Biologist of South Florida International University

von Wettberg EJ 2010 Salt tolerance in *Medicago* and other legumes. Plant Biologists of South Florida, University of Miami

Invited University and Institutional Presentations

(all with EvW as first author and presenter, since 2010 only)

2016 University of Saskatchewan, The Hunt for wild chickpea: utilizing wild germplasm to expand the genetic base of a Middle Eastern Founder crop and understand domestication
ICARDA (International Center for Agricultural Research in Desert Areas), Rabat, Morocco, The Hunt for wild chickpea: utilizing wild germplasm to expand the genetic base of a Middle Eastern Founder crop and understand domestication
Addis Ababa University, Tools for the analysis of genetic diversity and spatial data.
University of Southern California, Ecology of Wild Cicer.
Washington State University, Collecting and characterizing Wild Cicer germplasm
USDA ARS Chapman Field, Collecting and characterizing Wild Cicer germplasm

2015 Akdeniz University, Antalya Turkey, Genomics of Wild Cicer
Addis Ababa University, Evolutionary Ecology of Wild Cicer
University of California Davis, Evolutionary Ecology of Wild Cicer

- University of California Davis, Adapting Evolutionary Genomics for Agriculture
University of Southern California Catalina Island, Ecology of Wild Cicer
Fairchild Tropical Botanic Garden, How to make a temperate crop tropical
University of Miami, Biological Sciences, Ecological Genomics of Wild Cicer
Maryville University, Chesterfield, Missouri. Ecological Genomics of Wild Cicer
The Danforth Center, St. Louis, Missouri. Exploring, Utilizing, and Conserving
Crop Wild Relative Diversity
- 2014 Harran University, Turkey, Evolutionary Ecology of Wild Cicer
Dicle University, Turkey, Evolutionary Ecology of Wild Cicer
USDA ARS, Pullman, WA, Evolutionary Ecology of Wild Cicer
University of Florida, Gainesville, Evolutionary Ecology of Wild Cicer
University of Florida, Homestead TREC, Evolutionary Ecology of Wild Cicer
University of Vermont, Local adaptation in the age of Genomics
University of Southern California, Conservation Genomics of rare Cacti
University of Texas, Tyler, Local adaptation in the age of Genomics
- 2012 USDA ARS Chapman Field Research Station, Adapting evolutionary ecology to
improve agriculture
- 2011 Swarthmore College, Biology, Local Adaptation in the age of Genomics
Florida International University, SERC, Adapting evolutionary ecology to
improve agriculture
Ecole Nacional Superieure Agronomique de Toulouse, Ecology, Adapting
evolutionary ecology to improve agriculture
Ecole Nacional Superieure Agronomique de Toulouse, Legumes Biology Group,
Adapting evolutionary ecology to improve agriculture
Florida International University, Environmental Sciences, Adapting evolutionary
ecology to improve agriculture
Florida International University, Pre-dental society, Adapting evolutionary
ecology to improve agriculture
Florida International University, Global Learning Blast, Mock Trials in
Population Genetics
- 2010 Florida International University, Marine Sciences, Adapting evolutionary ecology
to improve agriculture

Public Presentations

(all with EvW as first author and presenter, since 2010 only)

- 2016 Miami Pulse, Celebration of the International Year of the Pulse. FIU BBC,
organized by the Chaplin School of Hospitality
- 2016 The Kampong, National Tropical Botanic Garden, Using legumes to teach about
the nitrogen cycle, Miami-Dade County Schools Teacher workshop Miami FL.

- 2015 Treasure Village Montessori School, Collecting plants: a travel treasure hunt, Islamorada FL.
- 2015 Clima Art Exhibit: an interactive exhibit and panel on climate change impacts, BEEWARE panel. Doral, FL
- 2015 The Kampong, National Tropical Botanic Garden, Why we need plant collections: the legacy of Fairchild and Vavilov in the age of genomics
- 2013 TEDxFIU Reimagining Agriculture.
- 2012 Dade Native Plant Society, Conservation Genomics of Rare Cacti
- 2010 Broward College Darwin Day Event, Darwin and Agriculture in the Age of Genomics.

Posters (since 2010)

(presented by EvW unless otherwise noted)

- 2016 Botanical Society of America Conference, Savanna Georgia. Response to nitrogen differs in wild and cultivated chickpea – Presented by Rebecca Valls, FIU student
- Botanical Society of America Conference, Savanna Ga. A Preliminary Phylogeny for *Mangifera* (Anacardiaceae) – co-author with FIU graduate student Emily Warschefsky
- Flora Melanesian Conference, Edinburgh, UK. A Preliminary Phylogeny for *Mangifera* (Anacardiaceae) – co-author with FIU graduate student Emily Warschefsky
- International Pine Rockland Conference, Fairchild Tropical Botanic Garden. Cardinal temperatures for germination in two tropical grain legumes – co-author with FIU graduate student Edward Marques.
- Sigma Xi National Research Conference. Collecting and utilizing wild chickpea genetic diversity
- 2015 International Mango Conference, Darwin, Australia. Insights into the genetic composition of the mango – Presented by Emily Warschefsky, FIU student
- FIU undergraduate research conference. Developing Young Scientists: Implementing a Collaborative Symbiosis Experiment as an Effective Tool in Classrooms – Presented by Rebecca Valls, FIU undergrad.
- Plant and Animal Genome, San Diego, Ca. Population Genetic Diversity of 1000 accessions of wild chickpea – Presented by Dr Peter Chang, UC Davis postdoc

- Annual Mango Growers Summit, Fairchild Tropical Botanic Garden, Coral Gables, FL. Chemical composition of mango fruits – Presented by Ignacio Sanchez, visiting Mexican Msc student
- 2014 International Congress on Legume Genetics and Genomics, Saskatoon, SK, Canada. Microenvironmental variation in natural habitats of wild chickpea
- Botanical Society of America, Boise, ID. Insights into the genetic composition of the mango – Presented by Emily Warschefsky, FIU student
- Plant and Animal Genome, San Diego Ca. Genetic Structure of the Florida Key Tree Cactus, *Pilosocereus robinii*, Using Restriction Site Associated DNA (RAD) Markers.
- Society for Integrative and Comparative Biology, Austin, TX. Teaching with data and student perception of active learning and inverted classroom.
- 2013 Plant and Animal Genome, San Diego Ca. Characterizing Rhizobial Diversity in Legumes from Pine Rockland Soils in South Florida – Presented by Vanessa Sanchez, FIU student
- Plant and Animal Genome, San Diego, Ca. Diversity assessment in *Cajanus* germplasm using single-nucleotide polymorphisms (SNPs) – co-author with presenter Dr Rachit Saxena, postdoc ICRISAT
- Plant and Animal Genome, San Diego, Ca. Diversity analysis in chickpea germplasm using SNP and DArT markers – coauthor with Dr Manish Rookiwal, postdoc ICRISAT
- Botanical Society of America, New Orleans, La. A Preliminary Phylogeny for *Mangifera* (Anacardiaceae) – co-author with FIU graduate student Emily Warschefsky
- 2012 International Congress on Legume Genetics and Genomics, Hyderabad India, Characterizing rhizobial diversity in legumes from pine rockland soils in South Florida – Presented by Vanessa Sanchez, FIU graduate student
- International Congress on Legume Genetics and Genomics, Hyderabad India, Genetic Diversity of the *Chamaecrista fasciculata* USDA core collection
- International Congress on Legume Genetics and Genomics, Hyderabad India, Diversity analysis in chickpea germplasm using SNP and DArT markers – coauthor with presenter Dr Manish Rookiwal, postdoc ICRISAT
- International Congress on Legume Genetics and Genomics, Hyderabad India, Diversity assessment in *Cajanus* germplasm using single-nucleotide polymorphisms (SNPs) – co-author with presenter Dr Rachit Saxena, postdoc ICRISAT

- International Congress on Legume Genetics and Genomics, Hyderabad, India. Examination of relationship of rhizobium sequences and chickpea traits for efficient nitrogen fixation –co-author with presenter Dr Donghyun Kim, ICRISAT postdoc
- International Congress on Legume Genetics and Genomics, Hyderabad, India. Combining genomics, association genetics, and ecology to uncover genes and traits for salinity adaptation in *Medicago*. Co-author with presenter Matilde Cordeiro, graduate student
- Celebrating 30 years of the flora of the Bahamas. College of the Bahamas, Nassau, the Bahamas. Conservation Genetics of *Pilosocereus robinii*.
- Botanical Society of America. Population Genetics of the Federally Threatened Miccosukee Gooseberry (*Ribes echinellum*). Presented by Dr Nora Oleas
- Plant Biologists of South Florida. Population Genetics of the Federally Threatened Miccosukee Gooseberry (*Ribes echinellum*).
- FIU Biology Symposium. Patterns of genetic variation in the *Chamaecrista* species of south Florida. Presented by Emily Warschefsky, FIU student
- 2011 Plant and Animal Genome, San Diego, Ca. Genetic patterns of domestication in pigeonpea (*Cajanus cajana* (L.) Millsp) and wild *Cajanus* relatives – Presented by Muluaem Kassa, UC Davis Graduate student
- Botanical Society of America, St. Louis, Mo. Maternal Environmental Effects on *Medicago truncatula*.
- Botanical Society of America, St. Louis, Mo. Conservation genetics of the endangered Sargent’s Cherry Palm, *Pseudophoenix sargentii*. Presented by Tonya Fotinos, FIU student
- Botanical Society of America, St. Louis, Mo. Patterns of genetic variation in the *Chamaecrista* species of south Florida. Presented by Emily Warschefsky, FIU student
- FIU Biology symposium. Conservation genetics of the endangered Sargent’s Cherry Palm, *Pseudophoenix sargentii* Presented by Tonya Fotinos, FIU student
- 2010 International Congress on Legume Genetics and Genomics, Asilomar, Ca. Maternal Environmental Effects on *Medicago truncatula*.
- International Congress on Legume Genetics and Genomics, Asilomar, Ca. Mechanisms of salt tolerance in *Medicago truncatula*.

WORKS IN PROGRESS

von Wettberg EJ, Berger J, Chang PL, Greenspan A, Moenga S, Mamo B, Dacosta-Calheiros E, Moriuchi KS, Warschefsky EJ, Reynaldo Y, Rose J, Carrasquilla-Garcia N, Yilmaz MA, Temel H, Ziegler G, Baxter I, Nuzhdin SV, Bekun B, Aydogan A, Kahraman A, Penmetsa RV, Cook DR. New collections of a wild relative of chickpea to expand crop adaptation. In review *Nature Communications*

Cordeiro MA, Moriuchi KM, Chang PL, Kyu H, Mun JH, Oh MJ, Kim N, Vu WT, **von Wettberg EJ**, Friesen ML, Fevereiro PS, Strauss SY, Nuzhdin SV, Cook DR. Independent evolution of Portuguese and Tunisian *Medicago truncatula* that occur in environments that contrast in salinity. In review *Molecular Ecology*

von Wettberg EJ, Warschefsky EJ, Reynaldo Y, Chang PL, and Negron-Ortiz V. Comparison of RAD-seq and microsatellites for the conservation genetics of Harper's Beauty, *Harperocallis flava*. in review, *International Journal of Plant Science*

Oleas NH, Peterson C, Thompson J, Richardson ML, Reynaldo Y, **von Wettberg EJ**. Genetic and environmental variation among populations of *Vicia ocalensis* in the Ocala National Forest. In review *International Journal of Plant Sciences*

Krieg CP, Valls R, Vatland S, Gordnier J, Porter SS, Friesen ML, **von Wettberg EJ**. Nitrogen Fixation: Fixing the Gap Between Concept and Evidence Based Learning with Legume Biology. *American Biology Teacher*, in review

von Wettberg EJ, Mock trials in the classroom as a method of population genetics instruction and vehicle for global learning objectives. In preparation for *Evolution: Education and Outreach*.

Damaso N, Mendoza M, Oliva Y, Diaz A, **von Wettberg EJ**, Narisihan G, Mills D. Spatial autocorrelation of soil biota profiles with geographic location can be used for soil provenance. *International Journal of Forensic Science*, in review.

Scharnagl K and **von Wettberg EJ**, Salt accumulation in fungi. *American Journal of Botany*, in revision

Scharnagl K, Sanchez V, **von Wettberg EJ**, Jayachandran K. The Impact of Soil Salinization on Arbuscular Mycorrhizal Colonization of the South Florida Legume *Galactia smallii*. *Florida Scientist*, in revision

Grant Pending and planned

Von Wettberg EJ (PI), Maxted (co-PI). Estimating the value of crop wild relatives preserved *in-situ*. National Center for Ecological Analysis and Synthesis meeting proposal (\$200,000). Planned resubmission

Von Wettberg EJ (PI), Vandemark (co-PI). Improving the Acid soil tolerance of chickpea USDA AFRI sabbatical proposal (\$100,000).

Von Wettberg EJ (PI), Jones (co-PI). Utilizing ants as biological control agents in orchard crops. USDA AFRI (\$300,000).

Von Wettberg EJ (PI), Vadez (co-PI). Assessing drought tolerance in wild and cultivated chickpea. Fulbright sabbatical application (\$50,000).

Penmetsa (PI), Vandemark (Co-PI) Khalova (co-PI, **von Wettberg EJ** (PI). Green chickpea for the US vegetable market. USDA AFRI 2017

von Wettberg EJ (PI), Nuzhdin (PI), Cook (co-PI). Gene regulatory networks controlling flowering time in chickpea and pigeonpea. NSF PGRP. Planned

FUNDED RESEARCH

Active awards:

USDA NIFA Graduate Fellowship **2016-2018**
Next generation genebank management for mangoes. Warschefsky EJ (PI), **von Wettberg EJ** (mentor). \$79,000

USAID Feed the Future Program Chickpea Innovation Laboratory **2013-2018**
A Reverse Introgression approach to creating climate resilient chickpea (Co-PI, PI DR Cook), \$6,000,000/\$453,000

National Science Foundation, Plant Genome Program **2013-2017**
Deducing the Genomic Footprint and Functional Impact of Chickpea Domestication on Nitrogen Fixation (co-PI, DR PI DR Cook), \$3,500,000 /\$873,000

Global Crop Diversity Trust **2015-2017**
Phenotyping for climate resilience in chickpea's wild progenitor species (Co-PI, PI D Cook, Co-PIs B Bukun, M Ghanem, A. Kahraman, 413,895, \$14,835)

Genome Canada **2015-2018**
Application of genomics to improving the lentil economy. Genome Canada, NA Bett (PI) Vandenberg (co-PI), **von Wettberg** (senior personnel, international collaborator). Recommended for funding. \$800,000, \$1,500

National Science Foundation, Integrated Organismal Systems **2015-2017**
 DISSERTATION RESEARCH: Evolution and domestication genetics of the mango. PI, supervisor for Emily Warschefsky, 18,850

National Science Foundation, Division of Environmental Bio **2014-2016**
 Ecological and Evolutionary Forces Reshaping Mutualism During Species Introductions (Senior Pers., PI SS Porter, UC Riverside), \$800,000 /\$59,000

Completed Awards:

Bok Tower Gardens Conservation Genetics Contract **2015-2016**
 Conservation genetics of Ocala Vetch, *Vicia ocalensis* (PI, \$4,000)

Everglades National Park Cooperative Agreement **2015-2016**
 Conservation Genetics of South Florida *Tephrosia*, (PI, \$12,607)

FTBG Fairchild Challenge graduate student award **2013- 2014**
 Graduate support for Emily Warschefsky, Fairchild Challenge Intern (\$25,960 via FTBG)

FTBG USDA NRCS graduate student award **2012- 2013**
 Developing a Youth Conservation Academy for Project Grow (\$30,000, \$23,460 to FIU via FTBG)

Bin Zayed Species Conservation Fund **2012**
 Conservation genetics of the genus *Garciadelia* in the Dominican Republic, \$10,000

US FWS Contract F11AC00796 **2011-2012**
 Conservation genetics of rare Florida Plants (\$55,000, \$19,250 to FIU via FTBG)

USDA HSI Consortia Grant **2012-2015**
 Fellowship and training program (Fairchild co-PD), \$800,000 N/A

USDA National Needs Fellowship **2011-2014**
 Graduate fellowships program in Agroecology (Co-PD with PD Drs. Jayachandran and Co-PDs Bhat and Onstead), \$120,000, N/A

USDA Minority Serving Institution **2011-2014**
 Undergraduate fellowships program in Agroecology (Co-PD with PD. Dr. Jayachandran and co-PD Bhat), \$180,000, N/A

NSF Plant Genome Research Program **2008-2011**
 Genomics of salinity tolerance in desert *Medicago truncatula*, \$2,700,000, \$130,000
 PI S. Nuzhdin, FIU-based lead Co-PI with D. Cook, S Strauss, M. Friesen

- NSF International Research and Education Planning Grant** **2008**
 Genomics of salinity tolerance in *Medicago truncatula* in Tunisia, \$20,000, N/A
 PI S. Nuzhdin, Co-PI with D. Cook, S Strauss, M. Friesen.
- NIH National Research Service Award** **2007-2009**
 Genomics of Nickel tolerance in *Arabidopsis lyrata*, \$141,318
- NSF Doctoral Dissertation Improvement Grant** **2004**
 Local adaptation and landscape genetics of plastic shade avoidance responses in
Impatiens capensis, \$11,450
- EPA STAR Graduate Fellowship** **2004-2007**
 Landscape genetics of escaped ornamental *Impatiens*, \$138,000
- Fulbright Fellowship** **1999-2000**
 To study agricultural ecology, Royal Vet. Ag. U., Denmark, \$23,000
- Rotary Ambassorial Scholarship** **1999-2000**
 To study agricultural ecology, Royal Vet. Ag. U., Denmark, \$23,000

Grants and Fellowships Awarded to Graduate Students

- Marques, E.** Tinker Latin America Travel Award, 1,000 **2016**
- Marques, E.** ICRISAT Travel Award, 2,500 **2016**
- Valls, R.** Botanical Society of America Young Botanist Award **2016**
- Valdes, I.** Botanical Society of America Young Botanist Award **2016**
- Warschefsky, E** Fairchild Tropical Botanical Garden Grad Res Award, \$5000 **2015**
- Warschefsky, E,** FIU Dissertation Evidence Acquisition Award, \$8,300 **2015**
- Warschefsky, E,** Great Lakes National Scholarship, \$2500 **2014**
- Warschefsky, E,** Botanical Soc. of Am. Graduate Student Research Award, \$500 **2014**
- Warschefsky, E** Am. Soc. of Plant Taxonomists Graduate Student Research, \$800 **2014**
- Warschefsky, E** Kelly Foundation Scholarship for Tropical Botany, \$300 **2013**
- Warschefsky, E** Florida Native Plant Society Graduate Research Grant, \$1500 **2012**
- Sanchez, V** USDA Fellowship, Am. Assoc. Hispanics in Higher Ed. (AAHHE) **2014**

Sanchez, V Int. Congress on Legume Genetics and Genomics NSF Travel Award	2012
Scharnagl, K Botanical Society of America Young Botanist Award	2012
Fotinos T , Florida Native Plant Society Award, \$500	2011
Fotinos T , MBRS RISE graduate fellowship	2011-2013
Soler M , MBRS RISE under graduate fellowship	2011-2013

BUSINESS ACTIVITIES

Currently working on one startup company, *Applied Symbiosis*, which will utilize ants to provide protection against herbivorous insects in fruit crops. Partners, Dr. Ian Jones (FIU PhD 2016) and Dr Amir Khoddam (FIU E&E).

PROFESSIONAL HONORS, PRIZES, FELLOWSHIPS

Fulbright Specialist Program Roster Member Pending assignment to a host nation	2016
FIU UP:LIFT Provost's Initiative Funding Learning Assistant, Undergraduate research assistant, and summer support for the development of online and hybrid versions of <i>PCB 4674 Evolution</i>	2016-2017
FIU African and African Diaspora studies travel mini-grant (Declined) For travel to Ethiopia to teach a short course	2016
FIU Faculty Senate Award for Excellence in Research and Creative Activities For excellence in research activities	2015
FIU Writing Across the Curriculum Grant For improvement of writing in undergraduate population genetics	2015
FIU STEM Transformation Institute Founding Faculty Fellow Selected to be among the initial faculty in STI, dedicated to improvement of university teaching practices	2015
USDA Kika De La Garza Fellowship (Declined) USDA training fellowship for faculty at Hispanic Serving Institutions. Declined.	2014
Kennan Family Research Grant, FIU Funds for travel to support research, \$3,000	2014

Society for the Study of Evolution, Teacher Outreach Grant **2014**
\$800 award to provide a teacher training workshop in Evolution

HHMI Teaching Scholar **2012-2013**
Improvement of Undergraduate Evolution Teaching at Florida International University. Teaching release, summer salary, overload pay, and staff support.

Broad Foundation Fellowship **2012-2013**
Conservation genetics of *Pilosocereus* cacti in the Dominican Republic, \$1000

NSF Travel funds, ICLGG VI **2012**
Partial support to present at the International Congress on Legume Genetics and Genomics, \$1200

FIU CAS Summer Faculty Support **2011**
Conservation genetics of *Chamaecrista*, \$7,000

UF Comparative Genomic Workshop Travel Award **2011, 2015**
Funds to attend an NSF-funded 3 day genomics workshop, \$1,000

NSF MICROMORPH Travel Award **2011**
Funds to visit the laboratory of Professor Susan Singer at Carleton College, \$3000

OFFICES HELD IN PROFESSIONAL SOCIETIES

Secretary and Scientific Executive Committee, International Legume Society (2016-2019)

Chairperson and program director, Genetics Section, Botanical Society of America (2013- 2015)

Vice chairperson and program director, Genetics Section, Botanical Society of America (2012- 2013)

Strategic Planning Committee Member, Botanical Society of America (2014 -)

Committee on Committees (Recruitment), Botanical Society of America (2015 -)

Executive committee of the Dade County Native Plant Society (2011-)

SOCIETY MEMBERSHIPS

International Legume Society

Botanical Society of America

Society for the Study of Evolution

Sigma Xi

Florida Native Plant Society

OTHER PROFESSIONAL ACTIITIES AND PUBLIC SERVICE

Editor: Guest Editor, *Northeastern Naturalist* (2008-2009)

Panelist: NSF IOS DDIG, January 2014; NSF PGRP July 2014; NSF PGRP August 2015

Proposal Reviewer:

NSF Population Biology and International Fellowship Panels, Ad Hoc Reviewer (7X)
BBSRC (Biotechnology and Biological Science Research Council, UK) and NERC Ad hoc review for Global Food Security Programme (2013-2014)
Estonian Science Foundation (2011)
Texas Parks and Wildlife Department (2013, 2015)
International Palm Society (2013)
Botanical Society of America, Graduate Research and Travel proposals (2012-2015)
RI Ag. Expt. Sta. Ad Hoc Reviewer (2007-2008)

Journal Reviewer (Since 2010)

Nature Communications 4x
Proceedings of the National Academy of Science 1x
Ecology Letters 2x
Evolution 2x
New Phytologist 7x
Molecular Ecology 2x
American Journal of Botany 2x
Applications in Plant Science 1x
Crop Science
Functional Plant Biology 1x
Plant Physiology 1x
Plant Journal 1x
Global Change Biology 1x
Public Library of Science One 3x
Australian Journal of Crop Research 3x
Annals of Botany 1x
Plant Science 1x
International Journal of Plant Science 3x
Heredity 2x
Euphytica 1x
Crop and Pasture Science 1x
Journal of Plant Ecology 1x
Plant Genome 1x
Biology Letters 1x
Plant Biology 1x
Weed Research 1x
Functional Ecology 1x
Turkish Journal of Forestry and Agriculture 1x
Italian Journal of International Agriculture and Development 1x
Peerage of Science 2x
Course Source 1x

Reviews for Invited chapters and books

WW Norton and Company, *Evolution*
Oxford University Press, *Evolution: An Ongoing Synthesis*.
Island Press, *Plant Reintroductions in a Changing Climate*
Cambridge University Press, *Seedling Ecology and Evolution*
University of California Press, *Human Impacts on Salt Marshes: A Global Perspective*.

Conference Judge

Sigma Xi Student Research Conference (2016) Poster Judge
Society for the Study of Evolution, Hamilton Award (2015), Paper Judge
International Food Legume Research Conference (2014). Paper Judge
Botanical Society of America (2011, 2013, 2014, 2015), Paper and Poster Judge

University and Community Service

Center Affiliations and interdisciplinary activities:

- Fairchild Tropical Botanical Garden Affiliated Faculty
- Agroecology Program Affiliated Faculty
- Southeastern Environment Research Center Affiliated Faculty
- Latin American Research Center Affiliated Faculty
- Middle Eastern Studies Affiliated Faculty
- African and African Diaspora Affiliated Faculty
- STEM Transformation Institute, Founding Faculty Fellow
- International Center for Tropical Botany Affiliated Faculty
- Biomolecular Science Institute Affiliated Faculty

Judge and Panelist

- Biology Honors Smiddy Competition (2010-2013)
- MBRS-RISE summer research award proposal reviewer (2010-2014)
- Fairchild Challenge (2010-2014)
- FIU Global Studies Teaching Blast (April 2011)
- STEM transformation Institute Proposal Reviewer (2015)

Departmental and Center Service

- International Center for Tropical Botany Search Chair, 2013-2014
- Bioinformatics Search Chair 2011-2012
- Evo-Devo Search Committee 2012-2013
- Plant Natural Product Search Committee, 2015-2016
- Marine Genetics Search Committee 2011-2012
- Urban Ecology Search Committee 2010-2011
- Honors Committee 2011-2016
- Seminar committee 2012-2017, co-chair 2014-2017
- IREAL response committee, 2013-2014

- International Center for Tropical Botany Academic Affairs committee, 2013 -

College and University Service

- Faculty Senator, 2015-2017. Served on Faculty Senate Research Committee
- ACUE Faculty Development Test Cohort, 2016
- Faculty Mentoring Program, Faculty Mentor (2015-2017)
- FIU faculty mentoring program, workshop on tenure panelist (2015)
- International Center for Tropical Botany Academic Affairs committee, 2013 -
- FIU Teach Advisory Committee (2014 -)
- *Phi Beta Kappa* vice-president and president-elect (2016-2018)
- *Sigma Xi* Chapter representative (2016-)

Community Outreach

- Teaching Evolution Professional Development Workshop Program for Teachers (April 11, 2016)
- Miami-Dade Science fair panelist, March 2016
- Clima Climate Change Art show panelist, September 2015
- Kampong Agent of Change Speaker, October 2015
- Teaching Evolution Professional Development Workshop Program for Teachers (September 27, 2014)
- Developed the NRCS Conservation Planning activity for the Fairchild Challenge (summer and autumn, 2013)
- Conservation Planning Teaching Workshop, Fairchild Challenge October 18, 2013
- Agroecology High School Student Mentor, summer 2011-2013
- Fairchild Challenge Environmental Immersion Day 2010-2013

Statewide Service

- FIU representative on the agriculture and forestry committee of the Florida Climate Initiative (FCI), to build a seven-university statewide climate institute. (2014-2016)

International Service

- International Union for the Conservation of Nature, Cactus working group, Florida Workshop Participant, July 2011.