

S. LUKE FLORY

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APPOINTMENTS

2021-present Professor, Agronomy Department, University of Florida.
2019-present Associate Chair, Agronomy Department, University of Florida.
2022-2023 Fulbright U.S. Scholar (Croatia)
2022-2023 Visiting Professor, University of Zagreb, Croatia
2016-2021 Associate Professor, Agronomy Department, University of Florida.
2011-2016 Assistant Professor, Agronomy Department, University of Florida.
2010-2011 Postdoctoral Research Fellow, Center for Research in Environmental Sciences,
Office of the Vice Provost for Research, Indiana University.
2008-2010 Postdoctoral Research Associate, Department of Biology, Indiana University, and
Big Oaks National Wildlife Refuge, Madison, Indiana.
Affiliations: UF School of Natural Resources and Environment, UF Center for Aquatic and
Invasive Plants, UF Center for Latin American Studies, UF Environmental
Horticulture, UF Tropical Conservation and Development

EDUCATION

2008 Ph.D., Ecology and Evolutionary Biology, Department of Biology, Indiana University,
Bloomington, Indiana. Advisor: Keith Clay.
2003 M.Sc., Environmental Science, Applied Ecology, School of Public and Environmental
Affairs, Indiana University, Bloomington, Indiana. Advisor: Vicky Meretsky.
2001 B.A., Biological Sciences, DePauw University, Greencastle, Indiana.
2000 Denmark International Study: Marine Biology and Ecology, Copenhagen, Denmark.

AWARDS AND HONORS

2021 – Florida Climate Institute Distinguished Faculty Fellow
2020 – Robert P. McIntosh Award (“best recent paper in vegetation ecology”), Ecological Society of
America
2020 – Undergraduate Teacher of the Year, University of Florida, College of Agricultural and Life
Sciences
2019-2022 – Research Foundation Professorship, University of Florida
2017 – International Educator of the Year, University of Florida
2017-2019 – University Term Professorship Award, University of Florida
2016 – International Achievement Award, Institute of Food and Agricultural Sciences, University of
Florida
2016 – Global Fellow, University of Florida International Center
2015 – Richard L. Jones Outstanding New Faculty Research Award – University of Florida
2015 – High Impact Research Publication Award – University of Florida/IFAS
2014 – Excellence Award for Assistant Professors – University of Florida, Office of the Provost (Top
10 Assistant Professors at UF)
2014 – Early Career Scientist Seed Funding Award – University of Florida/IFAS
2013 – High Impact Research Publication Award – University of Florida/IFAS
2007 – USDA Forest Service, Supervisor’s Award for excellence in development of partnerships

RESEARCH PUBLICATIONS (>100 TOTAL)

Flory, S.L., W. Dillon, and D. Hiatt. 2022. Interacting global change drivers suppress a foundation
tree species. *Ecology Letters*. <https://doi.org/10.1111/ele.13974>

- Lane, B., A.E. Kendig, C.M. Wojan, A. Adhikari, M.A. Jusino, N. Kortessis, et al. 2022. Fungicide mediated shifts in the foliar fungal community of an invasive grass. *Phytobiomes Journal*. <https://doi.org/10.1094/PBIOMES-03-22-0018-R>
- Tomat-Kelly, G., and **S.L. Flory**. 2022. Research gaps limit understanding of invasion fire cycles. *Biological Invasions*, pp. 1-19. <https://doi.org/10.1007/s10530-022-02951-y>
- Canavan, S., Z.T. Brym, G. Brundu, K. Dehnen-Schmutz, D. Lieurance, T. Petri, W.H. Wadlington, J.R.U. Wilson, and **S.L. Flory**. 2022. Cannabis de-domestication and invasion risk. *Biological Conservation*, 274: p. 109709. <https://doi.org/10.1016/j.biocon.2022.109709>
- Sheng, M., C. Rosche, M. Al-Gharaibeh, L.S. Bullington, R.M. Callaway, T. Clark, C.C. Cleveland, W. Duan, **S.L. Flory**, D.P. Khasa, J.N. Klironomos, M. McLeod, M. Okada, R.W. Pal, M.A. Shah, and Y. Lekberg. 2022. Acquisition and evolution of enhanced mutualism—an underappreciated mechanism for invasive success?. *The ISME Journal*, pp.1-12. <https://doi.org/10.1038/s41396-022-01293-w>
- Kendig, A.E., S. Canavan, P.J. Anderson, **S.L. Flory**, L.A. Gettys, D.R. Gordon, B.V. Iannone III, J.M. Kunzer, T. Petri, I.A. Pfingsten, and D. Lieurance. 2022. Scanning the horizon for invasive plant threats using a data-driven approach. *NeoBiota*, 74, pp.129-154. <https://doi.org/10.3897/neobiota.74.83312>
- Kortessis, N., A.E. Kendig, M. Barfield, **S.L. Flory**, M.W. Simon, and R.D. Holt. 2022. Litter, plant competition, and ecosystem dynamics: A theoretical perspective. *The American Naturalist*. *Accepted*. <https://doi.org/10.1086/721438>
- Borden, J.B., K.M. San Antonio, G. Tomat-Kelly, T. Clark, and **S.L. Flory**. 2022. Invasive grass indirectly alters seasonal patterns in seed predation. *Biology Letters*. 18(6), 20220095.
- Pappo, E., C. Wilson, and **S.L. Flory**. 2022. Enhancing climate change education through links to agriculture. *The American Biology Teacher*. 84(4), 207-212. <https://doi.org/10.1525/abt.2022.84.4.207>
- Benitez L., A.E. Kendig, A. Adhikari, K. Clay, P.F. Harmon, R. Holt, E. Goss, and **S.L. Flory**. 2022. Invasive grass litter suppresses a native grass species and promotes disease. *Ecosphere*. <https://doi.org/10.1002/ecs2.3907>
- Magee, L., K. Pandit, **S.L. Flory**, R.M. Crandall, E.N. Broadbent, G.A. Prata, W.W. Dillon, S. Bohlman, and D.J. Johnson. 2022. Life stage and neighborhood-dependent survival of longleaf pine after prescribed fire. *Forests*. 13(1), 117. <https://doi.org/10.3390/f13010117>
- Fahey, C. and **S.L. Flory**. 2021. Soil microbes alter competition between native and invasive plants. *Journal of Ecology*. <https://doi.org/10.1111/1365-2745.13807>
- Pappo, E., C.H. Wilson, and **S.L. Flory**. 2021. Hybrid coffee cultivars may enhance agroecosystem resilience to climate change. *AoB Plants*, 13(2), plab010. <https://doi.org/10.1093/aobpla/plab010>
- Kendig, A.E., V.J. Svahnström, A. Adhikari, P.F. Harmon, and **S.L. Flory**. 2021. Emerging fungal pathogen of an invasive grass: Implications for competition with native plant species. *PloS one*, 16(3), e0237894. <https://doi.org/10.1371/journal.pone.0237894>
- Tomat-Kelly, G., W.W. Dillon, and **S.L. Flory**. 2021. Invasive grass fuel loads suppress native species by increasing fire intensity and soil heating. *Journal of Applied Ecology*. <https://doi.org/10.1111/1365-2664.13881>
- Kendig, A.E., E.R. Spear, S.C. Daws, **S.L. Flory**, and E.A. Mordecai. 2021. Native perennial and non-native annual grasses shape pathogen community composition and disease severity in a California grassland. *Journal of Ecology*, 109(2), 900-912. <https://doi.org/10.1111/1365-2745.13515>
- Dillon, W.W., D. Hiatt, and **S.L. Flory**. 2021. Experimental manipulation of fuel structure to evaluate the potential ecological effects of fire. *Forest Ecology and Management*, 482, 118884. <https://doi.org/10.1016/j.foreco.2020.118884>

- Petri, T., S. Canavan, D.R. Gordon, D. Lieurance, and **S.L. Flory**. 2021. Potential effects of domestication on non-native plant invasion risk. *Plant Ecology*. 222, 549–559. <https://doi.org/10.1007/s11258-021-01130-8>
- Borden, J.B. and **S.L. Flory**. 2021. Urban evolution of invasive species. *Frontiers in Ecology and the Environment*. <https://doi.org/10.1002/fee.2295>
- Wilson, C.H., J.M. Vendramini, L.E. Sollenberger, and **S.L. Flory**. 2021. Root production in a subtropical pasture is mediated by cultivar identity and defoliation severity. *Tropical Grasslands-Forrajés Tropicales*, 9(2), 144-158. [https://doi.org/10.17138/tgft\(9\)144-158](https://doi.org/10.17138/tgft(9)144-158)
- Petri, T. B. Rehill, D. Lieurance, and **S.L. Flory**. 2021. Domestication does not alter invasion risk of a non-native legume. *Oecologia*. 196, pages 317–329. <https://doi.org/10.1007/s00442-021-04866-2>
- Cabrera, S., D. Hiatt, W.W. Dillon, T. Clark, B.F. Allan, and **S.L. Flory**. 2021. Observations of Wild Turkey Nesting in Invasive Cogongrass. *Southeastern Naturalist*, 20(1), N42. <https://doi.org/10.1656/058.020.0119>
- Estrada, J., C.H. Wilson, **S.L. Flory**. 2020. Clonal integration enhances performance of an invasive grass. *Oikos*. <http://doi.org/10.1111/oik.07016>
- Lane, B., K.B. Stricker, A. Adhikari, M.S. Ascunce, K. Clay, **S.L. Flory**, M.E. Smith, E.M. Goss, and P.F. Harmon. 2020. Large-spored *Drechslera gigantea* is a *Bipolaris* species causing disease on the invasive grass *Microstegium vimineum*. *Mycologia*.
- Goss, E.M., A.E. Kendig, A. Adhikari, B. Lane, N. Kortessis, R.D. Holt, K. Clay, P.F. Harmon, and **S.L. Flory**. 2020. Disease in invasive plant populations. *Annual Review of Phytopathology*. doi.org/10.1146/annurev-phyto-010820-012757
- Flory, S.L.** and J. Lockwood. 2020. Advancing towards a general theory of invasive species impacts: how do ecological effects vary across time and space? *Bulletin of the Ecological Society of America*. *In press* (review of ESA Symposium).
- Funk, J.L., I. Parker, V. Matzek, **S.L. Flory**, E.T. Aschehoug, C.M. DAntonio, W. Dawson, D. Thomson, and J. Valliere. 2020. Keys to enhancing the value of invasion ecology research for management. *Biological Invasions*. doi.org/10.1007/s10530-020-02267-9.
- Tarbox, B.C., M. Swisher, Z. Calle, C.H. Wilson, and **S.L. Flory**. 2020. Decline in local ecological knowledge in the Colombian Andes may constrain silvopastoral tree diversity. *Restoration Ecology*. doi.org/10.1111/rec.13153
- Fahey, C., A. Koyama, P.M. Antunes, K. Dunfield, and **S.L. Flory**. 2020. Plant communities mediate the interactive effects of invasion and drought on soil microbial communities. *The ISME Journal*. *Accepted*.
- Hiatt, D. and **S.L. Flory**. 2020. Populations of a widespread invader and co-occurring native species vary in phenotypic plasticity. *New Phytologist*. doi.org/10.1111/nph.16225
- Alba, C., Fahey, C. and **Flory, S.L.** 2019. Global change stressors alter resources and shift plant interactions from facilitation to competition over time. *Ecology*. doi.org/10.1002/ecy.2859
- Craig, M.E., Lovko, N, **Flory, S.L.** Wright, J.P., and Phillips, R. 2019. Impacts of an invasive grass on soil organic matter pools vary across a tree-mycorrhizal gradient. *Biogeochemistry*. doi.org/10.1007/s10533-019-00577-2
- Hiatt, D, Serbesoff-King, K, Lieurance, D, Gordon, DR, **Flory, S.L.** 2019. Allocation of invasive plant management expenditures for conservation: Lessons from Florida, USA. *Conservation Science and Practice*. doi.org/10.1111/csp2.51
- Fahey, C., C. Angelini, and **S.L. Flory**. 2018. Grass invasion and drought interact to alter the diversity and structure of native plant communities. *Ecology*. 99:2692-2702.
- Liu, T., A. Abd-Elrahman, A. Zare, B.A. Dewitt, **S.L. Flory**, S.E. Smith. 2018. A fully learnable context-driven object-based model for mapping land cover using multi-view data from unmanned aircraft systems. *Remote Sensing of Environment*. 216:328-344.

- Tarbox, B.C., S.K. Robinson, B. Loiselle, **S.L. Flory**. 2018. Foraging ecology and flocking behavior of insectivorous forest birds inform management of silvopastures for conservation. *The Condor: Ornithological Applications*. 120(4):787-802.
- Lee, M., **S.L. Flory**, R. Phillips, and J. Wright. 2018. Site conditions are more important than abundance for explaining plant invasion impacts on soil nitrogen cycling. *Ecosphere*. 9(10):e02454.
- Dillon, W.W., D. Lieurance, D.T. Hiatt, K. Clay, **S.L. Flory**. 2018. Native and invasive woody species differentially respond to forest edges and forest successional age. *Forests*. 9(7):381.
- Guo, Y., S. Graves, **S.L. Flory**, S. Bohlman. 2018. Hyperspectral measurement of seasonal variation in the coverage and impacts of an invasive grass in an experimental setting. *Remote Sensing*. 10(5):784.
- Lieurance, D., A. Cooper, A.L. Young, D.R. Gordon, **S.L. Flory**. 2018. Running bamboo species pose a greater invasion risk than clumping bamboo species in the continental United States. *Journal for Nature Conservation*. 43:39-45.
- NeSmith, J.E., C. Alba, and **S.L. Flory**. 2018. Experimental drought and plant invasion additively suppress primary pine species of southeastern US forests. *Forest Ecology and Management*. 411:158-165.
- Wilson, C., M.S. Strickland, J.A. Hutchings, T.S. Bianchi, and **S.L. Flory**. 2018. Grazing enhances belowground carbon allocation, microbial biomass, and soil carbon in a subtropical grassland. *Global Change Biology*. 24(7):2997-3009.
- Rivas-Torres, G., **S.L. Flory**, and B. Loiselle. 2018. Plant community composition and structural characteristics of an invaded forest in the Galápagos. *Biodiversity and Conservation*. 27(2): 329-344.
- Flory, S.L.**, C. Alba, K. Clay, R. Holt, and E. Goss. 2018. Emerging pathogens can suppress invaders and promote native species recovery. *Biological Invasions*. 20(1): 5-8.
- Flory, S.L.**, C. Alba, K. Clay, R. Holt, and E. Goss. 2018. Long-term studies are needed to reveal the effects of pathogen accumulation on invaded plant communities. *Biological Invasions*. 20(1): 11-12.
- D'Antonio, C. and **S.L. Flory**. 2017. Long-term dynamics and impacts of plant invasions. *Journal of Ecology*. 105(6):1459–1461.
- Flory, S.L.**, J. Bauer, R. Phillips, and K. Clay. 2017. Effects of a non-native grass invasion decline over time. *Journal of Ecology*. 10(6)5:1475–1484.
- Wilson, C.H., T.T. Caughlin, S.W. Rifai, E.H. Boughton, M.C. Mack, and **S.L. Flory**. 2017. Multi-decadal time series of remotely sensed vegetation improves prediction of soil carbon in a subtropical grassland. *Ecological Applications*. 27(5):1646–1656.
- Gordon, D.R., D. Lieurance, D. and **S.L. Flory**. 2017. Predicted versus actual invasiveness of climbing vines in Florida. *Biological Invasions*. 19(8):2375-2384.
- Alba, C., J.E. NeSmith, C. Fahey, C. Angelini, and **S.L. Flory**. 2017. Methods to test the interactive effects of drought and plant invasion on ecosystem structure and function using complementary common garden and field experiments. *Ecology and Evolution*. 7:1442-1452.
- Estrada, J., C. Wilson, D. Hiatt, and **S.L. Flory**. 2017. Different factors drive emergence and persistence in an invasive grass. *International Journal of Plant Sciences*. 178(5):406-410.
- Yue, M.F., **S.L. Flory**, L. Feng, W.H. Ye, H. Shen, X.S. Tian, and Z.M. Wang. 2017. Effects of extreme temperatures on the growth and photosynthesis of invasive *Bidens alba* and its native congener *B. biternata*. *Nordic Journal of Botany*. 35(3):377–384.
- Stricker, K., P. Harmon, E. Goss, K. Clay, and **S.L. Flory**. 2016. Emergence and accumulation of novel pathogens suppress an invasive species. *Ecology Letters*. 19:469-477.
- Estrada, J., C. Wilson, J. NeSmith, and **S.L. Flory**. 2016. Propagule quality mediates invasive plant establishment. *Biological Invasions*. *Accepted*.
- Gordon, D., **S.L. Flory**, D. Lieurance, P.E. Hulme, C. Buddenhagen, B. Caton, P.D. Champion, T.

- M. Culley, C. Daehler, F. Essl, J. E. Hill, R. P. Keller, L. Kohl, A. L. Koop, S. Kumschick, D. M. Lodge, R. N. Mack, L. A. Meyerson, G. R. Pallipparambil, F. D. Panetta, R. Porter, P. Pyšek, L. D. Quinn, D. M. Richardson, D. Simberloff, and M. Vilà. 2016. Weed risk assessments are an effective component of invasion risk management. *Invasive Plant Science and Management*. 9(1):81-83 (rebuttal to Smith et al. 2015)
- Shannon-Firestone, S. H.L. Reynolds, R.P. Phillips, **S.L. Flory**, and A. Yannerell. 2015. The role of ammonium oxidizing communities in mediating effects of an invasive plant on soil nitrification. *Soil Biology and Biochemistry*. 90:266-274.
- Flory, S.L.** and C. D'Antonio. 2015. Taking the long view on the ecological effects of plant invasions. *American Journal of Botany*. 102:817-818.
- Flory, S.L.**, K. Clay, S.M. Emery, J. Robb, and B. Winters. 2015. Fire and non-native grass invasion interact to suppress tree regeneration in eastern deciduous forest. *Journal of Applied Ecology*.
- Wilson, C., T.T. Caughlin, D.J. Civitello, **S.L. Flory**. 2015. Combining mesocosm and field experiments to predict invasive plant performance: A hierarchical Bayesian approach. *Ecology*. 96:1084–1092.
- Stricker, K.B., D.H. Hagan, and **S.L. Flory**. 2015. Improving methods to evaluate the impacts of plant invasions: Lessons from 40 years of research. *AoB PLANTS*. doi: 10.1093/aobpla/plv028
- Estrada, J. and **S.L. Flory**. 2015. Cogongrass (*Imperata cylindrica*) invasions in the US: Mechanisms, impacts, and threats to biodiversity. *Global Ecology and Conservation*. 3:1-10.
- Nickerson, K.* , and **S.L. Flory**. 2015. Competitive and allelopathic effects of the invasive shrub *Schinus terebinthifolius* (Brazilian peppertree). *Biological Invasions*. 17:555-564. *undergraduate advisee, received 2013 UF Honors Thesis Award
- Johnson, D.J., **S.L. Flory**, A. Shelton, C. Huebner, and K. Clay. 2014. Interactive effects of a non-native invasive grass (*Microstegium vimineum*) and herbivore exclusion on experimental tree regeneration under differing forest management. *Journal of Applied Ecology*. 52:210-219.
- Flory, S.L.** and J. Bauer. 2014. Experimental evidence for indirect facilitation among invasive plants. *Journal of Ecology*. 102:12-18.
- Quinn, L., D. Gordon, A. Glaser, D. Lieurance, and **S.L. Flory**. 2014. Bioenergy feedstocks at low risk for invasion in the USA: a “White List” approach. *BioEnergy Research*. DOI: 10.1007/s12155-014-9503-z
- Nickerson, K. and **S.L. Flory**. 2014. Competitive and allelopathic effects of the invasive shrub *Schinus terebinthifolius* (Brazilian peppertree). *Biological Invasions*. 10.1007/s10530-014-0748-4*undergraduate advisee, received 2013 UF Honors Thesis Award
- Yolanda López, Y., J. Seib, K. Woodard, K. Chamusco, L. Sollenberger, M. Gallo, **S.L. Flory**, C. Chase. 2014. Genetic diversity of biofuel and naturalized napiergrass (*Pennisetum purpureum*). *Invasive Plant Science and Management*. 7(2):229-236
- Emery, S.M., **S.L. Flory**, K. Clay, J.R. Robb, and B. Winters. 2013. Demographic responses of the invasive annual grass *Microstegium vimineum* to prescribed fires and herbicide. *Forest Ecology and Management*. 308:207-213.
- Flory, S.L.** and K. Clay. 2013. Pathogen accumulation and long-term dynamics of plant invasions. *Journal of Ecology*. 101:607-613.
- Crous, P.W., **S.L. Flory**, et al. 2013. Fungal Plant description sheets: *Bipolaris drechsleri*. *Persoonia* 31:188-296.
- Flory, S.L.**, K.A. Lorentz, D. Gordon, and L. Sollenberger. Experimental approaches for evaluating the invasion risk of biofuel crops. *Environmental Research Letters*. 7:045904.
- Crous, P.W., **S.L. Flory**, et al. 2012. Fungal Plant description sheets: *Bipolaris microstegii*. *Persoonia* 29:146-201.
- Novy, A., **S.L. Flory**, and J.M. Hartman. Evidence for rapid evolution of phenology in an invasive grass. *Journal of Evolutionary Biology*. 2:443-450.

- Gordon, D., **S.L. Flory**, A.L. Cooper, and S.K. Morris. Assessing the invasion risk of *Eucalyptus* in the United States using the Australian weed risk assessment. *International Journal of Forestry Research*. 2012:203768
- Wilson, S.B. and **S.L. Flory**. 2012. FloraGator: A novel, interactive, and online multiple-entry key for identifying plant families. *HortTechnology*. 22:410-41.
- Lee, M., **S.L. Flory**, and R. Phillips. 2012. Positive feedbacks to growth of an invasive grass through alteration of nitrogen cycling. *Oecologia*. 170:457-65.
- Shannon, S., **S.L. Flory**, and H. Reynolds. 2012. Competitive context alters plant-soil feedback in an experimental woodland community. *Oecologia*. 169:235-243.
- Novy, A., **S. L. Flory**, J.A. Honig, S. Bonos, and J.M. Hartman. 2012. Characterization of polymorphic microsatellites for the invasive grass *Microstegium vimineum* (Poaceae). *American Journal of Botany*. 99:e56 – e58.
- Kleczewski, N., **S.L. Flory**, and K. Clay. 2012. Variation in pathogenicity and host range of *Bipolaris* sp. causing leaf blight disease on the invasive grass *Microstegium vimineum*. *Weed Science*. 60:486-493
- Flory, S.L.**, F. Long, and K. Clay. 2011. Invasive *Microstegium* populations consistently outperform native range populations across diverse environments. *Ecology* 92:2248-2257.
- Flory, S.L.**, N. Kleczewski, and K. Clay. 2011. Ecological consequences of pathogen accumulation on an invasive grass. *Ecosphere*. 2(10).
- Zeng, S.L, T.T. Zhang, Y. Gao, B. Li, C.M. Fang, **S.L. Flory**, and B. Zhao. 2011. Road effects on vegetation composition in a saline environment. *Journal of Plant Ecology*. 5(2): 206-218.
- Emery, S.M, J. Uwimbabazi, and **S.L. Flory**. 2011. Fire intensity effects on seed germination of native and invasive Eastern deciduous forest understory plants. *Forest Ecology and Management*. 261:1401-1408.
- Flory, S.L.**, F. Long, and K. Clay. 2011. Greater performance of introduced vs. native range populations of *Microstegium vimineum* across variable light environments. *Basic and Applied Ecology*. 12:350-359.
- Craig, S., S. Kannadan, **S.L. Flory**, E.K. Seifert, K.D. Whitney, and J.A. Rudgers. 2011. Potential for endophyte symbiosis to increase resistance of the native grass *Poa alsodes* to invasion by the non-native grass *Microstegium vimineum*. *Symbiosis* 53:17-28.
- Mattingly, W.B. and **S.L. Flory**. 2011. Host plant architecture affects oviposition site selection of periodical cicadas. *Oikos* 120:1083-1091.
- Bauer, J. and **Flory, S.L.** 2011. Suppression of the woodland herb *Senna hebecarpa* by the invasive grass *Microstegium vimineum*. *American Midland Naturalist*. 165:105-115.
- Flory, S.L.** and K. Clay. 2010. Non-native grass invasion suppresses forest succession. *Oecologia* 164:1029-1038.
- Simao, M.C., **S.L. Flory**, and J.A. Rudgers. 2010. Experimental plant invasion reduces arthropod abundance and richness across multiple trophic levels. *Oikos* 119:1553-1562.
- Kleczewski, N. and **S.L. Flory**. 2010. Leaf blight disease on the invasive grass *Microstegium vimineum* (Japanese stiltgrass) caused by a *Bipolaris* sp. *Plant Disease* 94:807-811.
- Flory, S.L.** and K. Clay. 2010. Non-native grass invasion alters native plant composition in experimental communities. *Biological Invasions* 12:1285-1294.
- Droste, T.*, **S.L. Flory**, and K. Clay. 2010. Variation for phenotypic plasticity among populations of an invasive exotic grass. *Plant Ecology*. 207:297-306. *undergraduate advisee, received 2008 Honors Thesis Award
- Flory, S.L.** 2010. Management of *Microstegium vimineum* invasions and recovery of resident plant communities. *Restoration Ecology*. 18:103-112.
- Flory, S.L.** and J. Lewis. 2009. Non-chemical methods for managing Japanese stiltgrass (*Microstegium vimineum*). *Invasive Plant Science and Management*. 2:301-309.
- Flory, S.L.** and K. Clay. 2009. Effects of roads and forest successional age on experimental plant invasions. *Biological Conservation*. 142:2531-2537.

- Flory, S.L.** and K. Clay. 2009. Invasive plant removal method determines native plant community responses. *Journal of Applied Ecology*. 4:434-442.
- Flory, S.L.** and W.B. Mattingly. 2008. Response of host plants to periodical cicada oviposition damage. *Oecologia* 156:649-656.
- Civitello, D.J., **S.L. Flory**, and K. Clay. 2008. Exotic grass invasion reduces survival of *Amblyomma americanum* and *Dermacentor variabilis* ticks. *Journal of Medical Entomology*. 45:867-872.
- Clay, K., K. Reinhart, J. A. Rudgers, T. Tintjer, J. L. Koslow, **S. L. Flory**. 2008. Red queen communities. Pp. 145-178, In *Ecology of Infectious Diseases: Interactions between diseases and ecosystems*. (V. Eviner, F. Keesing and R. Ostfeld, Eds.). Princeton University Press, Princeton.
- Flory, S.L.**, J.A. Rudgers, and K. Clay. 2007. Experimental light treatments affect invasion success and the impact of *Microstegium vimineum* on the resident community. *Natural Areas Journal* 27:124-132.
- Cienciolo, J., **S.L. Flory**, and J. Atwell. 2006. Evaluating the use of Inquiry-based activities: Does student and teacher behavior really change? *Journal of College Science Teaching* 36:50-55.
- Flory, S.L.** and K. Clay. 2006. Invasive shrub distribution varies with distance to roads and stand age in eastern deciduous forests in Indiana, USA. *Plant Ecology* 184:131-141.
- Flory, S.L.**, E.L. Ingram, B.J. Heidinger, and T. Tintjer. 2005. Hands-On in the Non-Laboratory Classroom: Reconstructing Plant Phylogenies Using Morphological Characters. *The American Biology Teacher* 67:542-549.

EXTENSION, OUTREACH, AND TECHNICAL PUBLICATIONS

- Flory, S.L.** 2018. Information on measures and related costs in relation to species considered for inclusion on the Union list: *Lespedeza cuneata*. Technical note prepared by IUCN for the European Commission.
- Flory, S. L.** 2018. Information on measures and related costs in relation to species considered for inclusion on the Union list: *Triadica sebifera*. Technical note prepared by IUCN for the European Commission.
- Flory, S.L.** 2017. Information on measures and related costs in relation to species included on the Union list: *Microstegium vimineum*. Technical note prepared by IUCN for the European Commission.
- Lieurance, D.M., **S.L. Flory**, D.R. Gordon. 2016. The UF/IFAS Assessment of Nonnative Plants in Florida's Natural Areas: History, Purpose, and Use. Publication #SS-AGR-371. <http://edis.ifas.ufl.edu/ag376>
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- Wilson, S.B. and **S.L. Flory**. 2012. FloraGator: A novel, interactive, and online multiple-entry key for identifying plant families. *HortTechnology*. 22:410-41.
- B. A. Sellers, J. A. Ferrell, G. E. MacDonald, K. A. Langeland, and **S. L. Flory**. 2012. Cogongrass (*Imperata cylindrica*) biology, ecology, and management in Florida grazing lands. University of Florida EDIS WG202.
- Kleczewski, N., **S.L. Flory**, and G. Nice. 2011. An introduction to *Microstegium vimineum* Japanese stiltgrass/Nepalese browntop) an emerging invasive grass in the eastern United States. Purdue University Factsheet- WS-49-W.

REPRESENTATIVE RESEARCH GRANTS

SINCE 2014: >\$7 MILLION TOTAL EXTERNAL FUNDING (MY ALLOCATION: \$2.4 MILLION); \$587K IN INTERNAL FUNDING

\$2,500,000 – (Co-PI) EEID program: USDA/NSF/NIH, “Invasive species as conduits for pathogen spillover between natural and agricultural systems”

- \$348,416 – (Co-PI) Army Corps of Engineers, “Using Long-Term Datasets to Understand Impacts of Aquatic Plant Management in Florida”
- \$239,804 – (PI) CESU National Park Service Program, “CESU- Hurricane effects on the distribution and management of plant invasions in coastal habitats”
- \$1,624,500 – (Co-PI) EEID program: USDA/NSF/NIH, “Multi-host, multi-pathogen interactions in invaded communities: The consequences of emerging infectious disease of a rapidly expanding grass”
- \$116,600 – (PI) Florida Fish and Wildlife Conservation Commission, “IFAS Assessment of Non-native Plants in Florida’s Natural Areas”
- \$2,450,000 – (Co-PI) Strategic Environmental Research and Development Program, Department of Defense, “Climate change impacts on fire regimes, plant invasions, and tick-borne diseases”
- \$1,317,225 – (Co-PI) GreenRoads of Florida, “Industrial Hemp Pilot Project: Variety Selection, Cropping System Development, and Invasion Risk Assessment”
- \$33,144 – (PI) Florida Forest Service, “Potential interactive effects of *Imperata cylindrica* (cogongrass) invasion and soil moisture availability on pine establishment and performance”
- \$69,399 – (PI) Florida Fish and Wildlife Conservation Commission, “Economic costs of invasive plant management in Florida’s natural areas”
- \$680,000 – (Co-PI) National Science Foundation, “Testing a conceptually-driven framework to predict variability in the ecosystem consequences of plant invasion across heterogeneous landscapes”
- \$156,244 – (PI) National Science Foundation, “Pathogen accumulation and its consequences for invasive plants”
- \$60,000 – (PI) FDACS Division of Plant Industry, “IFAS Assessment of Non-native Plants in Florida’s Natural Areas”
- \$132,608 – (PI) Florida Fish and Wildlife Conservation Commission, “IFAS Assessment of Non-native Plants in Florida’s Natural Areas”
- \$49,969 – (PI) UF/IFAS McIntire-Stennis, “Interactive effects of plant invasion and soil moisture availability on pine forest diversity and ecosystem functions”
- \$47,807 – (PI) Dean for Research, Early Career Scientist Seed Funding Award, “Interactive effects of *Imperata cylindrica* (cogongrass) invasion and soil moisture availability on longleaf”
- \$4,998 – (Co-PI) College of Agricultural and Life Sciences, University of Florida “Development of a Web Application for Students to Readily Identify and Learn Plant Families”
- \$239,866 – (PI) Joint Fire Science Program, “Fire and the invasive annual grass *Microtegium vimineum* in eastern deciduous forests,” 2008-2011. Collaborators: Dr. Sarah Emery, University of Louisville; Dr. Joseph Robb, Big Oaks National Wildlife Refuge; and Dr. Keith Clay, Indiana University.

TEACHING

- Biological Invaders PCB2441 (every fall semester)
- Invasive Plant Ecology PLS6626 (spring, every other year)
- UF in Cuba: Tropical Marine and Island Ecology (summer 2016-2020)

MENTORING: POSTDOCTORAL AND GRADUATE STUDENTS

Individual	Role	Current Position
Amy Kendig	Postdoc	Current postdoc, University of Florida
Susan Canavan	Postdoc	Current postdoc, University of Florida
Whalen Dillon	Postdoc	Quantitative Ecologist, Alaka'ina Foundation
Christina Alba	Postdoc	Assistant Research Scientist, Denver Botanic Gardens
Kerry Bohl Stricker	Postdoc	Academic Editor, Research Square and McGraw Hill
Gio Tomat-Kelly	Ph.D. student (chair)	Current Ph.D. student, University of Florida
Jesse Borden	Ph.D. student (chair)	Current Ph.D. student, University of Florida
Julia Maki	Ph.D. student (chair)	Current Ph.D. student, University of Florida
James Estrada	Ph.D. student (chair)	Lecturer and Academic Director, Center for Stress Resilient Agriculture, University of Florida

Chris Wilson	Ph.D. student (chair)	Assistant Professor, University of Florida
Bryan Tarbox	Ph.D. student (chair)	Postdoctoral Research Associate, Texas State University
Catherine Fahey	Ph.D. student (chair)	Postdoctoral Research Associate, Algoma University
Emily Pappo	M.S. student (chair)	Ph.D. student, University of Florida
Tabitha Petri	M.S. student (chair)	Current M.Sc. student, University of Florida
Milton Diaz	Ph.D. student (committee)	Current Ph.D. student, University of Florida
Yuxi Guo	M.S. student (committee)	Current Ph.D. student, University of Florida
Dinia Cartry	M.S. student (committee)	Current M.S. student, University of Rennes 1
Drew Hiatt	M.S. student (chair)	Current field crew leader, University of Florida
Julienne NeSmith	M.S. student (chair)	Biological Scientist, University of Georgia
Tao Liu	Ph.D. student (committee)	Current Ph.D. student, University of Florida
Fabiane Ribeiro	Ph.D. student (committee)	Current postdoc
Christine Angelini	Ph.D. student (committee)	Assistant Professor, University of Florida
Jason Seitz	M.S. student (committee)	Restoration ecologist
Gonzalo Rivas Torres	Ph.D. student (co-chair)	Professor, Universidad San Francisco de Quito-USFQ Colegio de Ciencias Biológicas y Ambientales-COCIBA & Galapagos Institute for the Arts and Sciences-GAIAS
Verity Salmon	Ph.D. student (committee)	Postdoc, Oak Ridge National Laboratory

MENTORING: POSTDOC AND GRADUATE STUDENT AWARDS

- Emily Pappo (Ph.D. student) – Future Leaders Fellow, Association for International Agriculture and Rural Development
- Emily Pappo (M.Sc. student) – UF/IFAS Center for Stress Resilient Agriculture (\$560)
- Emily Pappo (M.Sc. student) – UF/IFAS Conference Travel Grant (\$500)
- Bryan Tarbox (Ph.D. student) - Graduate School Doctoral Dissertation Award 2017 (\$9000)
- Emma Byerly (undergraduate student) – UF/IFAS University Scholars Award 2016 (\$2250)
- Bryan Tarbox (Ph.D. student) - William C. and Bertha M. Cornett Fellowship, College of Agriculture and Life Sciences (CALs) 2016 (\$2000).
- James Estrada (Ph.D. student) – Paul Robin Harris Travel Award, University of Florida Agronomy Department 2016 (\$500).
- James Estrada (Ph.D. student) – Graduate Student Counsel Travel Award, University of Florida 2016 (\$350).
- James Estrada (Ph.D. student) – 1st Place, Best Graduate Student Oral Presentation, Florida Exotic Pest Plant Council Annual Conference 2016 (\$200).
- Jules NeSmith (M.Sc. student) – 2nd Place, Best Graduate Student Poster Presentation, Florida Exotic Pest Plant Council Annual Conference 2016 (\$100).
- James Estrada (Ph.D. student) - C.E. Dean Award of Excellence for Outstanding Graduate Student in Agronomy 2015.
- Drew Hiatt (M.Sc. student) – 1st Place, Best Graduate Student Presentation, Florida Exotic Pest Plant Council Annual Conference 2015 (\$200).
- James Estrada (Ph.D. student) – Overall winner, Graduate Student Research Symposium, Agronomy Department, UF/IFAS 2014 (\$150).
- Cathy Fahey, Julia Maki, Chris Wilson, Bryan Tarbox, and James Estrada (Ph.D. students) – all awarded University Graduate Fellowship Awards through the Agronomy Department or School of Natural Resources and the Environment, University of Florida (~\$24,000/yr) to conduct their Ph.D. research.
- Katherine Nickerson (undergraduate student) – UF/IFAS University Scholars Award 2014 (\$2250)

MENTORING: GRADUATE STUDENT RESEARCH GRANTS AND FUNDING

- Emily Pappo. 2018. P.E.O International (\$1,800)
- Emily Pappo. 2017. UF/IFAS Center for Stress Resilient Agriculture (\$5,000)
- Bryan Tarbox. 2016. Graduate Student Council Travel Grant (\$350).
- Bryan Tarbox. 2016. James Davidson Graduate Travel Scholarship, CALS (\$300).
- Chris Wilson. 2015. National Science Foundation Doctoral Dissertation Improvement Grant (\$19,017).
- Drew Hiatt. 2014. Julia Morton Invasive Plant Research Grant. Florida Exotic Pest Plant Council (\$2,000).
- Chris Wilson. 2015. Debeux J, Wilson C, Silveira M, Prevatt C, DeLorenzo N, Sollenberger L, Adams D, Mackowiak C. United States Department of Agriculture, National Institute of Food and Agriculture Grant (\$488,905 total; \$32,000 CH Wilson share).

- James Estrada. 2013-2017. Graduate Student Mini-grant. Florida Fish and Wildlife Conservation Commission (\$27,000).
- Bryan Tarbox. 2013. UF Tropical Conservation and Development Field Research Grant (Tinker Grant) (\$2,000).
- Bryan Tarbox. 2013. Exploration Fund Grant. Explorer's Club, New York, New York (\$2,200).

SELECTED SEMINARS AND PRESENTATIONS

- Ecology and Management of Alien Plant Invasions (EMAPi, Prague, Czech Republic)
- Duke University (invited)
- Archbold Biological Station (invited)
- Florida Exotic Pest Plant Council (invited plenary speaker)
- Huazhong Agricultural University, Wuhan, China (invited)
- 3rd International Conference on Biological Invasion and Global Change, Kaifeng, China (invited)
- European and Mediterranean Plant Protection Organization, Expert Working Group, Paris, France (invited)
- Neobiota, Dublin, Ireland
- The Stewardship Network (webcast) (invited)
- International Ecology and Management of Alien Plant Invasions. Lisbon, Portugal
- The Field Museum, Chicago, Illinois (invited)
- 100th meeting of the Ecological Society of America Annual Meeting. Baltimore, MD (invited)
- International Ecology and Management of Alien Plant Invasions. Waikoloa, Hawaii (invited)
- Ecological Society of America Annual Meeting. Sacramento, CA
- Clemson University – Ecology and Natural Resources (invited)
- University of Florida – School of Natural Resources and the Environment, Gainesville, Florida (invited)
- University of South Florida – Department of Integrative Biology, Tampa, Florida (invited)
- Auburn University – School of Forestry and Wildlife Sciences, Auburn, Alabama (invited)
- School of Natural Resources and Environment, University of Florida (invited)
- Everglades National Park, Early Detection and Rapid Response Working Group (invited)
- Ecological Society of America Annual Meeting, Symposium on multiple invaders (invited)
- Department of Biology, DePauw University, Greencastle, Indiana (invited)
- Fudan University – Institute of Biodiversity Science, Shanghai, China (invited)
- Chinese Academy of Science – Wuhan Botanic Garden (invited)
- Chinese Academy of Agricultural Science – Institute of Plant Protection, Beijing (invited)
- USDA Interagency Research Forum on Invasive Species (invited)
- Eastern Kentucky University – Department of Biology (invited)
- Georgia Southern University – Department of Biology (invited)
- University of Louisville – Department of Biology (invited)
- Rutgers University – School of Environmental and Biological Sciences (invited)
- Covering the Ohio River Valley – A convergence of media and scientists (invited)
- Southern Illinois University – Stiltgrass Summit (invited)
- The Stewardship Network (webcast) (invited)

REPRESENTATIVE PROFESSIONAL ACTIVITIES AND SERVICE

- **Ad hoc peer review:** *National Science Foundation, Division of Environmental Biology, Ecosystem Science, 2021*
- **Faculty Advisory Council,** *School of Natural Resources and Environment (2021 – present)*
- **Associate Editor,** *Journal of Applied Ecology (2015 – 2020)*
- **Editorial Advisory Board Member,** *Journal of Applied Ecology (2015 – 2020)*
- **Associate Editor,** *Plant Ecology (2015 – 2020)*

- **Scientific Advisory Council:** *Public Issues Education Center, University of Florida* (2015 – present)
- **External consultant:** *Global Species Programme, IUCN (International Union for Conservation of Nature)*
- **Invasive Plant Working Group:** *Institute of Food and Agricultural Sciences, University of Florida* (2011-present)
- **External reviewer of Distinguished Professor:** *National Research Foundation of South Africa* (2018)
- **Honors Coordinator,** *University of Florida, College of Agriculture and Life Science, University of Florida* (2018-present)
- **External reviewer:** *The National Fund for Scientific and Technological Research (FONDECYT), National Commission for Scientific and Technological Development (CONICYT) Chile.* (2017)
- **External reviewer:** *OMAFRA - Research Program, Office of Research, Strategic Partnerships, University of Guelph* (2017)
- **Chair:** *Invasion Ecology Section, Ecological Society of America*, 2017
- **Vice-chair:** *Invasion Ecology Section, Ecological Society of America*, 2017
- **External reviewer:** *Deutsche Forschungsgemeinschaft (DFG; German Research Foundation)* (2016)
- **Co-founder:** *Invasion Ecology Section, Ecological Society of America*, 2015
- **Expert Working Group member:** *European and Mediterranean Plant Protection Organization (EPPO), Paris, France*, 2017
- **External reviewer:** *Natural Sciences and Engineering Research Council of Canada (NSERC), - Biological Systems and Functions, Research Grants and Scholarships*, 2015
- **Expert Working Group member:** *European and Mediterranean Plant Protection Organization (EPPO), Paris, France*, 2014
- **Peer review of nominee:** *Canada Research Chairs Program*, 2014
- **Panel member:** *National Science Foundation, Division of Environmental Biology, Doctoral Dissertation Improvement Grants*, 2015
- **Panel member:** *National Science Foundation, Division of Environmental Biology*, 2014
- **Federal Grant Review Panel:** *Joint Fire Science Program*, 2010, 2011.

External reviewer for journals: have reviewed more than 100 articles for 39 different journals such as *American Journal of Botany, Applied Vegetation Science, Biological Conservation, Biological Invasions, Bioscience, Biotropica, Diversity and Distributions, Ecology Letters, Ecosphere, Environmental Management, Functional Ecology, Journal of Applied Ecology, Journal of Ecology, Journal of the Torrey Botanical Society, Natural Areas Journal, New Phytologist, Oikos, Plant and Soil, PLoS ONE, Restoration Ecology, Soil Biology and Biochemistry, Southeastern Naturalist.*