

KARLA MICHELE ADDESSO
ASSOCIATE PROFESSOR

Tennessee State University
Department of Agriculture and Environmental Science
Otis L. Floyd Nursery Research Center
McMinnville, TN 37110
Work: 931-815-5155, Cell: 732-735-4153
kaddesso@tnstate.edu

EDUCATION

Ph.D. in Entomology, December 2007, University of Florida, Gainesville, Florida

B.S. in Biology, December 2002, The College of New Jersey, Ewing, New Jersey

PROFESSIONAL APPOINTMENTS

- 2018 - present** **Associate Professor.** Tennessee State University. Otis L. Floyd Nursery Research Center, McMinnville, TN. (Tenure Track as of August, 2014) (90% Research/10% Service)
- 2012-2018** **Assistant Professor.** Tennessee State University. Otis L. Floyd Nursery Research Center, McMinnville, TN.
- 2010 - 2012** **Postdoctoral Research Entomologist.** United States Department of Agriculture, Agriculture Research Service, Center for Medical, Agricultural and Veterinary Entomology, Chemistry Unit, Gainesville, FL.
- 2008 - 2010** **Research Associate.** University of Florida, Entomology and Nematology, Gainesville, FL.
- 2003 - 2007** **York Presidential Fellow.** University of Florida, Entomology and Nematology Department, Gainesville, FL.

RESEARCH

Refereed Publications

**indicates a collaboration with a student*

Addesso, K. M., Paul A O'Neal. 2021. Application of Pyriproxyfen to Overwintering Females of *Lopholeucaspis japonica* (Hemiptera: Diaspididae) Reduces First-Generation Crawler Activity, Arthropod Management Tests. 46(1). tsab134, <https://doi.org/10.1093/amt/tsab134>

Addesso, K. M., Hans T. Alborn, Robert R. Bruton and Heather J. McAuslane. A multi-component marking pheromone produced by the pepper weevil, *Anthonomus eugenii* (Coleoptera: Curculionidae). Chemoecology. <https://doi.org/10.1007/s00049-021-00347-3>

Valles, S. M., Jason B. Oliver, **Karla M. Addesso**, Omaththage P. Perera. 2021. Unique *Solenopsis* venom protein 2 alleles in *Solenopsis invicta* x *Solenopsis richteri* hybrid fire ants. Toxicon. <https://doi.org/10.1016/j.toxcx.2021.100065>

Dawadi, S., F. Baysal-Gurel, **K. M. Addesso**, P. Liyanapathirana, and T. Simmons. 2021. Fire Ant Venom Alkaloids: Possible Control Measure for Soilborne and Foliar Plant

- Pathogens. Pathogens. 10(6):659. <https://doi.org/10.3390/pathogens10060659>
- Brown, M. S., **Karla M. Addesso**, Fulya Baysal-Gurel, Nadeer N. Youssef, and Jason B. Oliver. 2020. Permethrin Residual Activity Against Ambrosia Beetle (Coleoptera: Curculionidae: Scolytinae) Attacks Following Field Aging and Simulated Rainfall Weathering. *Journal of Economic Entomology*, 113(5): 2418–2426. doi: 10.1093/jee/toaa186
- Pandey, M., **K. M. Addesso**, L. W. Alexander, N. N. Youssef, J. B. Oliver. 2021. Relationship of Imported Fire Ant (Hymenoptera: Formicidae) Integument Coloration to Cuticular Hydrocarbon and Venom Alkaloid Profiles, *Environmental Entomology*, nvaal184, <https://doi.org/10.1093/ee/nvaa184ey>
- Ranger, C. M., Michael E. Reding, **Karla M. Addesso**, Matthew Ginzel and Davide Rassati. 2021. Semiochemical-mediated host selection by *Xylosandrus* spp. ambrosia beetles (Coleoptera: Curculionidae) attacking horticultural tree crops: a review of basic and applied science. *The Canadian Entomologist*. doi:10.4039/tce.2020.51
- Ranger, C. M., Marek Dzurenko, Jenny Barnett, Ruchika Geedi, Louela Castrillo, Matthew Ethington, Matthew Ginzel, **Karla M. Addesso** and Michael E. Reding. 2021. Electrophysiological and Behavioral Responses of an Ambrosia Beetle to Volatiles of its Nutritional Fungal Symbiont. *Journal of Chemical Ecology*. <https://doi.org/10.1007/s10886-021-01263-0>
- Addesso, K. M.**, Jason B. Oliver, Nadeer N. Youssef, and Donna C. Fare. 2020. Evaluation of Systemic Imidacloprid and Herbicide Treatments on Flatheaded Borer (Coleoptera: Buprestidae) Management in Field Nursery Production. *Journal of Economic Entomology*. 113(6): 2808-2819. doi: 10.1093/jee/toaa228.
- Panth, M., Fulya Baysal-Gurel, Terri Simmons, **Karla M. Addesso** and Anthony Witcher. 2020. Impact of Winter Cover Crop Usage in Soilborne Disease Suppressiveness in Woody Ornamental Production System. *Agronomy*. 10, 995; doi:10.3390/agronomy10070995
- Dawadi, S.*, F. Baysal-Gurel, **K. M. Addesso**, J. B. Oliver and T. Simmons. 2019. Impact of cover crop usage on soilborne diseases in field nursery production. *Agronomy*. 9: 753. DOI: 10.3390/agronomy9110753.
- McCarty, E. and **K. M. Addesso**. 2019. Hemlock woolly adelgid management in forest, landscape and nursery production. *Journal of Insect Science*. 19(2): 1-17. <https://doi.org/10.1093/jisesa/iez031>
- Pandey, M.*, **K. M. Addesso**, R. S. Archer, S. Valles, F. Baysal-Gurel, P. Ganter, N. Youssef and J. B. Oliver. 2019. Worker size, geographical distribution, and introgressive hybridization of invasive *Solenopsis invicta* and *Solenopsis richteri* (Hymenoptera: Formicidae) in Tennessee. *Environmental Entomology*. 48(3): 727-732. <https://doi.org/10.1093/ee/nvz023>
- Brown, M. S.*, F. Baysal-Gurel, J. B. Oliver, and **K. M. Addesso**. 2019. Comparative performance of fungicides, biofungicides, and host plant defense inducers in suppression of *Phytophthora* root rot in flowering dogwood during simulated root flooding events. *Plant Disease*. 103(7): 1703-1711.
- Brown, M. S.*, F. Baysal-Gurel, J. B. Oliver, and **K. M. Addesso**. 2019. Evaluation of fungicides and biofungicide to control *Phytophthora* root rot (*Phytophthora cinnamomi* Rands) and ambrosia beetles (Coleoptera: Curculionidae: Scolytinae) on flowering dogwoods exposed to simulated flood events. *Crop Protection*. 124. <https://doi.org/10.1016/j.cropro.2019.05.028>.
- Liyanapathirana, P.*, **K. M. Addesso** and F. Baysal-Gurel. 2019. Effect of *Brassica* crop-based biofumigation on soilborne disease suppression in woody ornamentals. *Canadian Journal of Plant Pathology*. doi: 10.1080/07060661.2019.1625444
- Dawadi, S.*, J. B. Oliver, P. A. O'Neal and **K. M. Addesso**. 2019. Impact of cover cropping on arthropod pests of red maple trees in nursery production. *Florida Entomologist*. 102(1): 1-7.
- Dawadi, S.*, J. B. Oliver, P. O'Neal and **K. M. Addesso**. 2019. Management of flatheaded apple tree borer in woody ornamental nursery production with a winter cover crop. *Pest Management Science*. doi: 10.1002/ps.5310.
- Addesso, K. M.** J. B. Oliver, N. Youssef, P. A. O'Neal, C. M. Ranger, M. Reding, P. B. Schultz, and C. T. Werle. 2019. Trap tree and interception trap techniques for management of ambrosia beetles (Coleoptera: Curculionidae: Scolytinae) in nursery production. *Journal of Economic*

- Entomology. toy413, <https://doi.org/10.1093/jee/toy413>
- Werle, C. T., C.M. Ranger, P. B. Schultz, Mi. Reding, **K. M. Addesso**, J. B. Oliver, and B. J. Sampson. 2018. Integrating repellent and attractant semiochemicals into a push-pull strategy for ambrosia beetles (Coleoptera: Curculionidae). *Journal of Applied Entomology*. 00:1–11. <https://doi.org/10.1111/jen.12594>
- Addesso, K. M.** and P. A. O'Neal. 2019. Foliar and drench insecticides for preventative control of crapemyrtle aphid, 2017, *Arthropod Management Tests*. Volume 44(1), tsz010, <https://doi.org/10.1093/amt/tsz010>
- Addesso, K. M.** and P. A. O'Neal. 2018. Evaluation of foliar spray treatments against mite pests, 2017. *Arthropod Management Tests*. 43(1).
- Addesso, K. M.**, F. Baysal-Gurel, J. B. Oliver and C. M. Ranger. 2018. Protective effect of a fungicide against ambrosia beetle attacks and *Phytophthora cinnamomi* infection post-flooding. *Insects* 9(3):83. doi:10.3390/insects9030083
- Addesso, K. M.**, S. Leahy*, K. Trostel*, R. W. Behle and P. A. O'Neal. 2018. Evaluation of a lignin-encapsulated nootkatone formulation against *Tetranychus urticae* (Acari: Tetranychidae). *Florida Entomologist*. 101(3): 435-440.
- Addesso, K. M.**, A. Witcher, D. Fare and P. A. O'Neal. 2018. Swirski mite controlled-release sachets as a pest management tool in container tree production. *HortTechnology*. 28(3): 391-398.
- Addesso, K. M.** and Paul O'Neal. 2018. Evaluation of systemic pesticides as preventative treatments for Japanese maple scale, 2016-17. *Arthropod Management Tests*. 43(1). <https://doi.org/10.1093/amt/tsy002>
- Valles, S., J. B. Oliver and **K. M. Addesso**. 2017. Complete Genome sequence of a new isolate of *Solenopsis invicta* virus 3 from *Solenopsis* hybrids. *Genome Announcements*. 5(48).
- Addesso, K. M.**, J.B. Oliver, P. A. O'Neal, N. Youssef. 2017. Efficacy of nootka oil as a biopesticide treatment for imported fire ants. *Journal of Economic Entomology*. 110(4):1547-1555.
- Addesso, K. M.** and Paul O'Neal. 2017. Insecticide trials against adult Japanese beetles, 2016. *Arthropod Management Tests*. 42 (1): 10.1093/amt/tsx092.
- Werle, C. T.*, **K. M. Addesso**, B. J. Sampson, J. B. Oliver and J. J. Adamczek. 2017. Integrating kaolin clay for ambrosia beetle management in ornamental crops of eastern redbud. *HortScience*. 52(1): 94-98.
- Addesso, K. M.**, A. Blalock and P.A. O'Neal. 2016. Japanese maple scale activity and management in field nursery production. *Journal of Environmental Horticulture*. 34(2): 41–46.
- Ranger, C. M., M. E. Reding, P. B. Schultz, J. B. Oliver, S. D. Frank, **K. M. Addesso**, J. H. Chong, B. Sampson, C. Werle, and S. Gill. 2016. Biology, ecology, and management of *Xylosandrus* spp. ambrosia beetles (Coleoptera: Curculionidae: Scolytinae) in ornamental tree nurseries. *Journal of Integrated Pest Management*. 7(1): 1-9.
- Addesso K. M.**, A. Blalock and Paul A. O'Neal. 2016. Japanese maple scale in-field insecticide trials. *Arthropod Management Tests*. 41 (1): tsw046. doi: 10.1093/amt/tsw046
- Addesso, K. M.**, P. O'Neal and J.B. Oliver. 2015. Survey for spotted wing drosophila in the five-county nursery production region of middle Tennessee. *Florida Entomologist*. 98(4): 1050-1055.
- Sampson, B., T. Mallette, J. Lee, **K. M. Addesso**, O. Liburd, C. Werle* and D. Larsen. 2016. Novel aspects of *Drosophila suzukii* (Diptera: Drosophilidae) biology and an improved method for culturing this invasive species with a modified *D. melanogaster* diet. *Florida Entomologist*. 99: 774-780.
- Oliver, J. B., P. J. Landolt, N. N. Youssef, J. Basham, K. M. Vail, and **K. M. Addesso**. 2014. Trapping social wasps (Hymenoptera: Vespidae) with acetic acid and isobutanol in nurseries. *Journal of Entomological Science*. *Journal of Entomological Science* 49(4): 352-368.
- Addesso, K. M.**, P. A. Stansly and H. J. McAuslane. 2014. Organic products for use against pepper weevil. *Florida Entomologist*. 93 (3): 1148-1156.
- Ranger, C. M., A. Gorzlaneyk, **Karla M. Addesso**, Jason B. Oliver, Michael E. Reding, Peter B. Schultz and David W. Held. 2014. Conophthorin Enhances the Electroantennogram and field behavioral response of *Xylosandrus germanus* (Coleoptera: Curculionidae) to ethanol. *Agricultural and Forest Entomology*. doi: 10.1111/afe.12062

- Addesso, K. M.,** K. A. Short*, C. W. Miller, and A. J. Moore. 2014. Context-dependent female mate preferences in leaf-footed cactus bugs. *Behaviour*. 151: 479–492.
- Addesso, K. M.,** H. J. McAuslane and R. T. Cherry. 2012. Aggregation behavior of the southern chinch bug (Hemiptera: Blissidae). *Environmental Entomology* 41(4):887-895.
- Addesso, K. M.,** H. J. McAuslane and H. T. Alborn. 2011. Attraction of pepper weevil to volatiles from damaged pepper plants. *Entomologia Experimentalis et Applicata* 138: 1-11.
- Addesso, K. M.** and H. J. McAuslane. 2009a. Pepper weevil response to volatiles from host and non-host plants. *Environmental Entomology* 38: 216-224.
- Addesso, K. M.,** H. J. McAuslane, P. A. Stansly, F. Slansky and D. J. Schuster. 2009b. Artificial substrates for oviposition and larval development of the pepper weevil, *Anthonomus eugenii* Cano. *Journal of Economic Entomology*. 102: 257-264.
- Addesso, K. M.,** H. J. McAuslane, P. A. Stansly, and D. J. Schuster. 2007. Host marking by female pepper weevils, *Anthonomus eugenii* Cano. *Entomologia Experimentalis et Applicata* 125: 269-276.

Extension and Trade Publications

- Dhakal, K. and **K. M. Addesso**. 2021. Box tree moth – A new threat to boxwood. Tennessee Greentimes. Winter 2021.
- Addesso, K. M.,** A. Gonzalez, J. B. Oliver and A. Witcher. 2021. Flatheaded borer management in nurseries with winter cover crops. Tennessee State University. TSU-22-023(B)12a-13515.
- Klingeman, W., **K. M. Addesso** et al. 2021. Flatheaded borer management in specialty tree crops. Tennessee Greentimes. Spring 2021.
- Addesso, K. M.** and J. B. Oliver. 2019. DERT potato leafhopper. Tennessee State University. TSU-12-0043(A)-15c-13515
- Oliver, J. B., **K. M. Addesso**, N. Youssef, K. Vail and S. Powell. Off with their heads – Phorid decapitating flies to the rescue. submitted Winter 2019. Tennessee Greentimes.
- Addesso, K. M.,** E. McCarty and J. B. Oliver. Hemlock Woolly Adelgid Management and Quarantine Regulations Impacting Nursery Production. Tennessee State University. AR-ENT-01-2018.
- Addesso, K. M.** Japanese maple scale: a perennial problem. Winter 2018. Tennessee Greentimes.
- Vail, K. M., K. Flanders, J. Oliver and **K. M. Addesso**. 2018. Fire Ant Management in Pastures and Rangeland. University of Tennessee Extension. W648.
- Dawadi, S* and **K. M. Addesso**. 2017. DERT Azalea lace bug. Tennessee State University. TSU-12-0043(A)-15c-13515
- Dawadi, S.* and **K. M. Addesso**. 2017. DERT Juniper scale. Tennessee State University. TSU-12-0043(A)-15c-13515
- Dawadi, S.* and **K. M. Addesso**. 2016. DERT Multicolored Asian Lady Beetle. Tennessee State University. TSU-12-0043(A)-15c-13515
- Addesso, K. M.** and A. Blalock. Japanese maple scale in the nursery. Winter 2015. Tennessee Greentimes.
- Addesso, K. M.** and J.B. Oliver. 2014. DERT Brown Marmorated Stink Bug. Tennessee State University. TSU-12-0043(A)-15c-13515
- Addesso, K. M.** and Adam Blalock. Japanese Maple Scale in the Nursery. Tennessee State University. ANR-ENT-01-2015
- Addesso, K. M.** and J. B. Oliver. 2014. DERT Kudzu Bug. Tennessee State University. TSU-12-0043(A)-15c-13515
- Addesso K. M.** Spotted Wing Drosophila and the Green Industry. Winter 2013. Tennessee Greentimes.
- Oliver, J., **K. M. Addesso**, N. Youssef, A. Blalock and K. Vail. Calibrating a Fire Ant Bait Spreader. ANR-ENT-01-2013.
- Blalock, A. and **K. M. Addesso**. Broad Mite Control in Ornamentals. ANR-ENT-02-2013.
- Oliver, J., A. Blalock, **K. M. Addesso** and N. Youssef. Adding or changing a blocking plate on a Herd GT-77 spreader. Bait Spreader. ANR-ENT-03-2013.

Oliver, J., A. Blalock, **K. M. Adesso** and N. Youssef. Baiting Nursery Blocks with a Herd GT-77 Spreader. ANR-ENT-04-2013.
Adesso, K. M. and J.B. Oliver. 2013. Hemlock Woolly Adelgid. DERT, Tennessee State University. TSU-12-0043(A)-15c-13515
Adesso, K. M. and J. B. Oliver. 2013. Spotted Wing Drosophila. DERT, Tennessee State University. TSU-12-0043(A)-15c-13515

Student Mentoring

Postdoctoral Mentor

Dr. Cindy Perkovich, 2020-present.

Dr. Kripa Dhakal, 2020-present.

Graduate Research Mentor

Asmita Gautam, MS Student (advisor), Flatheaded borer ecology and management. Tennessee State University, 2021-present.

Madhav Parajuli, PhD student, Fungicide treatments for management of root rots. Tennessee State University, 2020-present.

Axel Gonzalez, MS Student (advisor), Cover crop management for pest control. Tennessee State University. 2019-2021.

Victoria Deren, MS Student (advisor), Simultaneously applied microbial pesticides: interactions and their impact on pathogens and arthropod pests. Tennessee State University. 2018-2020.

Vivek Ojha, MS Student (committee), Ambrosia beetle management in nurseries. Tennessee State University. 2018-2020.

Mary Holden, MS Student (committee), Improving boxwood disease management in Tennessee nursery production. Tennessee State University. 2018-2020.

Milan Panth, MS Student (committee), Sustainable Approaches to the Management of Soilborne Diseases in Nursery Production. Tennessee State University. 2018-2020.

Kyle Williams, MS Student (committee), Seasonal abundance of *Chrysopa nigricornis*, and life history and effects of pesticides on the biology of *Chrysoperla rufilabris* (Neuroptera: Chrysopidae) and field collected *Chrysoperla* spp. Tennessee State University. 2018-2020.

Uzoamaka Abana, Masters Student (committee), Field monitoring, biology and effects of temperature and insecticides on development, survival and reproduction of *Orius insidiosus* (Hemiptera: Anthracoridae). Tennessee State University. 2017-2019.

Christina Jennings, MS Student (committee), Glyphosate resistant horseweed: identification, confirmation and control in nursery crop production. 2017-2019.

Matt Brown, MS Student (committee), Reducing nursery tree attractiveness to ambrosia beetles (Coleoptera: Scolytinae) by using stress-mitigating fungicides to target biotic (Phytophthora root rot disease) and abiotic (flood stress) factors. Tennessee State University. 2016-2018.

Niamul Kabir, PhD Student (committee), Enhancing the detection process, prevention and sustainable management of soilborne diseases in Tennessee nursery production. Tennessee State University. 2015-2018.

Sujan Dawadi, Masters Student (advisor), Cover crop usage for pest management in red maple (*Acer rubrum*) tree production systems. Tennessee State University. 2015-2017.

Manoj Pandey, Masters Student (committee), Relationships among red and black imported fire ant and their hybrid with biological control agents, ant size, and geographic location with supplemental studies to manage fire ants and improve collection of biological control agents. Tennessee State University. 2015-2017.

Prabha Lilyanathripanage, Masters Student (committee), Sustainable management of soilborne diseases in nursery production. Tennessee State University. 2015-2017.

Kevin Trostel, MS student intern, Efficacy of a lignin-encapsulated nootkatone formulation for

control of two-spotted spider mites (*Tetranychus urticae*). Summer 2014, Middle Tennessee State University.

Undergraduate Research Mentor

- Katherine Oxley, 2020, undergraduate student intern, Cover crops and nematode management. Belmont University.
- Grace Woodward, 2018, undergraduate student intern, Tracking movement of water in container media with Signal Green, Tennessee Tech University.
- Syra Allen, undergraduate student intern, Repellent alcohols as a push for ambrosia beetles. Summer 2017, Tennessee Tech University.
- Amber Dunnaway, undergraduate student intern, Predatory mites for control of ornamental pests. Summer 2017, Tennessee Tech University.
- Mary Scott, undergraduate student intern, Botanical pesticides for fire ants. Summer 2017, East Tennessee State University.
- Diloney Cuttrell, undergraduate student intern, Adjuvants for optimizing kaolin-charcoal formulations. Summer 2015, Motlow Community College.
- Mindy King, Charcoal as an ethanol blocker. Summer 2015, UT Martin.
- Shannen Leahy, undergraduate student intern, Monitoring for phorid fly establishment at release sites in middle Tennessee. Summer 2014, Tennessee Tech University.
- Kolton Huckaby, undergraduate student intern, Bark beetle and bark beetle predator surveys in Rock Island State Park, TN. Summer 2014, Middle Tennessee State University.
- Garret Roper, undergraduate student intern, Survey for spotted wing drosophila, *Drosophila suzukii*, in the five-county nursery production region of Tennessee. Summer 2013, Tennessee Tech University.
- Miriam Butner, undergraduate student intern, Response of fire ants to extracts of coffee-weed, *Sesbania herbacea*. Summer 2013, Tennessee Tech University.
- Casey Reed, MS Student, Host plant volatiles to improve pepper weevil monitoring. Summer 2011-2012. University of Florida.
- Katherine Short, MS Student, Context-dependant attraction of female cactus bugs to males reared with and without cactus fruit. Spring 2011, University of Exeter, UK.
- Linhchi Dinh, undergraduate student, Can male pheromone composition predict winners and losers in territory and mating competitions? Spring-Fall 2010, University of Florida.
- Laureen Chan, undergraduate student, Pepper weevil feeding stimulants from host plant material. Spring 2010, University of Florida.
- Wendy Gonzalez-Canal and Laureen Chan, undergraduate students, Southern chinch bug attraction to conspecifics and host plant volatiles. Summer 2009, University of Florida.
- Casey Reed, University Scholars Program for Undergraduates, Isolation of pepper weevil feeding stimulants from host plant material. Summer 2008, University of Florida.

GRANTS, COOPERATIVE AGREEMENTS and INDUSTRY GIFTS

- Specialty Crop Research Initiative. **K. M. Adesso (PD)** et al. Flatheaded borer management in specialty tree crops. 2020-2024. \$6,058,955.
- Lin Li (PI), Lonnie Sharpe, Roger D Painter, Ying Wu and **K. M. Adesso (Co-PI)**. MRI: Acquisition of a LC/MS/MS for Multidisciplinary Environmental Studies and Training at Tennessee State University. 2020-2023. \$140,000
- Southern SSARE Research Grant. **K. M. Adesso (PI)**, Fulya Baysal-Gurel (Co-PI) and Anthony Witcher (Co-PI). Cover Crops in Woody Ornamental Production: Impact On Plant Growth, Arthropod Pests, Soil-Borne Pathogens And Weeds. 2018-2021. \$284,346.
- Anthony Witcher, Jason Oliver and **Karla Adesso (Co-PI)**. Development of Pre-harvest Spray and Post-harvest Drenches for Regulatory Pests in Nursery Stock (Project # 4.0425). 2020-2022. \$106,816

Floriculture and Nursery Research Initiative. 2018- 2023. Lisa Alexander (ARS-PI), Jason Oliver (Co-PI) and **K. M. Addesso (Co-PI)**. Methods of quarantine certification and biological control for fire ants. \$122,094.

Floriculture and Nursery Research Initiative. 2018-2023. Chris Ranger (ARS-PI), Jason Oliver (Co-PI), **K. M. Addesso (Co-PI)**. Ambrosia beetle management. Cooperative project Dr. Michael Reding (USDA-ARS Horticultural Insects Research Laboratory, Wooster, OH); and Dr. Pete Schultz (Virginia Tech Hampton Roads Agricultural Research and Extension Center, Virginia Beach, VA). \$155,040.

Farm Bill. 2018-2019. **K. M. Addesso (PI)**, Jason Oliver (Co-PI) and Alicia Bray (Co-PI). Expansion of Japanese Beetle Biological Control by Fall Tiphia and Identification of Fall and Spring Tiphia Attractants. \$109,384.

Farm Bill. 2018-2019. Anthony Witcher (PI), Jason Oliver (Co-PI) and **K. M. Addesso (Co-PI)**. Insecticide Drench Volume and Transplant Treatment Efficacy for Regulatory Pests in Containerized Nursery Stock. \$77,317.

APHIS. Co-PI. Jason Oliver (PI), **Karla Addesso (Co-PI)**, Steven Valles (Co-PI). 2017-2018. *Solenopsis invicta* virus (SINV) and *Kneallhazia solenopsae* in Tennessee and relocation of virus into new areas. \$20,642.

Southern SSARE On-Farm Grant. 2017-2019. **K. M. Addesso (PI)**, A. Witcher and L. Alexander. *Ambyseius swirskii* for management of pests in outdoor ornamental nursery production. \$14,872.

Farm Bill. 2017-2018. Jason Oliver (PI), **K. M. Addesso (Co-PI)**, Anthony Witcher (Co-PI). Continuation Soil Temperature Effects on Japanese Beetle Harmonization Plan Dip Treatments & Non-Neonicotinoid Alternatives. \$84,663.

APHIS. Co-PI. Jason Oliver (PI), **Karla Addesso (Co-PI)**, Steven Valles (Co-PI). Survey for imported fire and viruses in Tennessee populations. 2015-2017. \$30,000.

Bayer. **K. M. Addesso (PI)**. \$5,000.

Syngenta. **K. M. Addesso (PI)**. \$16,500

MTNA. **K. M. Addesso (PI)**, J. B. Oliver, P. A. O'Neal. Japanese maple scale control and ambrosia beetle detection. \$1,250.

IR-4. 2016-2017. **K. M. Addesso (PI)**. Foliar Feeding Leaf Beetles. \$17,500

Southern SSARE On-Farm Grant. 2015-2017. **K. M. Addesso (PI)** and J. B. Oliver (TSU). Incorporating a cover crop into field-grown nursery production to manage flatheaded appletree borer with the simultaneous benefit of improved and sustainable weed management. \$15,000

Tennessee Department of Agriculture Block Grant. **K. M. Addesso (Co-PI)**. 2015-2017. Reducing the impacts of Federal Imported Fire Ant Quarantine regulations on the Tennessee nursery industry. In collaboration with Drs. Jason Oliver (PI) and Sam Dennis. \$50,000.

USDA-NIFA Capacity Building Grant. 2013-2016. **K. M. Addesso (PI)**. Behaviorally-based control methods for ambrosia beetle management in ornamental nurseries. \$299,751.00

Horticultural Research Institute. 2014-2014. **K. M. Addesso (PI)**. Assessment of the Biopesticide Nootkatone for Use Against Mites on Ornamental Crops. \$22,050.

Floriculture and Nursery Research Initiative. **K. M. Addesso (Co-PI)**. Ambrosia beetle general biology, seasonal incidence, chemical management, stress factors related to tree attacks, and trapping techniques. Cooperative project with Dr. Jason Oliver (TSU), Dr. Chris Ranger (PI) and Dr. Michael Reding (USDA-ARS Horticultural Insects Research Laboratory, Wooster, OH); and Dr. Pete Schultz (Virginia Tech Hampton Roads Agricultural Research and Extension Center, Virginia Beach, VA). The project is funded by USDA 2013-2018, \$194,326.

Floriculture and Nursery Research Initiative. 2013-2018. Donna Fare (PI-ARS), Jason Oliver (Co-PI) and **K. M. Addesso (Co-PI)**. Evaluation of Cost-Effective Management of Imported Fire Ants in Nursery Crops. \$163,344.

HONORS AND AWARDS

- 2014, Tennessee State University, College of Agriculture, Human and Natural Sciences Young Researcher Award, \$1,000.
- 2009, Henry and Sylvia Richardson Postdoctoral Research Grant, Entomological Society of America, \$1,000.
- 2008, nominee, Outstanding Dissertation Award, Institute for Food and Agricultural Science, University of Florida.
- 2008, winner, John A. Mulrennan, Sr. Award for Best Dissertation, Entomology & Nematology Department, University of Florida, \$500.
- 2007, second place, student competition at the southeastern branch meeting of the Entomological Society of America in Knoxville, Tennessee.
Karla M. Adesso, H. J. McAuslane and H.T. Alborn. Response of pepper weevil (*Anthonomus eugenii* Cano) to host plant volatiles.
- 2006, first place, student competition at the Entomological Society of America annual meeting in Indianapolis, Indiana.
Karla M. Adesso, H. J. McAuslane and H.T. Alborn. Isolation of an oviposition deterrent in the pepper weevil, *Anthonomus eugenii* Cano.
- 2006, first place, student competition at the Florida Entomological Society annual meeting in Jupiter Beach, Florida.
Karla M. Adesso and H. J. McAuslane. Behavioral response of pepper weevil, *Anthonomus eugenii* Cano, to oviposition plugs and associated ovipositional cues.
- 2003-2007, York Presidential Fellowship, University of Florida. (\$20,000/yr)
-