

## Douglas Pfeiffer Publications

### Research Publications

#### 1. Papers in refereed journals

(\* indicates graduate student in Pfeiffer lab)

Bielski, J.\*., **D. Pfeiffer**, R. Ochoa and A. Ulsamer. *In press.* New state records of *Aculops ailanthi* (Lin, Jin, and Kuang) (Acariformes: Trombidiformes: Prostigmata: Eriophyidae), in USA; a pest or biological control agent of *Ailanthus altissima* (Mill.) Swingle? Proc. Entomol. Soc. Wash.

Dechaine, A. C.\*., **D. G. Pfeiffer**, T. P. Kuhar, S. M. Salom, T. C. Leskey, K. C. McIntyre, B. Walsh and J. H. Speer. 2023. Dendrochronology reveals different effects among host tree species from feeding by *Lycorma delicatula* (White). Front. Insect Sci. 3: 1137092 (11 p) Invited (<https://doi.org/10.3389/finsc.2023.1137082>)

Hussain, B., R. A. War and **D. G. Pfeiffer**. 2023. Jasmonic and salicylic induced defensive response in wine grapes against *Drosophila suzukii* (Diptera: Drosophilidae). Heliyon 9 (6): e16505. (<https://doi.org/10.1016/j.heliyon.2023.e16505>)

Nixon, L. J., S. Jones, A. Dechaine\*, D. Ludwick, M. Hickin, L. Sullivan, J. E. Elsonsohn, J. Gould, M. Keena, T. Kuhar, **D. G. Pfeiffer** and T. C. Leskey. 2022. Development of rearing methodology for the invasive spotted lanternfly, *Lycorma delicatula* (Hemiptera: Fulgoridae). Frontiers in Insect Science 2: 1025193. 11 p. (<https://doi.org/10.3389/finsc.2022.1025193>)

Dechaine, A. C.\*., M. Sutphin, T. C. Leskey, S. M. Salom, T. P. Kuhar and **D. G. Pfeiffer**. 2021. Phenology of *Lycorma delicatula* (Hemiptera: Fulgoridae) in Virginia, USA. Environ. Entomol. 50: 1267-1275. (<https://academic.oup.com/ee/article/50/6/1267/6382325>)

Smyers, E. C., J. M. Urban, A. C. Dechaine\*, **D. G. Pfeiffer**, S. R Crawford and D. C. Calvin. 2021. Spatial-temporal model for predicting spring hatch of the spotted lanternfly, *Lycorma delicatula* (Hemiptera: Fulgoridae). Environ. Entomol. 50: 126-137. (<https://doi.org/10.1093/ee/nvaa129>)

Nixon, L., H. Leach, C. Barnes, J. Urban, D. Kirkpatrick, D. Ludwick, B. Short, **D. G. Pfeiffer** and T. C. Leskey. 2020. Development of behaviorally based monitoring and biosurveillance tools for the invasive spotted lanternfly (Hemiptera: Fulgoridae *Lycorma delicatula*). Environ. Entomol. 49: 1117-1126. (<https://doi.org/10.1093/ee/nvaa084>)

Ludwick, D., W. R. Morrison, A. L. Acebes-Doria, A. M. Agnello, J. C. Bergh, M. L. Buffington, G. C. Hamilton, J. K. Harper, K. A. Hoelmer, G. Krawczyk, T. P. Kuhar, **D. G. Pfeiffer**, A. L. Nielsen, K. B. Rice, C. Rodriguez-Saona, P. W. Shearer, P. M. Shrewsbury, E. J. Talamas, J. F. Walgenbach, N. G. Wiman, T. C. Leskey. 2020. Invasion of the brown marmorated stink bug (Hemiptera: Pentatomidae) into the USA: Developing a national response to an invasive species crisis through collaborative research and outreach efforts. J. Integr. Pest Manag. 11(1): 1-16. (<https://doi.org/10.1093/jipm/pmaa001>)

Shrader, M. E.\*., H.J. Burrack and **D. G. Pfeiffer**. 2020. Effects of interspecific larval competition on developmental parameters in nutrient sources between *Drosophila suzukii* (Matsumura) (Diptera: Drosophilidae) and *Zaprionus indianus* Gupta. J. Econ. Entomol. 113: 230-238.

Bayalara, A.\*., C. C. Brewster, L. J. Vaughan and **D. G. Pfeiffer**. 2019. Foliar, fruit, and soil-applied organic insecticides for oriental fruit fly, *Bactrocera dorsalis* (Diptera:

Tephritidae), in Senegalese mangoes. Plant Health Prog. 20: 187-193.  
(<https://apsjournals.apsnet.org/doi/10.1094/PHP-10-18-0061-RS>)

**Pfeiffer, D. G.**, M. E. Shrader\*, J. C. E. Wahls\*, B. N. Willbrand\*, I. Sandum\*, K. van der Linde, C. A. Laub, R. S. Mays, E. R. Day. 2019. African fig fly (Diptera: Drosophilidae): Biology, expansion of geographic range and its potential status as a soft fruit pest. J. Integr. Pest Manag. 10(1): 20 p. (<https://doi.org/10.1093/jipm/pnz018>)

Shrader, M. E. \*, H. J. Burrack and **D. G. Pfeiffer**. 2019 *Drosophila suzukii* (Diptera: Drosophilidae) oviposition and adult emergence in six wine grape varieties grown in Virginia. J. Econ. Entomol. 112: 139-148. [doi.org/10.1093/jee/toy305](https://doi.org/10.1093/jee/toy305)

Willbrand, B. N. \*, and **D. G. Pfeiffer**. 2019. Brown rice vinegar as an olfactory field attractant for *Drosophila suzukii* (Matsumura) and *Zaprionus indianus* Gupta (Diptera: Drosophilidae) in cherimoya in Maui, Hawaii, with implications for attractant specificity between species and estimation of relative abundance. Insects 10(3): 80 (18 p) (<https://www.mdpi.com/2075-4450/10/3/80/htm>)

Hussain, B., A. R. War and **D. G. Pfeiffer**. 2018. Mapping foliage damage index and monitoring of *Pieris brassicae* by using GIS-GPS technology in cole crops. J. Entomol. Zool. Studies n6: 933-938.

Willbrand, B. \*, **D. G. Pfeiffer**, L. Leblanc, A. Yassin. 2018. First report of African fig fly, *Zaprionus indianus* Gupta (Diptera: Drosophilidae), on the Island of Maui, Hawaii, USA in 2017 and potential impacts to the Hawaiian entomofauna. Proc. Hawaiian Entomol. Soc. 50: 55-65. (<https://scholarspace.manoa.hawaii.edu/handle/10125/59215>)

Mathews, C. R., B. Blaauw, G. Dively, J. Kotcon, J. Moore, E. Ogburn, **D. G. Pfeiffer**, T. Trope\*, J. F. Walgenbach, C. Welty, G. Zinati and A. L. Nielsen. 2017. Evaluating a poly culture trap crop for organic management of *Halyomorpha halys* and native stink bugs in peppers. J. Pest Sci. 90: 1245-1255. doi: 10.1007/s10340-017-0838-z.

Dellinger, T. A., E. R. Day and **D. G. Pfeiffer**. 2016. Brown marmorated stink bug in the Mid-Atlantic states: Assessing grower perceptions, economic impact, and extension progress. J. Extension 54(4): 4RIB4 (9 pp). [http://www.joe.org/joe/2016august/pdf/JOE\\_v54\\_4rb4.pdf](http://www.joe.org/joe/2016august/pdf/JOE_v54_4rb4.pdf)

Basnet, S.\*, T. P. Kuhar, C. A. Laub and **D. G. Pfeiffer**. 2015. Seasonality and distribution pattern of brown marmorated stink bug (Hemiptera: Pentatomidae) in Virginia vineyards. J. Econ. Entomol. 108: 1902-1909. (doi: <http://dx.doi.org/10.1093/jee/tov124>)

Basnet, S.\*, L. M. Maxey, C. Laub, T. P. Kuhar and **D. G. Pfeiffer**. 2014. The stink bug (Hemiptera: Pentatomidae) community in primocane-bearing raspberries in southwestern Virginia. J. Entomol. Sci. 49: 304-312.

Rice, K. B., C. J. Bergh, E. J. Bergmann, D. J. Biddinger, C. Dieckhoff, G. Dively, H. Fraser, T. Gariepy, G. Hamilton, T. Haye, A. Herbert, K. Hoelmer, C. R. Hooks, A. Jones, G. Krawczyk, T. Kuhar, H. Martinson, W. Mitchell, A. L. Nielsen, **D. G. Pfeiffer**, M. J. Raupp, C. Rodriguez-Saona, P. Shearer, P. Shrewsbury, P. D. Venugopal, J. Whalen, N. G. Wiman, T. C. Leskey, and J. F. Tooker. 2014. Biology, ecology, and management of brown marmorated stink bug (Hemiptera: Pentatomidae). J. Integr. Pest Manag. 5(3): A1-A13. (<http://esa.publisher.ingentaconnect.com/content/esa/jipm/2014/00000005/00000003/art00005>)

Leskey, T. C., G. C. Hamilton, D. J. Biddinger, M. L. Buffington, C. Dieckhoff, G. P. Dively, H. Fraser, T. Gariepy, C. Hedstrom, D. A. Herbert, K. A. Hoelmer, C. R. R. Hooks, D. Inkley, G.

Krawczyk, T. P. Kuhar, D.-H. Lee, A. L. Nielsen, **D. G. Pfeiffer**, C. Rodriguez-Saona, P. W. Shearer, E. Talamas, E. Tomasino, J. Tooker, P. D. Venugopal, J. Whalen, V. Walton, K. M. Makkouk and N. Wiman. 2014. *Halyomorpha halys* (brown marmorated stink bug). CABI Invasive Species Compendium. On-line (<http://www.cabi.org/isc/?compid=5&dsid=27377&loadmodule=datasheet&page=481&site=144>)

Mochiah, M. B., M. K. Osei, K. Osei, **D. Pfeiffer** and R. Muniappan. 2014. Impact of farmer field schools on cabbage production in two districts of Ashanti and Brong Ahafo regions of Ghana. Internat. J. Agric. Innovat. Res. 2 (4): 525-529. ISSN (Online) 2319-1473 ([http://www.ijair.org/administrator/components/com\\_jresearch/files/publications/IJAIR\\_430\\_Final.pdf](http://www.ijair.org/administrator/components/com_jresearch/files/publications/IJAIR_430_Final.pdf))

Shrader, M.\* , T. P. Kuhar, P. Schultz, **D. Pfeiffer** and K. Kamminga. 2014. Bean leaf beetle (Coleoptera: Chrysomelidae) preference for two *Phaseolus* beans over soybean. J. Entomol. Sci. 49: 87-90.

Wu, S.\* , R. R Youngman, L. T. Kok, C. A. Laub and **D. G. Pfeiffer**. 2014. Interaction between entomopathogenic nematodes and entomopathogenic fungi applied to third instar southern masked chafer, *Cyclocephala lurida* (Coleoptera: Scarabaeidae), under laboratory and greenhouse conditions. Biol. Cont. 76: 65-73.

Dinakaran, D., G. Gajendran, S. Mohankumar, G. Karthikeyan, S. Thiruvudainambi, E. I. Jonathan, R. Samiyappan, **D. G. Pfeiffer**, E. G. Rajotte, G. W. Norton, S. Miller and R. Muniappan. 2013. Evaluation of integrated pest and disease management module for shallots in Tamil Nadu, India - A farmer's participatory approach. J. Integr. Pest Manag. 4(2): B1-B9 (<http://dx.doi.org/10.1603/IPM12019>) (<http://esa.publisher.ingentaconnect.com/content/esa/jipm/2013/00000004/00000002/art00004>)

Jordan, T. J.\* , A. Zhang and **D. G. Pfeiffer**. 2013. Blend chemistry and field attraction of commercial sex pheromone lures to grape berry moth, *Paralobesia viteana* (Clemens) (Lepidoptera: Tortricidae), and a non-target tortricid in vineyards. Environ. Entomol. 42: 558-563. Doi: <http://dx.doi.org/10.1603/EN13033>

**Pfeiffer, D. G.**, R. Muniappan, D. Sall, P. Diatta, A. Diongue and E. O. Dieng. 2013. First record of *Tuta absoluta* (Lepidoptera: Gelechiidae) in Senegal. Fla. Entomol. 96: 661-662. (<http://www.bioone.org/doi/pdf/10.1653/024.096.0241>) doi: <http://dx.doi.org/10.1653/024.096.0241>

Wallingford, A. K.\* , T. P. Kuhar, **D. G. Pfeiffer**, D. B. Tholl, J. H. Freeman, H. B. Doughty and P. B. Schultz. 2013. Host plant preference of harlequin bug (Hemiptera: Pentatomidae), and evaluation of a trap cropping strategy for its control in collard. J. Econ. Entomol. 106: 283-288.

Burrack, H. J., J. P. Smith, **D. G. Pfeiffer**, G. Koehler and J. LaForest. 2012. Using volunteer-based networks to track *Drosophila suzukii* (Diptera: Drosophilidae) an invasive pest of fruit crops. J. Integr. Pest Manag. 3 (4): B1-B5.

Leskey, T. C., G. C. Hamilton, A. L. Nielsen, D. F. Polk, C. Rodriguez-Saona, J. C. Bergh, D. A. Herbert, T. P. Kuhar, **D. Pfeiffer**, G. P. Dively, C. R. R. Hooks, M. J. Raupp, P. M. Shrewsbury, G. Krawczyk, P. W. Shearer, J. Whalen, C. Koplinka-Loehr, E. Myers, D. Inkley, K. A. Hoelmer, D.-H. Lee, and S. E. Wright. 2012. Pest status of the brown marmorated stink bug, *Halyomorpha halys* in the USA. Outlooks on Pest Manag. 23(5): 218-226. Doi: 10.1564/23oct07.

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## 2. Books and monographs

Demchak, K. (coord.), (PSU) T. E. Elkner, C. J. Esslinger, M. Frazier, S. D. Guiser, J. M. Halbrendt, J. K. Harper, G. Krawczyk, K. M. Richards, (Rutgers) J. R. Heckman, B. W. Majek, P. Nitzsche, P. Oudemans, G. Pavlis, D. Polk, C. Rodriguez-Saona, W. J. Sciarappa, D. L. Ward, (UDel) G. C. Johnson, (UMd) B. R. Butler, J. A. Fiola, W. Lantz, (USDA-Beltsville) M. Ehlenfeldt, (Va Tech) J. F. Derr, C. Johnson, **D. G. Pfeiffer**, R. A. Straw, K. S. Yoder, (WVA) A. R. Biggs, J. W. Jett, L. W. Jett (Additional Contributor) E. Mashburn, H. Swartz. 2013. The Mid-Atlantic Berry Guide for Commercial Growers, 2013-2014. Pa. State Univ., Agric. Res. Coop. Ext. 271 p. (Authors listed alphabetically within participating states).  
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