

Douglas Pfeiffer Publications

Research Publications

1. Papers in refereed journals

(* indicates graduate student in Pfeiffer lab)

- 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.
- Balayara, 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/pmz018>)
- 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
- 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
- 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. Garipey, 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>)
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- 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.
- Wallingford, A. K.* and **D. G. Pfeiffer**. 2012. A survey of sharpshooters (Hemiptera: Cicadellidae) in Virginia vineyards, a region of expanding concern for Pierce's disease. *J. Entomol. Sci.* 47: 360-365.
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- Zhang, X.*, S. Luckhart, Z. Tu and **D. G. Pfeiffer**. 2010. Analysis of *Wolbachia* strains associated with *Conotrachelus nenuphar* (Coleoptera: Curculionidae) in the eastern United States. *Environ. Entomol.* 39: 396-405.
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- Lim, G. T.*, L. G. Kirton, S. M. Salom, L. T. Kok, R. D. Fell and **D. G. Pfeiffer**. 2008. Mahogany shoot borer control in Malaysia and prospects for biocontrol using weaver ants. *J. Trop. For. Sci.* 20: 147-155
- Lim, G. T. *, L. G. Kirton, S. M. Salom, L. T. Kok, R. D. Fell and **D. G. Pfeiffer**. 2008. Host plants and associated trophobionts of the weaver ants *Oecophylla* spp. (Hymenoptera: Formicidae).

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(<http://www.cababstractsplus.org/cabreviews/Reviews.asp?action=display&openMenu=relatedItems&ReviewID=82825&Year=2008>)

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- Pfeiffer, D. G.** and K. Love. 2007. Handheld applications in fruit extension delivery. *J. Extension* 45 (5): 5TOT6
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- McClanan, M. E. *, S. Luckhart and **D. G. Pfeiffer**. 2004. Use of random amplified polymorphic DNA polymerase chain reaction (RAPD-PCR) to differentiate populations of plum curculio, *Conotrachelus nenuphar* (Herbst). *J. Entomol. Sci.* 39: 117-121.
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- Gronning, E. K.*, D. M. Borchert*, **D. G. Pfeiffer**, C. M. Felland, J. F. Walgenbach, L. A. Hull and J. C. Killian. 2000. Effect of specific and generic pheromone blends on captures in pheromone traps by four leafroller species in mid-Atlantic apple orchards. *J. Econ. Entomol.* 93: 157-164.
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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, (UDeI) 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. Swarz. 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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Demchak, K. (coord.), (PSU) Brittingham-Brant, M., M. Frazier, S. D. Guiser, J. M. Halbrendt, J. K. Harper, G. Krawczyk, K. M. Richards, E. S. Sánchez, J. W. Travis, (Rutgers) B. W. Majek, P. Nitzsche, P. Oudemans, G. Pavlis, S. Polavarapu, D. Polk, P. R. Probasco, C. Rodriguez-Saona, W. J. Sciarappa, P. W. Shearer, M. Stanghellini, (UDel) D. M. Caron, W. E. Kee, G. C. Johnson, (UMd) B. R. Butler, J. A. Fiola, H. J. Swartz, (Va Tech) A. D. Bratsch, J. F. Derr, J. A. Pattison, **D. G. Pfeiffer**, K. S. Yoder, (WVA) J. Baniecki, A. Biggs, H. W. Hogmire, R. Zimmerman. 2006. The Mid-Atlantic Berry Guide for Commercial Growers. Pa. State Univ., Agric. Res. Coop. Ext. 205 p. (Authors listed alphabetically within participating states) (VCE Pub. No. 423-020).

Tedeschini, J., B. Stamo and **D. Pfeiffer**. 2006. Menaxhimi i paraziteve ne ullishtet organike. [Pest management in organic olives.] Plant Protection Institute. Durrës, Albania. 135 p.

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3. Book chapters

Pfeiffer, D. G. 2012. Japanese beetle and other Coleoptera feeding on grapevines in eastern North America. p. 403-439. *In*: N. J. Bostanian, C. Vincent and R. Isaacs (eds.), Arthropod Management in Vineyards: Pests, Approaches, and Future Directions. Springer, Dordrecht, The Netherlands. (<http://www.springerlink.com/content/j80r8184452875t1/>)

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