

Nik Wiman

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EDUCATION & TRAINING

Ph.D. 2011 **Washington State University**, Orchard pest management
M.S. 2002 **Montana State University**, Rangeland biological control of weeds
B.S. 1998 **Montana State University**, General biology

RESEARCH & PROFESSIONAL EXPERIENCE

2015-present **Assistant Professor, Orchard (Hazelnut) Specialist**, Oregon State University
2014-2015 **Assistant Professor, Senior Research**, Oregon State University
2012-2014 **Postdoctoral Research Associate**, Oregon State University
2002-2006 **Associate in Research**, Washington State University

SYNERGISTIC ACTIVITIES

- I am the lead Extension faculty for the Oregon Hazelnut Industry. I work closely with commercial hazelnut growers in western Oregon, where 99% of the US hazelnut crop is produced. I organize and participate in educational events, and develop resources for hazelnut growers.
- I am the Extension board member of the Nut Growers Society of Oregon, Washington and British Columbia, a regional non-profit organization that produces educational events and resources for the hazelnut growers.

PUBLICATIONS (refereed journals, last 4 years)

1. Fanning, P, S Lanka, S Mermer, J Collins, S Van Timmeren, H Andrews, S Hesler, F Drummond, **NG Wiman**, V Walton, A Sial, R Isaacs. 2021. Field and laboratory testing of feeding stimulants to enhance insecticide efficacy against spotted-wing drosophila, *Drosophila suzukii* (Matsumura). *Economic Entomology*. (*in press*)
2. T Leskey, H Andrews, A Bady, L Benvenuto, I Bernardinelli, B Blaauw, P P Bortolotti, L Bosco, E D Bell, G Hamilton, T Kuhar, D Ludwick, L Maistrell, G Malossini, R Nannini, L J Nixon, E Pasqualini, M Preti, B D Short, L Spears, L Tavella, G Vetek, and **NG Wiman**. 2021. Refining Pheromone Lures for the Invasive *Halyomorpha halys* (Hemiptera: Pentatomidae) Through Collaborative Trials in the USA and Europe. *Economic Entomology*. (*in press*)
3. **Wiman, N G**, H Andrews, E Rudolph, J Lee, and M-Y Choi. 2020. Fatty Acid Profile as an Indicator of Larval Host for Adult *Drosophila suzukii*. *Insects*. 11: 752.
4. Dalton Ludwick, William R. Morrison III, Angelita L. Acebes-Doria, Arthur M. Agnello, J. Christopher Bergh, Matthew L. Buffington, George C. Hamilton, Jayson K. Harper, Kim A. Hoelmer, Gregory Krawczyk, Thomas P. Kuhar, Douglas G. Pfeiffer, Anne L. Nielsen, Kevin B. Rice, Cesar Rodriguez-Saona, Peter W. Shearer, Paula M. Shrewsbury, Elijah J. Talamas, James F. Walgenbach, **NG Wiman**, and Tracy 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. *Outlooks in Pest Management*. 11 (1): 1-16. <https://doi.org/10.1093/jipm/pmaa001>
5. Webber, JB, M Putnam, M Sardani, JW Pscheidt, **NG Wiman**, and VO Stockwell. 2020. Characterization of isolates of *Xanthomonas arboricola* pv. *corylina*, the causal agent of bacterial blight, from Oregon hazelnut orchards. *Journal of Plant Pathology*. <https://doi.org/10.1007/s42161-020-00505-6>
 6. Lowenstein, DM, H Andrews, R Hilton, C Kaiser, and **NG Wiman**. 2019. Establishment in an introduced range: dispersal capacity and winter survival of *Trissolcus japonicus*, an adventive egg parasitoid. *Insects*. 10(12), 443. <https://doi.org/10.3390/insects10120443>
 7. **Wiman, NG**, Michele Wiseman, Lea Merlet, and John Bryan Webber. 2019. Identity and pathogenicity of fungi newly associated with hazelnut (*Corylus avellana* L.) trunk cankers in Oregon. *PLOS One*. PLoS ONE 14(10):e0223500, <https://doi.org/10.1371/journal.pone.0223500>.
 8. Acebes-Doria, AL, AM Agnello, BR Blaauw, GD Buntin, DG Alston, EH Beers, JC Bergh, TE Cottrell, R Bessin, S Chen, KM Daane, S Fleischer, C Guédot, LJ Gut, GC Hamilton, R Hilton, KA Hoelmer, WD Hutchison, P Jentsch, G Krawczyk, TP Kuhar, JC Lee, AL Nielsen, AA Sial, LR Spears, BD Short, MD Toews, JD Walgenbach, C Welty, **NG Wiman**, and TC Leskey. 2019. Season-long Monitoring of the Brown Marmorated Stink Bug, *Halyomorpha halys* Stål (Hemiptera: Pentatomidae), Throughout the United States using Commercially Available Traps and Lures. *J. Econ Entomol.* <https://doi.org/10.1093/jee/toz240>.
 9. Lowenstein, DM, H Andrews, A Mugica, **NG Wiman**. 2019. Sensitivity of the egg parasitoid *Trissolcus japonicus* to field and laboratory-applied insecticide residue. *J. Econ Entomol.* 112: 2077-2084.
 10. McIntosh, H. DM Lowenstein, **NG Wiman**, JS Wong, and JC Lee. 2019. Parasitism of frozen *Halyomorpha halys* eggs by *Trissolcus japonicus*: applications for rearing and experimentation, impact of heat exposure on frozen eggs. *Biocontrol Science and Technology*. 29:478-493. <https://doi.org/10.1080/09583157.2019.1566439>.
 11. Skillman, V, **N Wiman**, and J Lee. 2019. Nutrient declines in overwintering *Halyomorpha halys* populations. *Experimentalis Entomologia et Applicata*. 166:778-798.
 12. Skillman, V, **NG Wiman**, JC Lee. 2018. Monitoring nutrient profiles of brown marmorated stink bug adults and nymphs on summer holly. *Insects*, 9(3): 120. <https://doi.org/10.3390/insects9030120>
 13. Wong, JS, AC Cave, DM Lightle, WM Mahaffee, SE Naranjo, **NG Wiman**, JM Woltz, and JC Lee. 2018. *Drosophila suzukii* flight performance reduced by starvation but not affected by humidity. *Journal of Pest Science*. 91: 1269-1278.
 14. Lowenstein, DM, H Andrews, E Rudolph, **NG Wiman**, and CJ Marshall. 2018. Historical records of the digger wasps, *Astata* Latreille 1796 (Hymenoptera: Crabronidae: Astatinae), from the United States and Canada in the Oregon State Arthropod Collection. *Catalog: Oregon State arthropod collection 2*: 1-9.
 15. Lowenstein, D.M., E. Sullivan, H. Andrews, E. Rudolph, and **N. Wiman**. 2018. *Astata unicolor* population in Oregon with observation of predatory behavior on Pentatomidae. *Annals of the Entomological Society of America*. 11:122-126.

16. Rice, K, R Bedoukian, G Hamilton, P Jentsch, A Khrimian, P MacLean, W Morrison, B Short, P Shrewsbury, D Weber, **N Wiman**, T Leskey. 2017. Enhanced response of *Halyomorpha halys* (Stål) (Hemiptera: Pentatomidae) to its Aggregation Pheromone with Ethyl Decatrieonate. *Economic Entomology*. <https://doi.org/10.1093/jee/tox316>.
17. Valentin, R, A Nielsen, **N Wiman**, DH Lee, and D Fonseca. 2017. Global invasion network of the brown marmorated stink bug, *Halyomorpha halys*. *Scientific Reports*, 7.
18. Nielsen, A.L., Fleischer, S., Hamilton, G.C., Hancock, T., Krawczyk, G., Lee, J.C., Ogburn, E., Pote, J.M., Raudenbush, A., Rucker, A., Saunders, M., T Leskey, and **N Wiman** 2017. Phenology of brown marmorated stink bug described using female reproductive development. *Ecology and Evolution*. 10.1002/ece3.3125.
19. Woltz, J.M., **N Wiman**. and Lee, J.C., 2017. Two Pests Overlap: *Drosophila suzukii* (Diptera: Drosophilidae) Use of Fruit Exposed to *Halyomorpha halys* (Hemiptera: Pentatomidae). *Journal of Economic Entomology*. DOI: 10.1093/jee/tox156.
20. Rice, K., J. Cullum, **N Wiman**, T Leskey. 2017 *Halyomorpha halys* (Hemiptera: Pentatomidae) response to pyramid traps baited with attractive light and pheromonal stimuli. *Florida Entomologist*. 100(2): 445-49.
21. Abram, P et al. (45 authors) incl. **N Wiman**. 2017. Indigenous arthropod natural enemies of the invasive brown marmorated stink bug in North America and Europe. 90(4): 1009-1020. *Journal of Pest Science*.
22. Hedstrom, C., **Wiman, N.**, Bai, B., Lowenstein, D., Andrews, H. 2017. Pentatomid host suitability and the discovery of introduced populations of *Trissolcus japonicus* in Oregon. *Journal of Pest Science*. DOI: 10.1007/s10340-017-0891-7.
23. Mohekar, P., Osborne, J., **Wiman, N. G.**, Walton, V., & Tomasino, E. 2017. Influence of Winemaking Processing Steps on the Amounts of (E)-2-Decenal and Tridecane as Off-Odorants Caused by Brown Marmorated Stink Bug (*Halyomorpha halys*). *Journal of Agricultural and Food Chemistry*. 65(4): 872-878.