

Peter N. Nelson

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Education

- Ph.D. Entomology, North Carolina State University, Raleigh, North Carolina. 2018. GPA: 3.74.
- M.S. Entomology, Michigan State University, East Lansing, Michigan. 2014. GPA: 3.58.
- B.S. Entomology, Michigan State University, East Lansing, Michigan. Specialization: Environmental Economics and Policy. 2009. GPA: 3.75.

Employment History

April 2018-September 2018. **Tree Fruit Pest Management Consultant.** Hortsystems, Inc., Honor, MI. President: James Laubach.

Responsibilities:

- Scouted orchards for arthropod pests, diseases, and horticultural issues and prepare reports to be delivered to grower clients.
- Met with growers to discuss scouting reports and assist in developing orchard management strategies.
- Performed research, including data collection and management, statistical analyses, and technical report writing.

July 2014-April 2018. **Entomology Research Assistant.** Tobacco Entomology Laboratory, Dept. of Entomology, NCSU, Raleigh, NC. PI: Dr. Clyde E. Sorenson.

September 2006-July 2014. **Entomology Research Assistant.** Pesticide Alternatives Laboratory, Dept. of Entomology, MSU, East Lansing, MI. PI: Dr. Mark E. Whalon.

Research Assistant Responsibilities:

- Graded assignments, proctored exams, and presented lecture for undergraduate and graduate level courses.
- Developed and carried out research project design, data collection, statistical analyses, and report generation.
- Supervised student technicians aiding in field and laboratory research.
- Developed grant proposals for regional and national funding organizations.
- Developed and delivered extension trade journal articles, presentations, and brochures for growers audiences.
- Prepared and published peer-reviewed scientific manuscripts.

Teaching History

- Fall 2015, 2016. Teaching assistant. ENT 550: Fundamentals of Insect Control. NCSU Dept. of Entomology and Plant Pathology.
- Fall 2012, 2011, 2010. Invited lecturer for the following topics: Evolution, Integrated Pest Management, Insect Communication. ISB 201: Insects, Globalization, and Sustainability. MSU Dept. of Entomology.

Selected Papers and Posters Presented at Scientific Meetings

- Nelson, Peter N., Burrack, Hannah J., and Sorenson, Clyde E. A sticky-situation: taking advantage of a protective mutualism in an agronomic crop. Entomological Society of America, Annual Meeting. Denver, CO. November 2017. **Invited*
- Nelson, Peter N., Burrack, Hannah J., and Sorenson, Clyde E. Plant-provided food increases indirect defense through manipulation of a mutualism. Integrated Control in Protected Crops/Western Palaearctic Regional Section working group "Integrated Crops in Protected Temperate Climate", International Organisation for Biological and Integrated Control, Niagara Falls, Canada. 2017.

- Nelson, Peter N., Burrack, Hannah J., and Sorenson, Clyde E. Assessing the impacts of systemically-applied imidacloprid on the generalist hemipteran predator *Jalysus wickhami*. XXV International Congress of Entomology. Orlando, FL. September 2016.
- Nelson, Peter N. and Whalon, Mark E. Life stage influence on subterranean plum curculio, *Conotrachelus nenuphar* (Herbst), susceptibility to microbial control agents. Entomological Society of America, Annual Meeting. Portland, OR. November 2014.
- Whalon, Mark E. and Nelson, Peter N. Solid State Delivery Systems: Rethinking liquid nutrients and biopesticide delivery in orchards. USEPA and Biopesticide Industry Alliance, Semi-Annual Meeting. Washington DC. April 2012.
- Nelson, Peter N. and Whalon, Mark E. 2011. Optimizing soil applications of entomopathogenic fungi and nematodes to enhance efficacy against plum curculio larvae in upper midwest tree fruit production Entomological Society of America, Annual Meeting. Reno, NV. November 2011.
- Whalon, Mark E. and Nelson, Peter N. Biological Pesticides: current and future prospects in orchard ecosystems. British Crop Production Council, Congress and Exhibition. London, England. November 2010.

Selected Papers and Posters Presented at Extension Meetings

- Nelson, Peter N., Toennisson, Aurora, Kennedy, George, and Burrack, Hannah J. Tobacco insect management: 2018 update. North Carolina Regional Tobacco GAP Meetings. North Carolina. January 2018.
- Nelson, Peter N., Burrack, Hannah J. IPM based strategies to reduce pesticide use in tobacco. Johnston County Certified Crop Advisor Training. Smithfield, NC. December 2017.
- Nelson, Peter N., Burrack, Hannah J., and Sorenson, Clyde E. Effects of systemic neonicotinoid insecticides on generalist predators in tobacco. North Carolina Tobacco Field Day. Kinston, NC. July 2016.
- Nelson, Peter N. and Whalon, Mark E. New insights into plum curculio behavior in soil. Paper. Great Lakes Fruit, Vegetables, and Farm Market Expo. Grand Rapids, MI. December 2013. *Invited
- Whalon, Mark E., Nelson, Peter N., Jaremba, Rosemary, Posavetz, Rachel. Assessing the ecological impacts of Cry protein from *Bacillus thuringiensis* genetically modified corn in waterways. Paper. Michigan Corn and Soybean Research Meeting. Peck, MI. February 2012.
- Selby, R. Duncan, Nelson, Peter N., and Whalon, Mark E. The effect of compost on extending entomopathogenic nematode lifespan and lethality against plum curculio in apple orchards. Poster. Great Lakes Fruit, Vegetables, and Farm Market Expo. Grand Rapids, MI. December 2011.

Peer-Reviewed Publications

- Baughman, Bradley W., Nelson, Peter N., and Grieshop, Matthew. 2015. Impacts of cultivation and subsequent burial on *Cydia pomonella* (Lepidoptera: Tortricidae) and *Conotrachelus nenuphar* (Coleoptera: Curculionidae). Journal of Economic Entomology, 108(3), 1215-1220.
- Nelson, Peter N. and Sorenson, Clyde E. 2018. First report of *Prunus mume* Siebold & Zucc. As a host of *Conotrachelus nenuphar* (Herbst) (Coleoptera: Curculionidae). Proceedings of the Entomological Society of Washington, 120 (3), 648-650.
- Eure, Erin R., Nelson, Peter N. and Sorenson, Clyde E. 2018. Ovicidal activity of acetamiprid and imidacloprid against *Manduca sexta* (Lepidoptera: Sphingidae). Journal of Entomological Science, 53 (3) 400-401.

Selected Extension Publications

- Nelson, Peter N. 2017. Potato Cyst Nematodes, a New Threat to Potatoes in Kenya. Kenya Plant Health Inspectorate Service Extension Brochure.
- Nelson, Peter N. 2017. The Tomato Leaf Miner: *Tuta absoluta*. Kenya Plant Health Inspectorate Service Extension Brochure.
- Whalon, Mark E. and Nelson, Peter N. 2014. An Old Pest Challenges Cherry Growers. PESPWire Spring 2014. US EPA. Pg. 8.
- Whalon, Mark E. and Nelson, Peter N. 2014. Cherry Growers Face new and Familiar Pests. PESPWire Winter 2014. US EPA. Pg. 6-7.
- Whalon, Mark E., Nelson, Peter N., and Ash, Tyler D. 2011. Effects of Pesticide Transition on Natural Enemies in Cherry Orchards. Tart Cherry Integrated Orchard Management Project Newsletter. Pg. 2-3.

Research Grants Awarded (lead writer, narrative and budget, on behalf of Dr. Mark E. Whalon)

- Development and delivery of effective entomopathogenic fungi and nematodes for managing high tunnel tree and small fruit pests. 2013: \$27,200, 2014: \$28,000 Project GREEN, Michigan State University, East Lansing, MI. 2013-2014.
- Susceptibility of the European earwig, *Forficula auricularia*, to entomopathogenic fungi and nematodes. \$800. Hutson Endowment Graduate Research Fund, Michigan State University, East Lansing, MI. 2011.
- Optimizing applications of a biopesticide and a biological control agent targeting the Michigan apple pest plum curculio. \$11,349. Michigan Apple Research Committee, Lansing, MI. 2010.

Selected Awards and Honors

- Third place, Annual Graduate Student Research Symposium, NCSU, Raleigh, NC. 2018.
- EG Moss Graduate Student Award, NCSU College of Agriculture and Life Sciences, Raleigh, NC. 2017.
- Finalist, Three Minute Thesis Competition, NCSU University Graduate School, Raleigh, NC. 2017.
- First Place, Research Symposium, Bayer Crop Science LP, Research Triangle Park, NC. 2017.
- Student Travel Award, Integrated Control in Protected Crops/Western Palaearctic Regional Section working group "Integrated Crops in Protected Temperate Climate", International Organisation for Biological and Integrated Control, Niagara Falls, Canada. 2017.
- Trellis Fund Graduate Student Fellowship, Horticultural Innovation, University of California – Davis, Davis, CA. 2017.

Additional Accomplishments

- Eagle Scout, Boy Scouts of America, Troop 72, Alpena, Michigan.

References

- Available upon request