

Nicholas S. McDonald

<https://www.linkedin.com/in/nicholassantinomcdonald/>

mcdonn@oregonstate.edu

(732) 757-5678

EDUCATION

Oregon State University

B.Sc. Horticulture

June 2024

Corvallis, Oregon

- Concentration: Ecological Management of Turf, Landscape, and Urban Horticulture

Oregon State University

M.Sc. Horticulture

June 2026

Corvallis, Oregon

- Concentration: Entomology

RESEARCH EXPERIENCE

USDA-ARS Horticultural Crops Research Unit

Research Assistant

June 2023 – Present

Corvallis, Oregon

- Collaborate with an expert team conducting research in biological control of insect pests of horticultural crops.
 - Research parasitoid wasps as biological control agents, chiefly *Trissolcus japonicus* and *Ganaspis brasiliensis*.
 - Research insect pests including *Drosophila suzukii* (spotted-wing drosophila) and *Halyomorpha halys* (brown marmorated stink bug), along with a variety of native Pentatomid species.
- Manage numerous insect colonies of over a dozen species that include thousands of individuals.
 - Produce tens of thousands of wasps with a parasitoid reproductive cycle: collecting and providing *H. halys* eggs to rear *T. japonicus*, collecting *D. suzukii* eggs to rear *G. brasiliensis*.
 - Capture and maintain breeding colonies of numerous Pentatomid stink bug species, including predatory *Podisus maculiventris*, invasive *Halyomorpha halys*, and native North American stink bug species such as *Chinavia hilaris*, *Thyanta custator*, *Chlorochroa* sp., *Euschistus* sp., and *Banasa* sp.
- Perform field research at agricultural and natural sites throughout western Oregon to prepare insect traps, release marked insects, inspect plants for insect damage, collect insect samples, and record insect presence.
- Analyze insect traps collected from field sites to identify and quantify insect species, and to detect insect biocontrol agents previously marked and released using liquid, fluorescent SmartWater forensic solution.

WORK EXPERIENCE

Woodies Drive-In

Manager

June 2013 – September 2021

Ship Bottom, New Jersey

- Oversaw general operations at a busy food service establishment, including responsibility for customer service, inventory monitoring, food quality assurance, supplier relations and ordering, scheduling, training, and supervision of a team of employees.

PROFESSIONAL ASSOCIATIONS

American Horticultural Society – <i>National Member</i>	2023 – Present
American Phytopathological Society – <i>Student Member</i>	2024 – Present
Entomological Society of America – <i>Student Member</i>	2024 – Present
Royal Entomological Society – <i>Student Member</i>	2024 – Present

RELEVANT COURSEWORK

Applied Sciences

- AutoCAD, Geographic Information Systems (GIS) in Natural Resources, Systems Engineering

Entomology

- Insect Agroecology, Insect Pest Management

Formal Sciences

- Scientific Reasoning, Seminar

Horticulture

- Biology of Horticulture, Horticulture Systems, Irrigation and Drainage, Landscape Plant Materials, Plant and Landscape Professional Training, Plant Biology, Plant Nutrition, Plant Pathology, Plant Physiology, Plant Propagation, Principles of Turfgrass Maintenance, Soil Science, Sustainable Landscapes, Weed Management, World Food Crops

Natural Sciences

- Applied Ecology of Managed Ecosystems, Biology, Chemistry, Ecological Restoration, Environmental Science, Sustainability Assessment, Water Science and Policy

Viticulture

- Berry and Grape Physiology and Culture, Temperate Tree Fruits, Berries, Grapes, and Nuts, Wine in the Western World

AWARDS AND ACCOMPLISHMENTS

ARCO-Swallow Scholarship	2024
Dean's List	March 2023 – June 2024
Sandy Hook Herbarium	2011 – 2012
<ul style="list-style-type: none">▪ Worked with a small group to establish an herbarium recognized by the US National Park Service that is devoted to coastal plant species found at the Sandy Hook Unit of the Gateway National Recreation Area.	
Navy Junior Reserve Officers' Training Corps	2008 – 2012
<ul style="list-style-type: none">▪ Chief Petty Officer	
MAST Academic Team	2008 – 2012
<ul style="list-style-type: none">▪ Captain of high school academic team, competing and placing in dozens of tournaments across New Jersey, and involved in the planning of tournaments hosted at team's home high school.	

PUBLICATIONS

Paul, R. L., Hagler, J. R., Janasov, E. G., **McDonald, N. S.**, Voyvot, S., & Lee, J. C. (2024). An Effective Fluorescent Marker for Tracking the Dispersal of Small Insects with Field Evidence of Mark-Release-Recapture of *Trissolcus japonicus*. *Insects*, 15(7), 487.
<https://doi.org/10.3390/insects15070487>

REFERENCES

Dr. Jana Lee | USDA-ARS Scientist | jana.lee@usda.gov | (541) 738-4110
Ryan Paul | Research Entomologist | ryanp@oregonstate.edu | (734) 883-7311
Peter Poulas | Woodies Drive-In Manager | pete@woodieslbi.com | (609) 361-7300
Anne Gearhart | OSU Academic Advisor | anne.gearhart@oregonstate.edu | (541) 737-5448