

KATHERINE J. TURO

USDA NIFA POSTDOCTORAL FELLOW | ✉ katieturo@gmail.com | ☎ (860) 367-3300

EDUCATION

- PHD ENTOMOLOGY** – *The Ohio State University*
Dr. Mary Gardiner’s Ag-Urban Landscape Ecology Laboratory **May 2021**
Columbus, OH
- BS ENVIRONMENTAL SCIENCE** – *Messiah College*
College Honors Program, Biology Honors Program **May 2013**
Mechanicsburg, PA
- BA ENGLISH**, Writing Concentration – *Messiah College* **May 2013**
Mechanicsburg, PA

RESEARCH PUBLICATIONS (1 1)

- Turo KJ**, Gardiner MM (2021) Effects of urban greenspace configuration and native vegetation on bee and wasp reproduction. *Conservation Biology*. doi: 10.1111/cobi.13753
- Gardiner MM, Perry KI, Riley CBR, **Turo KJ**, Sivakoff FS, Delgado de la Flor YA (2021) Community science data suggests that urbanization and forested habitat loss threaten aphidophagous native lady beetles. *Ecology and Evolution* 11: 2761–2774. doi: 10.1002/ece3.7229
- Turo KJ**, Spring MR, Sivakoff FS, Delgado de la Flor YA, Gardiner MM (2021) Conservation in post-industrial cities: How does vacant land management and landscape configuration influence urban bees? *Journal of Applied Ecology* 58: 58-69 doi: 10.1111/1365-2664.13773
- Turo KJ**, Gardiner MM (2020) The balancing act of urban conservation. *Nature Communications*. 11: 1-5. doi: 10.1038/s41467-020-17539-0
- Parker DM, **Turo KJ**, Delgado de la Flor YA, Gardiner MM (2020) Landscape context influences the abundance and richness of native lady beetles occupying urban vacant land. *Urban Ecosystems* 23: 1299–1310. doi: 10.1007/s11252-020-01000-7
- Delgado de la Flor YA, Perry KI, **Turo KJ**, Parker DM, Thompson JL, Gardiner MM (2020) Local and landscape-scale environmental filters drive the functional diversity and taxonomic composition of spiders across urban greenspaces. *Journal of Applied Ecology*. 57: 1570–1580. doi: 10.1111/1365-2664.13636
- Yang L, **Turo KJ**, Riley CB, Alfaro Inocente E, Tian J, Hoekstra N, Piermarini PM, Gardiner MM (2019) Can urban greening lead to increased vector abundances in cities? The impact of mowing, landscape patterns, and local vegetation on adult mosquito populations. *Urban Ecosystems* 22: 827–839. doi: 10.1007/s11252-019-00857-7
- Turo KJ**, Gardiner MM (2019) From potential to practical: Conserving bees in urban public greenspace. *Frontiers in Ecology and the Environment* 17: 167-175. doi: 10.1002/fee.2015
- Todd KJ**, Gardiner MM, Lindquist ED (2016) Mass flowering crops as a conservation resource for wild pollinators (Hymenoptera: Apoidea). *Journal of Kansas Entomological Society* 89: 158–167. doi: 10.2317/0022-8567-89.2.158

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Wagner DL, **Todd KJ** (2016) New ecological assessment for the emerald ash borer: A cautionary tale about unvetted host-plant literature. *American Entomologist* 62:26–35. doi: 10.1093/ae/tmw005

Wagner DL, **Todd KJ** (2015) Ecological impacts of emerald ash borer. In: Van Driesche RG, Reardon RC (eds) *Biology and control of emerald ash borer*. USFS Technology Transfer Bulletin FHTET-2014-09, USDA Forest Service, Morgantown, WV, pp 15–62.

GRANTS & FUNDING: TOTAL (\$ 398,997)

2021-2023	USDA, NIFA Postdoctoral Fellowship, Rutgers University	\$164,326
2019-2020	Presidential Fellowship, The Ohio State University (OSU) <ul style="list-style-type: none">○ Dissertation year support; “most competitive and prestigious scholarly recognition provided by the Graduate School” at OSU	\$32,000
2017-2020	SEEDS: The CFAES Research Competitive Grants Program, OSU <ul style="list-style-type: none">○ Collaborative grant providing matching funds to 2016 NCR-SARE grant○ Ranked 1/61 peer-reviewed grant proposals	\$9,775
2016-2019	National Science Foundation Graduate Research Fellowship <ul style="list-style-type: none">○ Three-year fellowship and tuition scholarship (\$46,000 per year)○ One of 17,000 national applicants considered (~12% acceptance rate)	\$138,000
2016-2019	North Central Region SARE Graduate Student Grant <ul style="list-style-type: none">○ Collaborative grant with graduate student Rodney T. Richardson	\$11,930
2015-2016	Ohio 4-H and OSU Entomology Department Research Assistantship <ul style="list-style-type: none">○ One-year research assistantship funded to enable the development and publication of new Ohio 4-H Entomology curriculum	\$18,414
2014-2015	OSU College of Food, Agriculture and Environmental Science Fellowship	\$24,552
2009-2013	Provost’s Scholarship, Messiah College	\$48,000

HONORS & AWARDS (21)

- 2021** *Lowell R. “Skip” Nault Graduate Student Research Award*, OSU Entomology Department
J. H. Comstock Award, North Central Branch (NCB), Entomological Society of America (ESA)
- 2020** *David J. Horn Graduate Student Service Award*, OSU Entomology Department
First place, DeLong Research Talk Competition, OSU Entomology Department
- 2019** *Educational Project Award*, North Central Branch, Entomological Society of America (ESA)
 - Sponsored by the Certified Entomologists of Mid-America*President’s Prize, Third place Ten-minute talk*, North Central Branch, ESA
- 2018** *President’s Prize, First place Ten-minute talk*, ESA
Second place, PhD research poster, College of Food, Agricultural, and Environmental Science (CFAES) research conference, OSU
Ray Travel Award Graduate Student Scholarship, OSU
- 2017** *Graduate Student Scholarship*, North Central Branch, ESA
First place President’s Prize, Three-minute “Lightning Bug” talk, ESA

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First place President's Prize, PhD Poster, ESA

Ray Travel Award Graduate Student Scholarship, OSU

Pollinator Video Award, P-IE pollinator video contest, Entomological Society of America

- Collaborative video project with three mentored undergraduate students

2016 *James E. Tew Graduate Student Extension Award, OSU Entomology Department*

First place President's Prize, PhD Ten-minute talk, North Central Branch, ESA

Second Place President's Prize, PhD Ten-minute talk, International Congress of Entomology

2015 *First place, DeLong Research Talk Competition, OSU Entomology Department*

Second Place President's Prize, MS Ten-minute talk, ESA

First place, MS Ten-minute talk, Ohio Valley Entomological Association

2014 *First place, BS Ten-minute talk, Ohio Valley Entomological Association*

2012 *Newman Civic Fellows Award, for undergraduate commitment to service, Messiah College*

RESEARCH EXPERIENCE

USDA NIFA Postdoctoral Research Fellow, Rutgers University

Sept 2021 – Aug 2023

Dr. Rachael Winfree's Pollinator Biodiversity Lab

New Brunswick, NJ

- Awarded USDA NIFA grant funding to develop climate resilient forest management for wild pollinators of spring fruit crops

NSF Graduate Research Fellow, The Ohio State University

Aug 2014 – May 2021

Dr. Mary Gardiner's Ag-Urban Landscape Ecology Lab

Columbus, OH

- Led several research studies in Cleveland, OH to assess how urban greenspace design and landscape context influence pollinator diversity, abundance, and reproductive health
- Collaborated with a team of graduate students to design sampling protocol and monitor plant diversity, biomass, and distribution across 64 urban research sites
- Evaluated landscape patterns of greenspace size and connectivity with FRAGSTATs and ARC-GIS

Laboratory Technician, University of Connecticut

Nov 2013 – Aug 2014

Dr. David Wagner's Entomology Lab

Storrs, CT

- Digitally curated bee specimens, including labeling and databasing of bees through the American Museum of Natural History's plant bug Planetary Biodiversity Inventory (PBI)
- Assisted lepidopteran rearing, including record keeping and organization of rearing room

Research Field Technician, Michigan State University

June 2013 – Sep 2013

Dr. Rufus Isaacs's Berry Crops Entomology Lab

East Lansing, MI

- Evaluated wildflower habitat plantings in agroecosystems for effectiveness in attracting and supporting native pollinator communities
- Monitored bee foraging by collecting bees from flowers and identifying prairie blooms
- Coordinated with Rutgers University and the University of California-Davis to develop protocol for local NRCS staff to assess future wildflower plantings

Laboratory Intern, Pennsylvania State University

June 2012 – Sep 2012

Dr. David Biddinger's Tree Fruit Entomology Lab

Biglerville, PA

- Assessed native bee's dispersion into apple orchards with passive traps, pinned specimens
- Examined apple tree's mite infestations by brushing leaves and counting mites microscopically
- Deployed brown marmorated stink bug egg masses at forest edges for parasitism monitoring

MEMBERSHIPS

Feb 2019 – <i>Present</i>	Ecological Society of America
Feb 2015 – <i>Present</i>	Entomological Society of America
Sep 2014 – May 2021	The Ohio State University's Entomology Graduate Student Association
Nov 2014 – May 2020	Au Sable Institute for Environmental Studies Graduate Fellows Program
Apr 2015 – Apr 2016	Kansas Entomological Society
Oct 2014 – Oct 2017	Ohio Valley Entomological Association

ACADEMIC PRESENTATIONS: ORAL (* INVITED)

1. **Turo KJ**, Spring MR, Sivakoff FS, Delgado de la Flor YA, Gardiner MM (2020) Bee community form and function in urban vacant land: Implications for managing pollinator friendly cities. Annual meeting of the North Central Branch of the Entomological Society of America; 6 April 2020; virtual presentation.
2. **Turo KJ**, Spring MR, Sivakoff FS, Delgado de la Flor YA, Gardiner MM (2020) Bee community form and function in urban vacant land: Implications for managing pollinator friendly cities. Department Seminar, Department of Entomology, The Ohio State University; 4 March 2020; Columbus, OH.
3. **Turo KJ**, Gardiner MM (2019) Landscape connectivity drives effective urban bee conservation. Annual meeting of the North Central Branch of the Entomological Society of America; 16 March 2019; Cincinnati, OH.
4. * **Todd KJ**, Burkmann C, Delgado de la Flor Y, Parker D, Prazjner S, Riley C, Spring MR, Yang L, Gardiner MM (2017) Little insects, big city: A case study in large-scale collaborative research. Entomological Society of America; 8 November 2017; Denver, CO.
 - a. *ESA Student Symposium*: The power of cooperation: Collaborations that facilitate advancements in science
5. **Todd KJ**, Gardiner MM (2017) Building a better urban bee environment. Entomological Society of America; 6 November 2017; Denver, CO.
6. **Todd KJ**. (2017) Local and landscape drivers of urban Hymenopteran biodiversity and food web structure. Department Seminar, Department of Entomology, The Ohio State University; 18 January 2017; Columbus, OH.
7. **Todd KJ**, Gardiner MM (2016) Urban landscape heterogeneity influences green space value for cavity nesting bees and wasps. International Congress of Entomology; 26 September 2016; Orlando, FL.
8. **Todd KJ**, Gardiner MM, Lindquist ED (2016) Mass flowering crops as a conservation resource for wild pollinators. MS to PhD Transition Seminar, Department of Entomology, The Ohio State University; 24 August 2016; Columbus, OH.
9. **Todd KJ**, Gardiner MM (2016) Urban landscape heterogeneity influences green space value for cavity nesting bees and wasps. Annual meeting of the North Central Branch of the Entomological Society of America; 7 June 2016; Cleveland, OH.
10. **Todd KJ**, Gardiner MM (2015) Urban plant heterogeneity influences communities of cavity nesting bees and wasps. Entomological Society of America; 16 November 2015; Minneapolis, MN.

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11. **Todd KJ**, Gardiner MM (2015) Urban plant heterogeneity influences communities of cavity nesting bees and wasps. Department Seminar, Department of Entomology, The Ohio State University; 11 November 2015; Columbus, OH.
12. **Todd KJ**, Gardiner MM (2015) Urban plant heterogeneity influences communities of cavity nesting bees and wasps. Ohio Valley Entomological Association Conference Student Competition; 23 October 2015; Lexington, KY.
13. **Todd KJ**, Gardiner MM, Lindquist ED (2013) Native pollinator (Hymenoptera: Apoidea) conservation value of *Helianthus annuus* plantings at variable densities. Ohio Valley Entomological Association Conference Student Competition; 31 October 2014; Columbus, OH.

INTERNATIONAL

14. **Turo KJ**, Gardiner MM (2018) Building a better urban bee environment. Entomological Society of America, Entomological Society of Canada; 11 November 2018; Vancouver, BC, CA.
15. * **Todd KJ**, Gardiner MM (2017) Building better bee habitat: Local and landscape drivers of Hymenopteran nesting. Bommarco Laboratory group, Swedish University of Agricultural Sciences; 19 September 2017; Uppsala, Sweden.

ACADEMIC PRESENTATIONS: POSTER

1. **Turo KJ**, Spring MR, Sivakoff FS, Delgado de la Flor YA, Gardiner MM (2020) Bee community form and function in urban vacant land: Implications for managing pollinator friendly cities. College of Food, Agricultural, and Environmental Science (CFAES) annual research conference; 21 April 2020; virtual poster.
2. **Turo KJ**, Gardiner MM (2018) Building better bee habitat: Local and landscape drivers of Hymenopteran nesting. College of Food, Agricultural, and Environmental Science (CFAES) annual research conference; 27 April 2018; Wooster, OH.
3. **Todd KJ**, Gardiner MM (2017) Building better bee habitat: Local and landscape drivers of Hymenopteran nesting. Entomological Society of America; 6 November 2017; Denver, CO.
4. **Todd KJ**, Gardiner MM (2017) Building better bee habitat: Local and landscape drivers of Hymenopteran nesting. Protecting Pollinators in Urban Landscapes Conference; 10 October 2017; Traverse City, MI.
5. **Todd KJ**, Gardiner MM (2016) Urban landscape heterogeneity influences green space value for cavity nesting bees and wasps. The Ohio Agricultural Research and Development Center (OARDC) Annual Research Conference; 21 April 2016; Wooster, OH.

TEACHING & MENTORING EXPERIENCE

Guest Lecturer: ENTMLGY 2200 “Beekeeping”

The Ohio State University

Jan 2020, 2021

Columbus, OH

- Created lecture and activities for two sections of a “Native Pollinator” lab to discuss native bee diversity and compare native bee anatomy, life history, and pollinator function with honey bees

Teaching Assistant: BIOLOGY 1101 “Introductory Biology”

The Ohio State University

Aug 2019—Dec 2019

Columbus, OH

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- Designed and taught original activities for weekly recitations (45 mins) to supplement material
- Instructed two 3-hour labs (24 students/lab) without primary instructor present
- Held office hours, attended weekly TA meetings and lecture, and graded assignments

Co-Instructor: ENTMLGY 8800 “Graduate Student Training Seminar”

Aug 2018—Dec 2018

The Ohio State University

Columbus, OH

- Co-designed and instructed 1 credit Graduate level course with Dr. Mary Gardiner
- Mentored new Entomology graduate students and oriented them to university and department
- Discussed graduate school expectations, productivity tools, C.V. building, contemporary academic issues (mental health, discrimination, implicit bias), and successful approaches to the land grant mission of research, teaching, and extension

OSU Entomology Mentoring Program

2016 – 2018

- Developed and co-led group mentoring sessions for students considering graduate school
- Met individually with undergraduate mentees (4 to date) to give feedback on topics including: GRE preparation, contacting potential advisers, application materials, and interviewing

Guest Lecturer: ENTMLGY 1101 “Insect Biology”

17 Nov 2016

The Ohio State University

Columbus, OH

- Created lecture on “Insects in Medicine and Research” to discuss the historical relationship of insects and medicine, best practices for designing experimental studies, and research biases
- Led active learning project to evaluate honey’s medicinal properties based on primary literature

4-H Entomology Curriculum Developer

Sep 2015—Dec 2016

The Ohio State University and Ohio 4-H

Columbus, OH

- Directed a collaborative advisory committee of entomologists, extension specialists, and Ohio 4-H staff to create new curriculum and Ohio 4-H Entomology website (<https://ohio4h.org/insects>)
- Developed curriculum scope and sequence and authored three entomology project books and collection handbook encompassing beginner to advanced material
- Co-wrote and directed 17 educational videos promoting entomology techniques and careers

Environmental Educator (K-8th Grade)

Dec 2013 – Aug 2014

Denison Pequotsepos Nature Center

Mystic, CT

- Facilitated weekly environmental science after-school programs in underprivileged school systems, discussing entomology, ornithology, herpetology, animal tracks
- Led pond ecosystem, shorebirds, soils, and botany field trips highlighting biodiversity within Connecticut, ecological processes and conservation of local flora and fauna
- Instructed week-long summer nature camp courses on Herpetology and Natural History

ACADEMIC SERVICE

2020	<i>Scientific Reports</i>	Manuscript Reviewer
2020	<i>Ecosphere— Ecological Society of America Journal</i>	Manuscript Reviewer
2020	<i>Journal of Agriculture and Urban Entomology</i>	Manuscript Reviewer
2019-21	<i>OSU Entomology Graduate Student Association</i>	Awards Committee Rep.
2018-22	<i>International Congress of Entomology 2022— Helsinki, Finland</i>	Symposium Organizer
2018-19	<i>OSU Entomology Graduate Student Association</i>	Graduate Studies Committee Rep.

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2018	<i>SEEDS: The CFAES Research Competitive Grants Program</i>	Grant Reviewer
2017-19	<i>Entomological Society of America, Pollinator Committee</i>	Graduate Student Rep.
2016-18	<i>OSU Entomology Graduate Student Association</i>	Curriculum Committee Rep.
2016-18	<i>OSU Entomology Undergraduate Mentoring Program</i>	Co-organizer and Mentor
2015-17	<i>Ohio Valley Entomological Association</i>	Executive Committee Member
2015-16	<i>OSU Entomology Graduate Student Association</i>	Undergraduate Affairs Committee Rep.

EXTENSION PUBLICATIONS

1. **Turo KJ** (2018) *Insect Adventures I*. 4-H Project Book 644. Ohio State University Extension. Columbus, OH. 37 pp. <https://ohio4h.org/insects/insect-adventures-1>
2. **Turo KJ** (2018) *Insect Adventures II*. 4-H Project Book 645. Ohio State University Extension. Columbus, OH. 44 pp. <https://ohio4h.org/insects/insect-adventures-2>
3. **Turo KJ** (2019) *Insect Adventures III*. 4-H Project Book 646. Ohio State University Extension. Columbus, OH. 49 pp. <https://ohio4h.org/insects/insect-adventures-3>
4. **Turo KJ** (2021) *Insect Collection Guide*. 4-H Project Book 644R. Ohio State University Extension. Columbus, OH. 32 pp. <https://ohio4h.org/insects/collecting>

VIDEOS

5. **Turo KJ**, Parker DM, Chen H, Mabin MD, Johnson N, Spring MR, Delgado de la Flor YA, Neisham K, Yang L, Gardiner MM, Gott R, Justus E, and Shetlar D. *I'm an Entomologist because...* OSU Extension Professionals Youtube Channel. https://youtu.be/UGS_QMxe7XI
6. **Turo KJ** (2019) *How to make a pan trap*. OSU Extension Professionals Youtube Channel. <https://youtu.be/GUSXJBGYwtk>
7. **Turo KJ**, Delgado de la Flor YA (2019) *How scientists use pitfall and pan traps*. OSU Extension Professionals Youtube Channel. <https://youtu.be/d67vPoEbGu4>
8. **Turo KJ** (2019) *How to use an insect net*. OSU Extension Professionals Youtube Channel. <https://youtu.be/ewj2qyFZfGs>
9. **Turo KJ** (2019) *Tips and tricks for safely transferring insects from a net*. OSU Extension Professionals Youtube Channel. <https://youtu.be/Hj33kyTHjGM>

EXTENSION PRESENTATIONS

1. **Turo KJ** (2019) *Conservation in the city? What we've learned about creating bee habitat in Cleveland, OH*. Insect University, Franklin County Extension; 30 October 2019; Columbus, OH.
2. **Turo KJ** (2019) *Big city, little bees: Cleveland as a resource for native pollinator conservation*. Cuyahoga County Extension; 12 August 2019; Cleveland, OH.
3. **Todd KJ** (2016) *Bees in your backyard: Native pollinators of Ohio*. Cuyahoga County Extension; 19 May 2016; Cleveland, OH.
4. **Todd KJ** (2016) *Creating habitat on vacant properties: A Cleveland case study*. Wayne County Extension; 18 February 2016; Wooster, OH.

EXTENSION & OUTREACH EVENTS

2020	7 th Son Brewery/OSU Entomology, Bugs n' Brews Family Insect Day	<i>Volunteer</i>
2019	OSU Animal Welfare Club Meeting	<i>Presenter</i>
2018	OSU 'Pollinator Investigators' Citizen Science Workshop	<i>Co-organizer, Presenter</i>
2018	OSU 'Applying to Graduate School' Workshop	<i>Co-creator, Presenter</i>
2017-18	Cleveland Botanical Gardens and Green Corps	<i>Entomology Instructor</i>
2016, 17	OSU Museum of Biological Diversity Open House	<i>Insect Collection Volunteer</i>
2015-19	OSU Entomology, Annual Insect Night Walk	<i>Co-organizer, Volunteer</i>
2015-16	OSU Entomology, 'A Bug's World' Elementary School Workshop	<i>Volunteer</i>
2015	Athens Soil and Water Conservation District, Bee Workshop	<i>Presenter</i>
2015	State of Ohio Science Olympiad: Entomology Event	<i>Exam Creator, Proctor</i>
2014-15	OSU Chadwick Arboretum	<i>Tree Inventory Volunteer</i>
2014	Cleveland Metroparks Backyard Biodiversity Bash	<i>Presenter</i>
2014	Denison Pequotsepos Nature Center, Bee Conservation Workshop	<i>Presenter</i>
2013-14	Au Sable Institute of Environmental Studies	<i>Alumni Board Member</i>
2013	Michigan State University BeePalooza	<i>Volunteer, Presenter</i>

ADDITIONAL EXPERIENCE: WORKSHOPS

- 2016 – **University Institute for Teaching and Learning (UITL), The Ohio State University**
Present
1. Inclusive Teaching: Micro and Macro Aggressions in the Classroom (2/25/2020)
 2. Designing Transparent Writing Assignments for Inclusive Teaching (2/24/2020)
 3. Graduate TA Toolkit: Foundations of an Inclusive Classroom (11/19/2019)
 4. InterACT — What Is Your Question? Helping Students Problem Solve In and Out of the College Classroom (11/19/2019)
 5. Supporting LGBTQ Students in Classrooms (11/13/2019)
 6. Graduate TA Toolkit: Student Assessment (10/22/2019)
 7. Technology-Enhanced Active Learning (10/22/2018)
 8. From Distracted to Productive: Time Management Strategies (4/9/2018)
 9. Metacognition: The Key to Student's Accelerated Success (2/17/ 2017)
 10. Leading Discussion in Class (2/29/2016)
- 2020 **University Institute for Teaching and Learning (UITL), The Ohio State University**
- Applied for and awarded Teaching Endorsement for Inclusive Teaching on academic transcripts for pursuing professional development and reflecting on this topic
- 2019 **REACH Suicide Prevention Program, The Ohio State University**
- Participated in program to advance campus culture of care and recognize suicide signs
- 2018 **Course Design Institute (CDI), The Ohio State University**
- Applied for and selected to attend a week-long workshop and create a future course, "Reconciliation Ecology: Creating places and spaces to enhance biodiversity where people live and work"

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- Awarded Teaching Endorsement for Course Design on academic transcripts
- 2018 **Diversity and Implicit Bias Awareness Program, The Ohio State University**
- Pursued and received Diversity Training Certificate of Completion for attending 8 hours of professional development regarding implicit bias, race, ethnicity, gender, sexuality
- 2013 **Computing for Data Analysis, Johns Hopkins University, Coursera**
- Completed month-long introductory online course on R-programming
 - Achieved Statement of Accomplishment certificate 31 October 2013

REFERENCES

Dr. Mary Gardiner, Professor of Entomology

The Ohio State University, Columbus, OH • (614) 292-8209 • gardiner.29@osu.edu

Dr. Carol Anelli, Professor of Entomology

The Ohio State University, Columbus, OH • (614) 292-9325 • anelli.7@osu.edu

Jane Wright, Extension Associate – 4-H Curriculum Manager

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