




# KATHERINE J. TURO

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## ACADEMIC POSITIONS

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RUTGERS UNIVERSITY *Sept 2021 – Present*  
USDA NIFA Postdoctoral Research Fellow New Brunswick, NJ  
Department of Ecology, Evolution, and Natural Resources  
Advisor: Dr. Rachael Winfree

## EDUCATION

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PHD ENTOMOLOGY *May 2021*  
The Ohio State University Columbus, OH  
Advisor: Dr. Mary M. Gardiner

BS ENVIRONMENTAL SCIENCE *May 2013*  
Messiah University Mechanicsburg, PA  
College Honors Program, Biology Honors Program

BA ENGLISH, Writing Concentration *May 2013*  
Messiah University Mechanicsburg, PA

## RESEARCH PUBLICATIONS ( 1 2 )

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IMPACT FACTOR: [Google Scholar](#) (citations 197, h-index 8); \* undergraduate co-author

Bell KL, **KJ Turo**, A Lowe, K Nota, A Keller, F Encinas-Viso, L Parducci, R Richardson, R Legget, B Brosi, K Burgess, Y Suyama, N deVere (2022) Plants, pollinators, and their interactions under global ecological change: The role of pollen DNA metabarcoding. *Molecular Ecology (in press)*.

**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 CR, **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

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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

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.

## S U B M I T T E D ( 2 )

Perry KI, Bahlai CA, Assal TJ, Riley CB, **Turo KJ**, Taylor L, Delgado de la Flor YA, Sivakoff FS, Gardiner MM (2022) Landscape change and alien invasions drive shifts in native lady beetle communities over a century (*in revision*) Preprint: <https://www.biorxiv.org/content/10.1101/2022.04.21.489069v1>

**Turo KJ**, Richardson RT, \*Frabotta M, Johnson RM, Gardiner MM (2022) Urban greenspace connectivity and bee species identity mediate pollinator foraging and nesting productivity (*in review*).

## **GRANTS & FUNDING: TOTAL (\$ 3 9 8 , 9 9 7 )**

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2021-2023	USDA, NIFA Postdoctoral Research Fellowship ○ Ranked “Outstanding”, in top 5% of submitted proposals	<b>\$164,326</b>
2019-2020	Presidential Fellowship, The Ohio State University (OSU) ○ Dissertation year support; “most competitive and prestigious scholarly recognition provided by the Graduate School” at OSU	<b>\$32,000</b>
2017-2020	SEEDS: The CFAES Research Competitive Grants Program, OSU ○ Ranked 1/61 peer-reviewed grant proposals	<b>\$9,775</b>
2016-2019	National Science Foundation Graduate Research Fellowship	<b>\$138,000</b>
2016-2019	North Central Region SARE Graduate Student Grant ○ Collaborative grant with graduate student Rodney T. Richardson	<b>\$11,930</b>
2015-2016	Ohio 4-H and OSU Entomology Department Research Assistantship	<b>\$18,414</b>
2014-2015	OSU College of Food, Agriculture and Environmental Science Fellowship	<b>\$24,552</b>

## HONORS & AWARDS ( 2 2 )

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- 2022** *Shortlisted for Southwood Prize for Early Career Researchers, Journal of Applied Ecology*
- 2021** *J. H. Comstock Award, outstanding graduate student of the year for the North Central Branch (NCB), Entomological Society of America (ESA)*  
*Lowell R. "Skip" Nault Graduate Student Research Award, OSU Entomology Department*
- 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) and 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, Entomological Society of America*  
*Second place, PhD research poster, College of Food, Agricultural, and Environmental Science (CFAES) research conference, OSU*  
*Edward J. Ray Travel Award for Scholarship and Service, Council of Graduate Students, OSU*
- 2017** *Graduate Student Scholarship, North Central Branch, ESA*  
*First place President's Prize, Three-minute "Lightning Bug" talk, ESA*  
*First place President's Prize, PhD Poster, ESA*  
*Edward J. Ray Travel Award for Scholarship and Service, Council of Graduate Students, 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 University*

## ACADEMIC PRESENTATIONS ( 2 1 ) \* I N T E R N A T I O N A L

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1. \***Turo KJ**, Reilly JR, Magrach A, Giménez-García A, Winfree R (2022) A global assessment of pollinator limitation in agriculture systems: Prevalence, risks, and the relative importance of wild insects versus honey bees. Ecological Society of America Annual Meeting; 14 August 2022; Montreal, QC, CA.
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. Annual meeting of the North Central Branch of the Entomological Society of America; 6 April 2020; virtual.

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3. **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.
4. **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.
5. \* **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.
6. **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. *Invited talk in ESA Student Symposium*: The power of cooperation: Collaborations that facilitate advancements in science
7. **Todd KJ**, Gardiner MM (2017) Building a better urban bee environment. Entomological Society of America; 6 November 2017; Denver, CO.
8. \* **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.
9. **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.
10. **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.
11. **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.
12. **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.
13. **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.
14. **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.
15. **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.
16. **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.

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## POSTER PRESENTATIONS

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 EXPERIENCE

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### **Guest Lecturer: EENR 11:216:317 Conservation Ecology**

*Mar 2022*

Rutgers University

New Brunswick, NJ

- Facilitated discussion and debate of primary research articles concerning habitat loss and the positive influence of habitat fragmentation (SLoSS, Miller-Rushing et al. 2019)
- Assisted small groups in applying ecological theories from Tschartnke et al. 2012 to a hypothetical land change scenario and its consequences for local biodiversity

### **Guest Lecturer: ENTMLGY 16:370:525 Insect Ecology**

*Feb 2022*

Rutgers University

New Brunswick, NJ

- Summarized development of Landscape Ecology discipline, techniques for measuring landscape patterns, and primary research on pollination and biocontrol services at landscape scales
- Created in class activity focused on theoretical impacts of urbanization on insect communities

### **Guest Lecturer: ENTMLGY 2200 Beekeeping**

*Jan 2020, 2021*

The Ohio State University

Columbus, OH

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

### **Teaching Assistant: BIOLOGY 1101 Introductory Biology**

*Aug 2019—Dec 2019*

The Ohio State University

Columbus, OH

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

### **Co-Instructor of Record: ENTMLGY 8800 Graduate Student Training Seminar**

*Aug 2018—Dec 2018*

The Ohio State University

Columbus, OH

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- Co-designed and instructed 1 credit Graduate level course with Dr. Mary Gardiner
- 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

## **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
- Wrote and directed 17 educational videos promoting entomology techniques and careers

## **Environmental Educator (K-8<sup>th</sup> Grade)**

Dec 2013 – Aug 2014

Denison Pequotsepos Nature Center

Mystic, CT

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

## **TEACHING PROFESSIONAL DEVELOPMENT**

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2021 – **Office of Instructional Design, Rutgers University**

Present

1. Assessment Strategies That Support Teaching and Learning (6/16/2022)
2. Creating Accessible Online Content: Text, Documents, Images, and Video (11/17/2021)
3. Culturally Responsive Course Design and Teaching Strategies (10/26/2021)

2016 – **Michael V. Drake Institute for Teaching and Learning, The Ohio State University**

2021

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. Improving 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)

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- 2020 **Michael V. Drake Institute for Teaching and Learning, 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**
- Recognized suicide signs in coworkers and students, advanced culture of care
- 2018 **Course Design Institute (CDI), The Ohio State University**
- Applied for and awarded *Teaching Endorsement for Course Design* on academic transcripts
  - Selected to attend a week-long workshop to create a future class: “*Reconciliation Ecology: Creating places and spaces to enhance biodiversity where people live and work*”
- 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

## STUDENT MENTORING

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**STEM Network Mentor, Rutgers University** *Feb 2022 – present*

- Served as a mentor to increase interest among underrepresented students in pursuing STEM
- Met monthly with mentee (first-generation college student); provided feedback on applications, discussed goals and summer research opportunities

**Entomology Mentoring Program, The Ohio State University** *2016 – 2018*

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

**Undergraduate summer research, The Ohio State University** *2015 – 2018*

- Supervised, mentored 18 research students (2015: n=6, 2016: n=5, 2017: n=6, 2018: n=1)
- Organized training for ecological techniques (e.g., plant and insect collection and monitoring)
- Created weekly schedules and daily goals, allocated resources to unique teams
- Provided career workshops, CV reviews, letters of recommendation for graduate school
- Assisted three students in applying for and winning the Pollinator Video Award, Ent. Soc. America

## ACADEMIC SERVICE

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### EDITORIAL

Subject Matter Editor — *Agroecosystems Track, Ecosphere*

July 2022-2025

### PEER REVIEW

*Ecological Applications, Molecular Ecology, Ecology and Evolution, Journal of Insect Conservation, BioScience, Ecosphere, Scientific Reports, Journal of Agriculture and Urban Entomology*

### PROFESSIONAL ACTIVITIES

2019-21 *OSU Entomology Graduate Student Association*

Awards Committee Rep.

2018-19 *OSU Entomology Graduate Student Association*

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 & OUTREACH EXPERIENCE

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### 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](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/Hj33kyTHiGM>

### PRESENTATIONS

1. **Turo KJ**, Gardiner MM (2021) *UnDisciplined: City living bees*. Utah Public Radio; 9 September 2021; <https://www.upr.org/post/undisciplined-city-living-bees#stream/0>
2. **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.
3. **Turo KJ** (2019) *Big city, little bees: Cleveland as a resource for native pollinator conservation*. Cuyahoga County Extension; 12 August 2019; Cleveland, OH.
4. **Todd KJ** (2016) *Bees in your backyard: Native pollinators of Ohio*. Cuyahoga County Extension; 19 May 2016; Cleveland, OH.
5. **Todd KJ** (2016) *Creating habitat on vacant properties: A Cleveland case study*. Wayne County Extension; 18 February 2016; Wooster, OH.



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## EVENTS AND ACTIVITIES

2022	'Native Pollinators', Anne Demarais Nature Center, Lewisburg, NJ	<i>Presenter</i>
2021	4-H Club Meeting, Milltown and East Brunswick, NJ	<i>Presenter</i>
2020	7 <sup>th</sup> 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>

## REFERENCES

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**Dr. Mary M. Gardiner**, *Professor of Entomology*

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**Dr. Rachael Winfree**, *Professor of Ecology, Evolution, and Natural Resources*

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**Dr. Carol Anelli**, *Professor of Entomology*

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