




# DOUGLAS SPONSLER

## EDUCATION

- 2016 • **The Ohio State University**  
Ph.D. in Entomology  Columbus, Ohio, USA
- 2010 • **Cedarville University**  
B.S. in Biology  Cedarville, Ohio, USA

## PROFESSIONAL EXPERIENCE

- 2020  
|  
present • **Postdoctoral Researcher**  
Department of Animal Ecology and Tropical Biology, University of Würzburg  Würzburg, Germany
- Lead pollinator competition module of EU Project Safeguard
  - Lead study of bumble- bee-wildflower interactions in Berchtesgadener Alps
  - Mentor Ph.D. and MS students
  - Provide statistical support to students and colleagues
  - Organize department seminar program
  - Contribute to classroom- and field-based teaching
- 2018  
|  
2021 • **Research Associate**  
The Academy of Natural Sciences of Drexel University  Philadelphia, PA, USA
- Lead study of urban plant-pollinator ecology in Philadelphia
  - Communicate research to museum visitors
- 2017  
|  
2020 • **Postdoctoral Fellow**  
Pennsylvania State University  University Park, PA, USA
- Design, conduct, and analyze USDA-NIFA-funded field studies of honey bee colony health
  - Lead an NSF-funded multi-institutional working group in the development of a framework for understanding pesticide effects on pollinators
  - Extend research to beekeeper and master gardener organizations
  - Contribute to classroom- and field-based teaching

## PEER-REVIEWED PUBLICATIONS

- in-review • **Next-generation colony weight monitoring: a review and prospectus**  
*Apidologie*  
McMinn-Sauder H [...] Sponsler DB

## CONTACT INFO

Department of Animal Ecology and Tropical Biology

University of Würzburg

Biozentrum C-018

Am Hubland


Würzburg, Germany

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 [github.com/sponslerdb](https://github.com/sponslerdb)

 [ResearchGate](#)

 [Google Scholar](#)

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## INTERESTS

Flower-insect interactions

Bayesian statistics and causal inference

Philosophy of science

Urban ecology

Human-nature interactions

Natural history

## LANGUAGES

English (native)

German (B1 / early intermediate)

- in-review ● **Antimicrobial wound care in an ant society**  
*Nature Ecology and Evolution*  
 Frank ET [...] Sponsler DB, et al
- in-review ● **Distance functions underlying natural enemy within-field distributions: assessing the effects of crop type and adjacent habitats**  
*Proceedings of the Royal Society B*  
 Boetzi FA, Sponsler DB, et al.
- 2023 ● **Pollinator competition and the structure of floral resources**  
*Ecography* (in press)  
 Sponsler DB, Iverson AL, Steffan-Dewenter I
- 2022 ● **Grassy–herbaceous land moderates regional climate effects on honey bee colonies in the Northcentral U.S.**  
*Environmental Research Letters* 17;064036  
 Quinlan G, Sponsler DB, Gaines-Day HR, McMinn-Sauder HBG, Otto CRV, Smart AH, Colin T, Gratton C, Isaacs R, Johnson R, Milbrath MO, Grozinger CM
- 2022 ● **Contrasting patterns of richness, abundance, and turnover in mountain bumble bees and their floral hosts**  
*Ecology* 2022;e3712  
 Sponsler DB, Requier F, Kallnik K, Claßen A, Maihoff AF, Sieger J, Steffan-Dewenter I
- 2022 ● **Floral preferences of mountain bumble bees are constrained by functional traits but flexible through elevation and season**  
*Oikos* 2022;3:e08902  
 Sponsler DB, Requier F, Kallnik K, Claßen A, Maihoff AF, Sieger J, Steffan-Dewenter I
- 2021: ● **Beekeeping in, of, or for the city? A socioecological analysis of urban apiculture in the United States.**  
*People and Nature* 2021;3:550-559  
 Sponsler DB, Bratman EZ
- 2021: ● **Honey bees and neonicotinoid-treated corn seed: contamination, exposure, and effects**  
*Environmental Toxicology and Chemistry* 2021;40:1212-1221  
 Lin C-H, Sponsler DB, Richardson RT, Watters H, Glinski D, Henderson M, Minucci J, Lee EH, Purucker T, Johnson RM.
- 2021: ● **Application of plant metabarcoding to identify diverse honeybee pollen forage along an urban–agricultural gradient**  
*Molecular Ecology* 2021;30:310-323  
 Richardson RT, Eaton T, Lin C-H. Cherry G, Johnson RM, Sponsler DB
- 2020: ● **Characterizing the floral resources of a North American metropolis using a honey bee foraging assay**  
*Ecosphere* 2020;e03102  
 Sponsler DB, Shump D, Richardson RT, Grozinger CM

- 2020: ● **A screening-level assessment of the pollinator-attractiveness of ornamental nursery stock using a honey bee foraging assay**  
*Scientific Reports* 2020;10:831  
 Sponsler DB, Grozinger CM, Richardson RT, Nurse A, Brough D, Patch H, Stoner K
- 2020: ● **County-level analysis reveals a rapidly shifting landscape of bee toxic load on US farmland**  
*Scientific Reports* 2020;10:797  
 Douglas MR, Sponsler DB, Lonsdorf EV, Grozinger CM
- 2020: ● **MetaCurator: A hidden Markov model-based toolkit for extracting and curating sequences from taxonomically-informative genetic markers**  
*Methods in Ecology and Evolution* 2020;11:181-186  
 Richardson RT, Sponsler DB, McMinn-Sauder H, Johnson RM
- 2019: ● **Pesticides and pollinators: a socioecological synthesis.**  
*Science of the Total Environment* 2019;662:1012-1027  
 Sponsler DB, Grozinger CM, Hitaj C, Rundlöf M, Botías C, Code A, Lonsdorf EV, Melathopoulos AP, Smith DJ, Suryanaryanan S, Thogmartin WE, Williams NM, Zhang M, Douglas MR
- 2019: ● **Quantitative multi-locus metabarcoding and waggle dance interpretation reveal honey bee spring foraging patterns in Midwest agroecosystems**  
*Molecular Ecology* 2019;28:686-697  
 Richardson RT, Curtis HR, Matcham EG, Lin C-H, Suresh S, Sponsler DB, Hearon LE, Johnson RM
- 2017: ● **Spatial and taxonomic patterns of honey bee foraging: a choice test between urban and agricultural landscapes**  
*Journal of Urban Ecology* 2017;3:1-7  
 Sponsler DB, Matcham EG, Lin C-H, Lanterman JL, Johnson RM
- 2017: ● **Mechanistic modeling of honey bee pesticide exposure: the missing keystone of honey bee toxicology**  
*Toxicology and Chemistry* 2017;36:871-881  
 Sponsler DB, Johnson RM
- 2015: ● **Honey bee success predicted by landscape composition in Ohio, USA**  
*PeerJ* 2015;3:e838.  
 Sponsler DB, Johnson RM
- 2015: ● **Application of ITS2 metabarcoding to determine the provenance of pollen collected by honey bees in an agroecosystem**  
*Applications in Plant Sciences* 2015;3:1400066  
 Richardson RT, Lin C-H, Sponsler DB, Quijia-Pillajo JO, Goodell K, Johnson RM



## POPULAR PUBLICATIONS

- 2017: ● **Poisoning a society: a superorganism perspective on honey bee toxicology**  
*Bee World* 2017;95:30-32.  
 Sponsler DB, Johnson RM

2015: ● **Honey bee success in Ohio's landscapes**

*Ohio Beekeeping* 2015;4:26-27.

Sponsler DB

2014: ● **Honey bee losses and toxic corn seed dust.**

*Ohio Beekeeping* 2014;3:11-23.

Sponsler DB, Lin C-H, Johnson RM



## GRANTS

2020: ● **Establishing the Penn State honey diagnostics lab to serve Pennsylvania beekeepers (\$47,797)**

Pennsylvania Commonwealth Specialty Crop Block Grant.

Grozinger CM, Sponsler DB

2018: ● **Strengthening urban apiculture, crop production, and biodiversity by understanding the habitat needs of wild and managed bees (\$163,00)**

USDA-NIFA-AFRI Postdoctoral Fellowship

Sponsler DB, Grozinger CM

2017: ● **Location, location, location: developing tools for selection and management of landscapes to promote healthy bee populations (\$9,777)**

North American Pollinator Protection Campaign

Jones TO, Lonsdorf E, Douglas M, Grozinger C, Patch H, Sponsler DB

2017: ● **Impact of urban landscapes on honey bee nutritional resources: a pilot study (\$6,037)**

Apes Valentes

Sponsler DB, Grozinger CM

2015: ● **An Ohio pollen database (\$2,500)**

Ohio State Beekeepers' Association

Sponsler DB, Lin C-H, Richardson RT, Wransky M, Johnson RM

2014: ● **Honey bee nutrition in the Midwestern landscape: assessing pollen diversity and nutrition along an urban-rural gradient in central Ohio (\$2,990)**

Ohio Agricultural Research and Development Center SEEDS Program

Sponsler DB, Johnson RM

2013: ● **Development of a portable hive scale (\$2,000)**

Ohio State Beekeepers' Association

Sponsler DB, Johnson RM

2012: ● **Honey bee success in urban and rural landscapes (\$2,478)**

Ohio State Beekeepers' Association

Sponsler DB, Johnson RM









## FELLOWSHIPS AND AWARDS

- 2018: ● **Environmental Toxicology and Chemistry Best Paper**  
Society for Environmental Toxicology and Chemistry
- 2016: ● **Ray Travel Award**  
The Ohio State University
- 2016: ● **Foundation Scholarship**  
The Foundation for the Preservation of Honey Bees
- 2014: ● **President's Prize runner up (10-min paper)**  
Entomological Society of America
- 2014: ● **James E. Tew Extension Award**  
The Ohio State University
- 2012: ● **President's Prize (10-min paper)**  
Entomological Society of America
- 2014: ● **Director's Fellowship**  
The Ohio Agricultural Research and Development Center



## MENTORING

- 2023  
|  
present ● **MS mentor**  
Co-mentor of Michael Wiesneth  University of Würzburg, Würzburg, Germany
- 2023  
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present ● **MS mentor**  
Co-mentor of Murray Hamilton.  University of Würzburg, Würzburg, Germany
- 2022  
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present ● **MS mentor**  
Co-mentor of Jessica Strehl.  University of Würzburg, Würzburg, Germany
- 2022  
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present ● **Ph.D. mentor**  
External committee member for Austin Martin.  Temple University, Philadelphia, PA
- 2021  
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present ● **Ph.D. mentor**  
Co-advisor of Giulia Mainardi.  University of Würzburg, Würzburg, Germany
- 2017  
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2018 ● **Undergraduate mentor**  
Supervised undergraduate research Dalton Brough.  Penn State University, University Park, PA

2014  
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2015

● **Science Olympiad coach (NSF GK-12)**

📍 Orrville Middle School, Orrville, OH

## 📖 COURSE INSTRUCTION

2016 ● **Pesticides and their Use**  
Developed and taught course 📍 Ohio Agricultural Technical Institute, Wooster, OH

2016 ● **General Entomology**  
Lab instructor 📍 Ohio Agricultural Technical Institute, Wooster, OH

2014 ● **Philosophy of Science**  
Visiting instructor 📍 Central Christian High School, Kidron, OH

2012 ● **Energy Transfer and Development**  
Graduate Teaching Assistant 📍 The Ohio State University, Columbus, OH

## 📖 GUEST LECTURES

2023 ● **Interdepartmental Ring Lecture (Ecology and Time)**  
📍 University of Würzburg, Würzburg, Germany

2020  
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2022 ● **Honey Bee Ecology**  
📍 University of Würzburg, Würzburg, Germany

2021 ● **Animal Pollinators**  
📍 University of Würzburg, Würzburg, Germany

2020  
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2023 ● **R Club (GAMs, Writing in RMarkdown, Causal Inference)**  
📍 University of Würzburg, Würzburg, Germany

2019 ● **Pollination Ecology**  
📍 California State University Fresno, Fresno, CA

2019 ● **Urban Ecology**  
📍 PA Master Naturalist Program, Philadelphia, PA

2019 ● **Introduction to Ecology**  
📍 PA Master Naturalist Program, Philadelphia, PA

2019 ● **Plant-Animal Interactions**  
📍 Drexel University, Philadelphia, PA

2018 ● **Advances in Ecology**  
📍 Pennsylvania State University, State College, PA

2018 ● **Pollinators in Designed Greenspace**  
📍 Pennsylvania State University, State College, PA

2018 ● **Urban Pollinator Ecology**  
📍 Dickinson College, Carlisle, PA.

2017 ● **Honey Bees and Humans**  
📍 Pennsylvania State University, State College, PA

2013  
|  
2015

● **Beekeeping**

📍 The Ohio State University, Columbus, OH



**INVITED PRESENTATIONS**

- 2023: ● **Gardens as pollinator habitat: limitations, potential, and context**  
New Directions in the American Landscape (NDAL) annual symposium (14 Mar 2023) 📍 Philadelphia, PA (virtual)  
Sponsler DB
- 2022: ● **Flowers are food, pollinators are florivores, and what we're doing here is trophic ecology.**  
Protecting Pollinators in Urban Landscapes Conference (11 Oct 2022) 📍 Athens, GA (virtual)  
Sponsler DB
- 2022: ● **Flowers, insects, and people: stewarding an ancient mutualism through greenspace design**  
New Directions in the American Landscape (NDAL) annual symposium (27 Jan 2022) 📍 Philadelphia, PA (virtual)  
Sponsler DB
- 2022: ● **Pollinator competition and the structure of floral resources**  
Lund University (28 Oct 2021) 📍 Lund, Sweden (virtual)  
Sponsler DB
- 2021: ● **Mountain bumble bees and wildflowers exhibit nonlinear patterns of abundance and  $\beta$ -diversity, punctuated by the tree line ecotone**  
Naturalis Biodiversity Center (19 Apr 2021) 📍 Leiden, Netherlands (virtual)  
Sponsler DB
- 2020: ● **Landscape-scale flow/dearth monitoring: a robust method for messy data**  
4th International Conference on Bee and Hive Monitoring (8 Oct 2020) 📍 Missoula, Montana (virtual)  
Sponsler DB
- 2019: ● **Landscape anthecology: a paradigm, a toolkit, and an application**  
American Entomological Society (4 Dec 2019) 📍 Philadelphia, PA  
Sponsler DB
- 2019: ● **Floral resource topography of a North American metropolis revealed by honey bee foraging assay**  
The Academy of Natural Sciences of Drexel University (15 Nov 2019) 📍 Philadelphia, PA  
Sponsler DB
- 2019: ● **Floral resource topography of a North American metropolis revealed by honey bee foraging assay**  
International Conference for Pollinator Biology (20 Jul 2019) 📍 Davis, CA  
Sponsler DB, Shump D, Richardson RT, Grozinger CM.
- 2018: ● **Honey bee foraging in the City of Neighborhoods: Two years of colony weight monitoring reveal spatial and temporal patterns of floral availability**  
Entomological Society of America (14 Nov 2018) 📍 Vancouver, Canada  
Sponsler DB, Shump D, Grozinger CM

- 2018: ● **Plants, pollinators, and people in the City of Neighborhoods**  
Drexel University (27 Sep 2018) 📍 Philadelphia, PA  
Sponsler DB
- 2018: ● **Honey bee foraging patterns and colony weight dynamics reveal ecological heterogeneity of urban landscape**  
Entomological Society of America, Eastern Branch (19 Mar 2018) 📍 Annapolis, MD  
Sponsler DB, Shump D, Grozinger CM
- 2018: ● **Flying needles in a landscape-scale haystack: the challenge of observing foraging bees**  
International Society for Optics and Photonics (SPIE), Penn State student chapter (1 Feb 2018) 📍 University Park, PA  
Sponsler DB
- 2018: ● **Bees, flowers, and people in “The City of Neighborhoods”**  
Franklin and Marshall University (26 Jan 2018) 📍 Lancaster, PA  
Sponsler DB
- 2017: ● **Bees and the urban food scene**  
Entomological Society of America (8 Nov 2017) 📍 Devner, CO  
Sponsler DB, Shump D, Patch HM, Grozinger CM
- 2017: ● **Honey bee landscape ecology**  
Bucks County Community College, first annual science seminar (19 May 2017) 📍 Newtown, PA  
Sponsler DB
- 2017: ● **Integrating landscape and behavior to predict honey bee pesticide exposure**  
Eastern Branch of the Entomological Society of America (20 Mar 2017) 📍 Newport, RI  
Sponsler DB
- 2016: ● **Integrating landscape and behavior to predict honey bee pesticide exposure**  
Workshop on pollinator ecosystem services, Penn State University (20 Dec 2016) 📍 State College, PA  
Sponsler DB
- 2016: ● **Honey bee landscape ecology: foraging, toxic exposure, and apicultural outcomes**  
Miami University of Ohio (4 Dec 2016) 📍 Miami, OH  
Sponsler DB
- 2016: ● **Urban vs. rural beekeeping: the proof is in**  
TriCounty Beekeepers' Association Annual Spring Workshop (5 Mar 2016) 📍 Wooster, OH  
Sponsler DB, Matcham EG, Lin C-H, Johnson RM



## OUTREACH PROGRAMMING

- 2020 ● **Museum Exhibitor**  
Hosted an exhibit of bees diversity for Martin Luther King, Jr Day event.  
📍 The Academy of Natural Sciences of Drexel University, Philadelphia, PA
- 2019 ● **Workshop Instructor**  
Led live honey bee dance decoding activity for museum visitors during the annual BugFest event.  
📍 The Academy of Natural Sciences of Drexel University, Philadelphia, PA



- 2019 ● **Workshop Instructor**  
Five-day USDA-PDSTEP workshop (APPL-RED) training middle and high school teachers to develop project-based lessons on plant-pollinator interactions  
📍 Penn State University, University Park, PA
- 2019 ● **Workshop Instructor**  
Workshop for urban gardeners and farmers to build nests for stem-nesting wild bees.  
📍 Philadelphia Beekeepers Guild, Philadelphia, PA
- 2019 ● **Workshop Instructor**  
Workshop for urban gardeners and farmers to build nests for stem-nesting wild bees.  
📍 Awbury Arboretum, Philadelphia, PA
- 2019 ● **Workshop Instructor**  
Workshop for urban gardeners and farmers to build nests for stem-nesting wild bees.  
📍 Penn State Center, Philadelphia, PA
- 2017 ● **Workshop Instructor**  
Five-day USDA-PDSTEP workshop (APPL-RED) training middle and high school teachers to develop project-based lessons on plant-pollinator interactions  
📍 Penn State University, University Park, PA
- 2015 |  
2016 ● **Workshop Instructor**  
Led field trips to the OSU Department of Entomology for preschool, elementary, and middle school students from Wooster Summer Camp and the Montessori School of Wooster.  
📍 Ohio State University, Wooster, OH
- 2015 ● **Workshop Instructor**  
Co-led stream macroinvertebrate workshop for children at the Family Farm Field Day agricultural fair  
📍 Holmes County, OH
- 2014 ● **Workshop Instructor**  
Taught microscopy techniques for monitoring Nosema infection in honey bees 📍 Ohio State University, Wooster, OH
- 2013 ● **Workshop Instructor**  
Curated, displayed, and discussed bee specimens at the Power of Pollinators short course.  
📍 Ohio State University, Wooster, OH



## SELECTED OUTREACH PRESENTATIONS

- 2019: ● **The world's best forager vs. the world's most complicated landscape: Three years of studying honey bee foraging in Philadelphia**  
Barnstable Beekeepers Association (16 Sep 2019) 📍 Barnstable, MA (virtual)  
Sponsler DB
- 2019: ● **Bees, brews, and brotherly love: the avant garde ecology of Philadelphia**  
Science on Tap, National Mechanics Pub (12 May 2019) 📍 Philadelphia, PA  
Sponsler DB
- 2019: ● **Bees and urban flora: exploring the trophic ecology of ornamentals, remnants, and "weeds" in the city**  
Philadelphia Botanical Club (28 Feb 2019) 📍 Philadelphia, PA  
Sponsler DB

2019:	<ul style="list-style-type: none"> <li> <b>The evolving science and policy of pesticides and pollinators</b>  Pennsylvania Agronomy Education Conference (17 Jan 2019)  Sponsler DB </li> </ul>	Boalsburg, PA
2019:	<ul style="list-style-type: none"> <li> <b>Integrated tools for honey bee landscape ecology</b>  American Honey Producers Association (11 Jan 2019)  Sponsler DB </li> </ul>	Tempe, AZ
2018:	<ul style="list-style-type: none"> <li> <b>What is the place of bees and beekeepers in the ecology of the city?</b>  Philadelphia Honey Festival (9 Sep 2018)  Sponsler DB </li> </ul>	Tempe, AZ
2018:	<ul style="list-style-type: none"> <li> <b>Bees, flowers, and people in “The City of Neighborhoods”</b>  Philadelphia Beekeepers' Guild (19 Apr 2018)  Sponsler DB </li> </ul>	Philadelphia, PA
2017:	<ul style="list-style-type: none"> <li> <b>Bees and the Philly food scene</b>  Philadelphia Beekeepers' Guild (18 May 2017)  Sponsler DB </li> </ul>	Philadelphia, PA
2017:	<ul style="list-style-type: none"> <li> <b>Honey bee landscape ecology</b>  Mountain State Beekeepers' Association (1 May 2017)  Sponsler DB </li> </ul>	Kearneysville, WV
2017:	<ul style="list-style-type: none"> <li> <b>Honey bees and pesticides</b>  Champlaine Valley Beekeepers' Association (29 Apr 2017)  Sponsler DB </li> </ul>	Beekmantown, NY
2016:	<ul style="list-style-type: none"> <li> <b>Honey bee foraging in Ohio's landscapes</b>  TriCounty Beekeepers' Association (31 Aug 2016)  Sponsler DB </li> </ul>	Wooster, OH
2016:	<ul style="list-style-type: none"> <li> <b>Honey bee landscape ecology</b>  American Beekeeping Federation (7 Jan 2016)  Sponsler DB </li> </ul>	Jacksonville, FL
2014:	<ul style="list-style-type: none"> <li> <b>Predatory flies</b>  Secret Lives of Good Garden Bugs Workshop (15 May 2014)  Sponsler DB </li> </ul>	Cleveland, OH
2014:	<ul style="list-style-type: none"> <li> <b>So, how are the bees? Complexity, confusion, and consensus in the world of honey bee health</b>  Cucumber Growers' Meeting, Ohio Agricultural Research and Development Center (25 Mar 2014)  Sponsler DB </li> </ul>	Fremont, OH
2013:	<ul style="list-style-type: none"> <li> <b>Honey bee geography: why thinking outside the box might be the key to helping honey bees</b>  OARDC Staff Advisory Council (22 Oct 2013)  Sponsler DB </li> </ul>	Fremont, OH

- 2013: ● **Honey bee health, colony collapse disorder, and why it matters**  
Congressional Assistants' tour of OARDC (16 Aug 2013)  
Sponsler DB 📍 Wooster, OH
- 2013: ● **An introduction to bee diversity and natural history**  
Master Gardener Pollinator Training Workshop (22 Jun 2013)  
Sponsler DB 📍 Wooster, OH



## PROFESSIONAL TRAINING

- 2022: ● **Data management**  
5-day short course on research data management 📍 German Ecological Society (GfÖ), virtual meeting
- 2018: ● **Open Source Geospatial Data Analysis**  
3-day short course on geospatial data analysis with R and Python  
📍 Socioecological Synthesis Center (SESYNC), Annapolis, MD
- 2016: ● **REACH suicide prevention training**  
Workshop on suicide prevention, designed especially for professors working with undergraduate students  
📍 The Ohio State University, Columbus, OH
- 2016: ● **Introduction to individual-based/agent-based modelling**  
Two-day workshop taught by Volker Grimm, Nika Galic, and Michael Crawford 📍 Towson, MD
- 2016: ● **Diversity and implicit bias awareness training**  
Three-day workshop on mitigating implicit bias, promoting diversity, and aiding distressed individuals  
📍 The Ohio State University, Columbus, OH
- 2011: ● **Native bee identification, ecology, research, and monitoring**  
Five-day course workshop taught by Sam Droege, Alana Taylor, and Rob Jean  
📍 National Conservation Training Center, Shepherdstown, WV



## SERVICE

- 2022  
|  
present ● **Equal Opportunity Committee Member**  
Project Safeguard, European Union Research Consortium
- 2020  
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present ● **Seminar coordinator**  
Department of Animal Ecology and Tropical Biology of the University of Würzburg
- 2019  
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present ● **Executive committee member**  
Philadelphia Botanical Club
- 2019 ● **Diversity and inclusion panel member**  
Penn State University, Department of Entomology
- 2018 ● **Student competition judge**  
Entomological Society of America and the Society for Environmental Toxicology and Chemistry
- 2017 ● **Activity leader, Great Insect Fair**  
Penn State University, Department of Entomology
- 2014  
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2015 ● **Faculty hiring committee member**  
The Ohio State University, Department of Entomology

- 2014  
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2015 • **Summer Research Opportunities Program (SROP) panel member**  
The Ohio State University, Department of Entomology
- 2013  
|  
2015 • **Treasurer, Entomology Graduate Student Association**  
The Ohio State University, Department of Entomology
- 2011 • **Volunteer curatorial assistant**  
The Academy of Natural Science, Philadelphia, PA.
- 2009 • **President, ProTerraForma.**  
Student conservation club, Cedarville University



## SKILLS

- **R statistical software**
- **Directed acyclic graphs and causal inference**
- **Bayesian data analysis**
- **Multivariate statistics**
- **Geographic Information Systems (GIS)**
- **Graphic design and image processing (Inkscape, GIMP)**
- **Beekeeping**
- **DNA metabarcoding**
- **Microscopy**



## GRANT REVIEWING

- 2022 • **European Partnership Biodiversa+**
- 2021 • **Estonian Research Council**
- 2019 • **USDA National Institute of Food and Agriculture (USDA-NIFA)**
- 2014 • **SEEDS, an intramural funding program of the Ohio State University College of Food, Agriculture, and Environmental Science.**



## MANUSCRIPT REVIEWING

- **Apidologie**
- **Agricultural and Forest Entomology**
- **Behavioral Ecology and Sociobiology**
- **Biology**
- **Ecology and Evolution**
- **Ecosphere**
- **Ecological Applications**
- **Frontiers in Ecology and Evolution**
- **Insects**
- **Insect Conservation and Diversity**
- **Journal of Applied Ecology**
- **Journal of Ecology**
- **Journal of Economic Entomology**
- **Molecular Ecology**
- **Oecologia**
- **Oikos**
- **PeerJ**
- **Scientific Reports**
- **Urban Ecosystems**

- **Urban Forestry and Urban Greening**



## SOCIETY MEMBERSHIP

- **The Ecological Society of Germany, Switzerland, and Austria**