

Updated: 1/27/2024

# Meghan Barrett, PhD

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## Appointments

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2024	<b>Assistant Professor of Biology</b> , Indiana University Purdue University Indianapolis
2022-2023	<b>NSF Postdoctoral Research Fellow</b> Primary Institution: California State University Dominguez Hills Secondary Institutions: University of Southern California; Arizona State University
2022-2023	<b>Research Associate</b> , Natural History Museum of Los Angeles County

## Education

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2022	<b>PhD in Biological Sciences</b> , <i>Drexel University</i> Minor: Undergraduate STEM Education
2022	<b>MS in Teaching, Learning, and Curriculum</b> , <i>Drexel University</i> Concentration: Higher Education
2016	<b>BS in Biological Sciences, summa cum laude, second major in English/Creative Writing with Honors College minor</b> , <i>State University of New York at Geneseo</i>

## Additional Training

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2020	<b>Essentials of Online Learning Course</b> , Drexel Online Learning Council
2018	<b>Analysis of Organismal Form Course</b> , University of Manchester, UK, online
2018	<b>The POGIL Project</b> , Drexel University, Philadelphia, PA
2017-2019	<b>Center for the Integration of Teaching, Research, and Learning Network</b> , Associate Level
2017	<b>Bee Course</b> , Southwestern Research Station, Portal, AZ

## Publications

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*Google scholar metrics*: citations: 241; h-index: 9; i10-index: 9

### Published Papers

26. **Barrett M**, Godfrey RK, Schnell A, Fischer B. (2023). Farmed Yellow Mealworm (*Tenebrio molitor*, Coleoptera: Tenebrionidae) Welfare: Species-Specific Recommendations for a Global Industry. *Journal of Insects as Food and Feed*.
25. **Barrett M**, Adcock SJJ. (2023). A robust field of insect welfare science: An integral piece of growing IAFF industry success. *Journal of Insects as Food and Feed*.
24. **Barrett M**, Tigreros N, Davidowitz G, O'Donnell S. (2023). Impact of body size, but not age or acclimation time, on critical thermal maxima in female *Centris pallida* bees (Hymenoptera: Apidae). *Ecological Entomology* 48: 785-789.
23. Crump A, Gibbons M, **Barrett M**, Birch J, Chittka L. (2023). Is it time for insect researchers to consider their subjects' welfare? *PLoS Biology* 21: e3002138.
22. **Barrett M**, O'Donnell S. (2023). Individual reflectance of solar radiation confers a thermoregulatory benefit to dimorphic male bees (*Centris pallida*) using distinct microclimates. *PLoS ONE* 18: e0271250.

21. **Barrett M**, Fischer B. (2023). Challenges in farmed insect welfare: Beyond the question of sentience. *Animal Welfare*, 32: e4.
20. **Barrett M**, Fischer B, Buchmann S. (2023). Informing policy and practice on insect pollinator declines: Tensions between conservation and animal welfare. *Frontiers in Ecology and Evolution*, 10: 1071251.
19. **Barrett M**, Johnson MG. (2022). *Centris pallida* (Hymenoptera: Apidae) male body size decreases across five decades. *Ecological Entomology*, 48: 154-163.
18. Gibbons M, Crump A, **Barrett M**, Sarlak S, Birch J, Chittka L. (2022). Can insects feel pain? A review of the neural and behavioral evidence. *Advances in Insect Physiology*, 63: 155-229.
17. O'Donnell S, Bulova S, **Barrett M**. (2022). Brain plasticity indicates key cognitive demands in an animal society: caste comparisons in dampwood termites. *Insectes Sociaux*, 69: 307-314.
16. **Barrett M**, Chia SY, Fischer B, Tomberlin JK. (2022). Farmed Black Soldier Fly, *Hermetia illucens* (Diptera: Stratiomyidae), Welfare Considerations: A Model for the Insects as Food and Feed Industry. *Journal of Insects as Food and Feed*, 9: 119-148.
15. **Barrett M**, Godfrey RK, Sterner EJ, Waddell EA. (2022). Impacts of development and adult sex on brain cell numbers in the Black Soldier Fly, *Hermetia illucens* L. (Diptera: Stratiomyidae). *Arthropod Structure and Development*, 70: 101174.
14. Baudier K, Bennett M, **Barrett M**, Cossio F, O'Donnell S, Fewell J, Harrison J, Pavlic T. (2022). Soldier neural architecture is flexibly modality-specialized but poorly predicted by repertoire size in the stingless bee *Tetragonisca angustula*. *Journal of Comparative Neurology*, 530: 672-682.
13. **Barrett M**, Kang A, Gomez A, Kainth D, O'Donnell S. (2021). Nest architecture, prey, and body size in *Isodontia auripes* (Fernald) at two sites in New York (Hymenoptera: Sphecidae). *Journal of the Kansas Entomological Society*, 94: 199-212.
12. Caponera V, Aviles L, **Barrett M**, O'Donnell S. (2021). Behavioral attributes of social groups determine the strength and direction of selection on neural investment. *Frontiers in Ecology and Evolution*, 9: 733228.
11. O'Donnell S, Bulova S, **Barrett M**. (2021). Experience-expectant brain plasticity corresponds to caste-specific abiotic challenges in dampwood termites (*Zootermopsis angusticollis* and *Z. nevadensis*). *Science of Nature*, 108: 57.
10. **Barrett M**. (2021). The first case of gynandromorphy in *Centris pallida* (Hymenoptera: Apidae: Centridini). *Journal of Melittology*, 104: 1-8.
9. **Barrett M**, Schneider S, Sachdeva P, Gomez A, Buchmann S, O'Donnell S. (2021). Neuroanatomical differentiation associated with alternative reproductive tactics in male arid land bees, *Centris pallida* and *Amegilla dawsoni*. *Journal of Comparative Physiology A*, 207: 497-504.
8. **Barrett M**, McNair C, Caponera V, O'Donnell S, Marenza D. (2020). Potential for use of erythritol as a socially-transferrable ingested insecticide for ants (Hymenoptera: Formicidae). *Journal of Economic Entomology*, toaa019.
7. **Barrett M**<sup>1</sup>, Fiocca K<sup>1</sup>, Waddell E, McNair C, O'Donnell S, Marenza D. (2019). Larval mannitol diets increase mortality, prolong development, and decrease adult body sizes in fruit flies (*Drosophila melanogaster*). *Biology Open*, 8: bio047084.
6. Fiocca K<sup>1</sup>, **Barrett M**<sup>1</sup>, Waddell E, Vivieros J, McNair C, O'Donnell S, Marenza D. (2019). Mannitol ingestion causes concentration-dependent, sex-biased mortality in *Drosophila melanogaster*. *PLoS One*, 14: e0213760.
5. Caponera V, **Barrett M**, O'Donnell S, Marenza D. (2019). Erythritol causes concentration-dependent mortality in the Eastern subterranean termite (Blattodea: Rhinotermitidae). *Journal of Economic Entomology*, toz260.
4. O'Donnell S, Bulova S, DeLeon S, **Barrett M**, Fiocca K. (2019). Brain structure differences between solitary and social wasp species are independent of body size allometry. *Journal of*

*Comparative Physiology A*, DOI 10.1007/s00359-019-01374-w.

3. O'Donnell S, Bulova S, **Barrett M**, von Beeren C. (2018). Brain investment under colony-level selection: soldier specialization in *Eciton* army ants (Formicidae: Dorylinae). *BMC Zoology*, 3:3.
2. O'Donnell S, Bulova S, **Barrett M**, Fiocca K. (2017). Size constraints and sensory adaptation in brain architecture (paper wasps - Vespidae: Epiponini). *Biological Journal of the Linnean Society*, blx150.
1. O'Donnell S, Bulova S, DeLeon S, **Barrett M**, Fiocca K. (2017). Caste differences in the mushroom bodies of swarm-founding paper wasps: implications for brain plasticity and brain evolution (Vespidae, Epiponini). *Behavioral Ecology and Sociobiology*, 71:116.

<sup>1</sup>Co-first author

### Accepted Manuscripts

27. **Barrett M**, Miranda C, Veloso IT, Flint C, Perl CD, Martinez A, Fischer B, Tomberlin JK. Grinding as a slaughter method for farmed black soldier fly (*Hermetia illucens*) larvae: Empirically-supported recommendations for more instantaneous and humane practice. (*Animal Welfare*)  
+ Preprint: <https://osf.io/j25pc>

### Preprints & Submitted Manuscripts

28. **Barrett M**, Raffel T, Fischer B. 'Biologically Degenerate, Ecologically Marginal': Parasites as a Case Study in Societal Values Impacting Ecological Research. (*Philosophy, Theory, and Practice in Biology*)
29. Gould E, Fraser HS, Parker TH, Nakagawa S, Griffith SC, Vesik PA, Fidler F... **Barrett M**...Tompkins EM. Same data, different analysts: Variation in effect sizes due to analytical decisions in ecology and evolutionary biology. (*BMC Biology*)  
+ Preprint: <https://doi.org/10.32942/X2GG62>
30. Johnson M, **Barrett M**, Harrison JF. The effects of solar radiation on a flying desert bee, *Centris pallida*. (*Journal of Experimental Biology*)
31. Cuff J, **Barrett M**, Gray H, Fox C, Watt A, Aimé E. The case for open research in entomology: reducing harm, refining reproducibility and advancing insect science. (*Agricultural and Forest Entomology*)  
+ Preprint: <https://osf.io/cufpq/>
32. Rowe E, Robles López KY, Robinson KM, Baudier KM, **Barrett M**. Farmed Cricket (*Acheta domesticus*, *Gryllus assimilis*, and *Grylloides sigillatus*; Orthoptera) Welfare Considerations: Recommendations for Improving Global Practice. (*Journal of Insects as Food and Feed*)  
+ Preprint: <https://osf.io/c4qp3/>
33. Goldberg J, Godfrey RK, **Barrett M**. A long-read draft assembly of the Chinese mantis (Mantodea: Mantidae: *Tenodera sinensis*) genome reveals patterns of ion channel gain and loss across Arthropoda. (*G3*)  
+ Preprint: <https://www.biorxiv.org/content/10.1101/2023.11.15.567226v1>
34. **Barrett M**, Fischer B. I. The Era Beyond Eisemann et al. (1984): Insect pain in the 21<sup>st</sup> century. (*Annals of the Entomological Society of America*)  
+ Preprint: <https://osf.io/ng7pu>

Founded and write the 'Ethos' column on ethics in entomology, *The American Entomologist*:

1. **Barrett M**, Fischer B (2023). Introducing ‘Ethos’: A regular forum for interdisciplinary conversations about ethics in entomology. *American Entomologist*, 69(1): 40-44.
2. **Barrett M**, Fischer B (2023). Should we add them? Asking better questions about authorship. *American Entomologist*, 69(2): 47-51.
3. **Barrett M**, Fischer B (2023). Don’t lose the louse: Articulating our values in conservation. *American Entomologist*, 69(3): 38-41.
4. Fischer B, **Barrett M** (2023). Between wonder and warfare: The case of the spotted lanternfly. *American Entomologist*, 69(4): 46-49.

### Book Chapters

- Barrett M. “Insects”. In *Pain and Suffering in Farmed Animals: First Steps in Better Understanding and Management*, edited by Clutton E, Musk G. *Forthcoming with Springer, 2024.*
- Multiple chapters with other authors within *Weighing Animal Welfare: Comparing Well-Being Across Species*, edited by Fischer B. *Forthcoming with Oxford University Press, 2024.*
- Multiple chapters with other authors within *Invertebrate Sentience: Evidence, Ethics, and Policy*, edited by Birch J, Crump A. *Forthcoming with Routledge, 2024.*

### Methods

- Fischer B, **Barrett M**, Adcock S, Barron A, Browning H, Chittka L, Drinkwater E, Gibbons M, Haverkamp A, Perl C. (2023). Guidelines for protecting and promoting insect welfare in research. Insect Welfare Research Society. DOI: 10.13140/RG.2.2.19325.64484.

### Research Support & Fellowships

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| 2023 | <b>OP Animal Welfare Research Grant - \$268,684.00</b><br>Wrote research proposal, funds managed by Rethink Priorities or Insect Welfare Research Society; Funder: Open Philanthropy |
| 2022 | <b>OP Animal Welfare Research Grant - \$468,003.93</b><br>Wrote research proposal, funds managed by Rethink Priorities; Funder: Open Philanthropy                                    |
| 2022 | <b>EA Animal Welfare Research Grant - \$64,000</b><br>Wrote research proposal, funds managed by Rethink Priorities; Funder: EA Animal Welfare Fund                                   |
| 2021 | <b>NSF Postdoctoral Research Fellowship in Biology - \$128,000</b><br>Funder: National Science Foundation  |
| 2020 | <b>Microscopy Training Fellowship - \$1,000</b><br>Funder: American Microscopical Society  |
| 2020 | <b>Robert L. and Louise B. Jeanne Social Wasp Research Grant - \$2,500</b><br>Funder: International Union for the Study of Social Insects  |
| 2020 | <b>PEO Scholar Award - \$15,000</b><br>Funder: International Chapter of the PEO Sisterhood   |
| 2020 | <b>Animal Behavior Society Student Research Grant - \$1,000</b><br>Funder: Animal Behavior Society   |
| 2019 | <b>SysEB Student Research Travel Award - \$1,450</b><br>Funder: Entomological Society of America   |
| 2019 | <b>American Philosophical Society Lewis and Clark Grant - \$2,100</b><br>Funder: American Philosophical Society  |

- 2018      **Eva Crane Trust Research Grant - \$10,554.74**  
Co-PI with Dr. Dane Ward; Funder: Eva Crane Trust
- 2018      **Huyck Preserve Research Grant – \$2,500**  
Funder: Huyck Preserve
- 2016      **College of Arts & Sciences Dean’s Fellowship - \$10,000**  
Drexel University

### **Honors and Awards**

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- 2022      George C. Eickwort Student Research Award, *International Union for the Study of Social Insects North American Section*
- 2018, 2019, & 2021      Graduate College Continuing Excellence in Teaching Assistance Award, *Drexel University*
- 2018      College of the Arts and Sciences Mentorship Award, *Drexel University*
- 2017 & 2018      College of the Arts and Sciences Teaching Assistance Excellence Award, *Drexel University*
- 2017      American Museum of Natural History Bee Course Tuition Scholarship, *AMNH*
- 2016      Biology Leadership Award for Excellence in Teaching, *SUNY Geneseo*
- 2016      SUNY Chancellor’s Award for Student Excellence, *SUNY-wide*
- 2016      SUNY Geneseo Opportunities for Leadership Development Platinum Award, *SUNY Geneseo*
- 2012-2016      Model A Ford Club of America Youth Scholarship, *Model A Ford Club of America*
- 2012-2016      Edgar Fellows Honors College and Award, *SUNY Geneseo*
- 2015      Greek Woman of the Year, *SUNY Geneseo*
- 2015      Natalie Selser Freed Memorial Scholarship, *SUNY Geneseo*
- 2015      Bill & Stacey Edgar Annual Geneseo Scholarship, *SUNY Geneseo*
- 2014-2015      Promotional Products Education Foundation Scholarship, *Promotional Products Association International*
- 2012-2015      Scholar in Residence Award, *SUNY Geneseo*
- 2014      Student Association Merit Scholarship for Leadership, *SUNY Geneseo*

### **Honor Society Inductions**

Sigma Xi Associate (2021) Full (2023), Phi Beta Kappa (2015), Sigma Tau Delta (2015), National Order of Omega (2015), Tri-Beta (2014), Phi Eta Sigma (2014), Golden Key (2014)

### **Awards in Support of Travel**

- 2022      IUSSI Travel Award, *IUSSI-North American Section*
- 2019      Drexel Teck-Kah Lim Graduate Student Domestic Travel Subsidy Award, *Drexel University*
- 2018      USDA-AFRI Travel Award, *IUSSI-North American Section*
- 2018      International Travel Award, *Drexel University*
- 2017-2019      Drexel Department of Biology Travel Awards, *Drexel University*
- 2017      Three Rivers Evolution Event Travel Award, *American Society of Naturalists*
- 2015      Student Travel Grant, *SUNY Geneseo*

### **Conference Organizing Awards**

- 2018      Entomological Society of America Support of Small Meeting Sponsorship (Social Insects in the North-East Regions meeting), *Entomological Society of America*

- 2018 IUSI Support of Small Meeting Award (Social Insects in the North-East Regions meeting), *International Union for the Study of Social Insects*
- 2018 ASN Conference Award (Evolution in Philadelphia Conference), *American Society of Naturalists*
- 2018 Small Meeting Award (Social Insects in the North-East Regions meeting), *Company of Biologists*
- 2018 GSA Career Development Symposia Award (Evolution in Philadelphia Conference), *Genetics Society of America*

## Higher Education Teaching Experience

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### Courses

- 2024 **Cell Biology, K324**  
Instructor of Record, Biology Department, Indiana University Indianapolis
- 2016-2021 **Applications in Biology I and II, BIOL 207 & 208**  
Teaching Assistant, Biology Department, Drexel University  
*Role:* Prior to 2019, created some class materials, graded all assignments, sole instructor present in classroom. In 2019, redesigned courses using PBL active learning; created all course materials and the syllabi, graded all coursework, led all class sessions, etc. In 2020, redesigned courses for online instruction, recorded all lectures, taught and graded 3 online sections/term, still with active learning focus.
- 2019 **Cellular, Molecular, and Developmental Biology II, BIOL 211**  
Teaching Assistant, Biology Department, Drexel University
- 2018, 2020 **Principles in Molecular Biology, BIOL 218**  
Teaching Assistant, Biology Department, Drexel University
- 2013-2015 **General Biology Laboratory for Freshman Majors, BIO 116**  
Undergraduate Laboratory Instructor, Biology Department, SUNY Geneseo
- 2014 **General Biology: Diversity, Physiology, Ecology, BIO 119**  
Supplemental Instructor, Biology Department, SUNY Geneseo

### Invited Guest Lectures

- 2023 “Insect Sentience, Cognition, and Welfare”, C7053: Insect Physiology and Behaviour, *Harper Adams University, UK*
- 2023 “Ethical animal use in insect research”, Department of Entomology Graduate Seminar in Responsible Conduct of Research, *University of California Riverside*
- 2023 “The Role of Animal Behavior in Animal Ethics (and vice versa)”, BSC 555: Animal Behavior, *University of Southern Mississippi*
- 2022 “Insect Ethics”, PHIL 322: Animal Ethics, *Pacific University*
- 2020 “Temperature Effects on Mating Behavior”, BIO 339: Animal Behavior, *SUNY Geneseo*
- 2019 “Alternative Reproductive Tactics”, BIO 339: Animal Behavior, *SUNY Geneseo*
- 2019 “Successful Science Communication in Environmental Science”, XLRN 188: Nature History and Sustainability, *SUNY Geneseo*

- 2019 “Thermoregulation and Behavior”, BIO 345: Biology of Insects, *SUNY Geneseo*
- 2018 “Life After Geneseo Biology”, BIO 383: Graduate School and Work Seminar, *SUNY Geneseo*

### Student Mentorship

\*co-authored papers †conference presentation/poster

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### Graduate Students

- 2023-present Michael Bartlett Smith, Indiana University Indianapolis (MS Committee)
- 2023-present Hector Rosche-Flores, Indiana University Indianapolis (PhD Committee)
- 2022-present Edwin Avelar, California State University Dominguez Hills (MS Committee)

### Undergraduate Students

- 2023 I Therese Voloso, California State University Dominguez Hills
- 2023 Andrew Fairclough, California State University Dominguez Hills
- 2022-2023 Austin Martinez, California State University Dominguez Hills
- 2021-2022 †Rachel Miller, Drexel University
- 2020-2021 Andrew Snedeker, Drexel University
- 2018-2022 †Serena Joury, Drexel University
- 2018-2021 \*Purnima Sachdeva, Drexel University
- 2018-2020 \*†Angelina Gomez, Drexel University
- 2018-2020 †Devneet Kainth, Drexel University
- 2017-2020 \*†Cheyenne McNair, Drexel University
- 2017-2019 \*†Annette Kang, Drexel University
- 2017-2019 †Sumaiya Zahid, Drexel University
- 2017-2019 †Michaela Schuster, Drexel University
- 2018-2019 Rheanna Congdon, Drexel University
- 2018-2019 †Chandler Olson, Drexel University
- 2018-2019 Lauren Hultgren, Drexel University
- 2018-2019 Brandon Garcia, University of Cienfuegos, Cuba
- 2018 †Zachary Smith, Drexel University
- 2018 †Margaret McCurdy, Drexel University
- 2017-2018 †Natalie Carroll, Drexel University

### High School Students

- 2018-2020 \*†Sophi Schneider, Philadelphia

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### K12 Teaching Experience

- 2019 **Philly Scientists Summer Program (8-11 yo)**  
Lecturer and Course Activity Designer, Philly Scientists, PA
- 2019 **Eureka! Summer Camp for Girls (11-13 yo)**  
Workshop Facilitator and Activity Designer, Drexel University, PA
- 2019 **Elmwood Park Zoo Summer Camp (6-9 yo)**  
Activity Leader and Visiting Scientist, Elmwood Park Zoo, PA
- 2018, 2019 **Huyck Preserve High School Research Program (15-18 yo)**  
Lecturer and Field Leader, Huyck Preserve, NY

## Society Membership/Fellowship

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2023-present	International Society for Applied Ethology, Member
2023-present	Royal Entomological Society, Member and Fellow
2023-present	Insect Welfare Research Society, Member and Director
2022-present	Animal Welfare Research Network, Member
2021-present	Sigma Xi, Full Member
2017-present	International Union for the Study of Social Insects, Member
2017-present	Entomological Society of America, Member
2019-2021	Animal Behavior Society, Member
2021	Kansas Entomological Society, Member

## Posters and Presentations

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\* = keynote; Δ = award; underline = mentee

### Invited Talks

2024*	<b>Barrett M.</b> <i>Title TBA.</i> Insects to Feed the World, Singapore.
2024	<b>Barrett M.</b> <i>The welfare of insects farmed as food and feed.</i> Animal Welfare Group Nigeria, Virtual.
2024	<b>Barrett M.</b> <i>Title TBA.</i> Animal Welfare Foundation Discussion Forum, London, UK.
2024	<b>Barrett M.</b> <i>Title TBA.</i> University of British Columbia Animal Welfare Group, Vancouver, CA.
2024	<b>Barrett M.</b> <i>Title TBA.</i> University of Guelph Campbell Centre for the Study of Animal Welfare, Guelph, CA.
2023	<b>Barrett M.</b> <i>Farmed insect welfare.</i> EAGx Virtual Conference.
2023	<b>Barrett M,</b> Fischer B. <i>Farmed insect welfare.</i> NSF CEIF Fall Meeting, Springdale, AK.
2023	<b>Barrett M.</b> <i>Insect welfare for insect industry professionals.</i> Asian Food and Feed Insect Association & Insect Protein Association of Australia Member Event, Virtual.
2023	<b>Barrett M.</b> <i>An introduction to mini-livestock: Farmed insect welfare.</i> Honeybee Veterinary Consortium Conference, Raleigh, NC.
2023*	<b>Barrett M.</b> <i>Insect welfare and ethics: Solid foundations for an emerging field.</i> Welfare and Ethics Special Interest Group Meeting, Royal Entomological Society. Writtle, UK.
2023	<b>Barrett M.</b> <i>Farmed insect welfare.</i> EA Global. London, UK.
2023	<b>Barrett M.</b> <i>The ethical use of insects.</i> Washington State University Entomological Graduate Student Association. Virtual.
2023	<b>Barrett M.</b> <i>Insect welfare in farming and research: Ethical challenges for entomologists.</i> Texas A & M University, College Station, TX.
2023	<b>Barrett M.</b> <i>Bugs on the brain: Sensory evolution and plasticity in insects.</i> University of California Riverside, Riverside, CA.
2023	<b>Barrett M,</b> Fischer B. <i>Consumer interests, industry production, and insect welfare.</i> NSF Center for Environmental Sustainability through Insect Farming. Virtual.
2023	<b>Barrett M.</b> <i>Insect sentience: should we be concerned for the welfare of insects? A neurobiological perspective.</i> Insects as mini-livestock workshop, University College Dublin & University of Reading; Animal Welfare Research Network. Virtual.
2022	<b>Barrett M.</b> <i>Animal welfare considerations for farming insects: Ethical challenges for the insects as food and feed industry.</i> USDA-ARS, Wapato, WA.



- 2022 **Barrett M.** *The ethical use of insects in research.* Arizona State University Medical Ethics Club, Tempe, AZ.
- 2022 **Barrett M.** *External reflectance and thermal tolerance as intraspecific thermoregulatory adaptations in *Centris pallida* bees.* California State University Long Beach Biology Seminar, Long Beach, CA.
- 2022 **Barrett M.** *Dimorphism in UV-NIR reflectance associated with microclimate use in *Centris pallida* male bees.* International Union for the Study of Social Insects, San Diego, CA.
- 2022 **Barrett M.** *Variation in external reflectance as a thermoregulatory adaptation in insects.* Urban Nature Research Center Meeting, Natural History Museum of Los Angeles County, Virtual.
- 2021 **Barrett M.** *Found poetry in the primary literature: Communicating beauty and creating new meaning from within familiar scientific works.* Entomological Society of America, Virtual.
- 2021 **Barrett M.** *Bugs on the brain: Sensory evolution and plasticity in bees and wasps.* Sonoma State University Biology Colloquium, Virtual.
- 2021 **Barrett M.** *Bugs on the brain: What studying arthropods can tell us about brain evolution.* California State University Long Beach Biology Seminar, Virtual.
- 2020 **Barrett M.** *Bugs on the brain: what studying insects teaches us about brain evolution.* Drexel Neuroscience Society, Virtual.
- 2019 **Barrett M.** *The Mentorship Syllabus: Learning Outcomes for Undergraduate Researchers.* Entomological Society of America Meeting, St. Louis, MO.
- 2019 **Barrett M, O'Donnell S.** *Bugs on the brain: what studying insects can teach us about the evolution of the brain.* SUNY Geneseo Research Seminar, Geneseo, NY.
- 2019 **Barrett M, O'Donnell S.** *Bugs on the brain: what studying insects can teach us about the evolution of the brain.* Pennsylvania State Schuylkill Faculty Research Series, Schuylkill Haven, PA.

## Talks

- 2023 **Barrett M.** *Insect welfare: Solid foundations for an emerging field.* Insect Welfare Research Society, Virtual Research Seminar Series.
- 2023 **Barrett M, Chia SY, Fischer B, Tomberlin JK.** *Farmed insect welfare: A case study considering black soldier flies (*Hermetia illucens*).* Universities Federation for Animal Welfare Conference, Virtual.
- 2022 **Barrett M, Chia SY, Fischer B, Tomberlin JK.** *Welfare considerations for farming black soldier flies, *Hermetia illucens* (Diptera: Stratiomyidae): A model for the insects as food and feed industry.* Entomological Society of America, Vancouver, Canada.
- 2022 **Barrett M, Fischer B.** *Insects as livestock: Challenges at the frontier of agricultural animal welfare.* Applying Ethology Webinar Series, Virtual.
- 2022 **Barrett M, Johnson MG.** *Declines in *Centris pallida* head widths over five decades.* BeeCon, Virtual.
- 2022 **Barrett M.** *Farmed black soldier fly, *Hermetia illucens* (Diptera: Stratiomyidae), welfare considerations: A model for the insects as food and feed industry.* Ento22 Conference, Virtual.
- 2022 **Barrett M.** *Farmed Black Soldier Fly Welfare Considerations.* Insects as Food and Feed Conference, Virtual.
- 2022 **Barrett M.** *Morphological and physiological thermoregulatory strategies in *Centris pallida* male*

- bees utilizing alternative reproductive tactics*. California State University Dominguez Hills Seminar.
- 2021 **Barrett M**, O'Donnell S. *Dimorphism in UV-NIR reflectance associated with microclimate use in male bee alternative reproductive tactics*. Animal Behavior Society, Virtual.
- 2020 **Barrett M**, Buchmann S, O'Donnell S. *Neuroanatomical differentiation supports mate location differences in dimorphic male bees, *Centris pallida* and *Amegilla dawsoni**. Entomological Society of America Meeting, Virtual.
- 2020 **Barrett M**, O'Donnell S. *Neuroanatomical differentiation associated with alternative mate location strategies in *Centris pallida* bees*. Animal Behavior Society Virtual Meeting.
- 2020 **Barrett M**, O'Donnell S. *Neuroanatomical differentiation associated with differential mate location strategies in the brains of dimorphic *Centris pallida* male bees*. Binghamton Graduate Student Organization Symposium, SUNY Binghamton, NY.
- 2019<sup>Δ</sup> **Barrett M**. *The Mentorship Syllabus: Structuring Learning Outcomes for Undergraduate Researchers*. Scholars Share Drexel, Philadelphia, PA.
- <sup>Δ</sup> Best Presentation Award
- 2019 **Barrett M**. *Neuroanatomical differentiation associated with alternative mate location strategies in the brains of dimorphic *Centris pallida* bees*. Evolution in Philadelphia Conference, Philadelphia, PA.
- 2019 **Barrett M**, O'Donnell S. *Sensory differentiation in dimorphic males of the desert bee, *Centris pallida**. Entomological Society of America Eastern Branch Meeting, Blacksburg, VA.
- 2019<sup>Δ</sup> **Barrett M**. *Neuroeconomics: the supply and demand of the social brain*. Entomological Society of America Eastern Branch Meeting, Blacksburg, VA.
- <sup>Δ</sup> Second place: Entomological Digest Talks
- 2018 **Barrett M**. *Morphological and sensory differentiation in males of the desert bee, *Centris pallida**. Social Insects in the North-East Regions Conference, Philadelphia, PA.
- 2018 **Barrett M**, O'Donnell S. *Size constraints and sensory adaptation in brain architecture (paper wasps- *Vespidae: Epiponini*)*. Entomological Society of America Eastern Branch, Annapolis, MD.
- 2017 **Barrett M**, O'Donnell S. *The neuroanatomy of paper wasps: implications for brain evolution and plasticity*. Philadelphia Evolution Group, Philadelphia, PA.
- 2017<sup>Δ</sup> **Barrett M**, O'Donnell S. *Caste differences in the mushroom bodies of swarm-founding paper wasps: implications for brain plasticity and brain evolution (*Vespidae, Epiponini*)*. Three Rivers Evolution Event, Pittsburgh, PA.
- <sup>Δ</sup> American Society of Naturalists Best Lightning Talk Award
- 2016 **Barrett M**, O'Donnell S. *Introductions to social spider brains*. Social Insects in the North-East Regions Conference, Washington, DC.
- 2016 **Barrett M**, Clinton R. *Effects of the Emerald Ash Borer on Nations Road Research Reserve*. Geneseo Recognizing Excellence, Achievement, and Talent Day, Geneseo, NY.
- Posters**
- 2023 **Barrett M**, O'Donnell S. *Thermal adaptations in dimorphic male *Centris pallida* desert bees*. Invited Poster, Entomological Society of America, National Harbor, Maryland.
- 2022 **Barrett M**, O'Donnell S. *Dimorphism in UV-NIR reflectance associated with microclimate use in *Centris pallida* male bees*. Entomological Society of America, Vancouver, Canada.

- 2019<sup>Δ</sup> **Barrett M**, Caponera V, Schneider S, Congdon R, Sachdeva P, O'Donnell S. *Neuroanatomical differentiation associated with differential mate location strategies in the brains of dimorphic *Centris pallida* male bees*. Entomological Society of America, St. Louis, MO.  
<sup>Δ</sup> First Place in Poster Competition
- 2019 **Barrett M**, Olson C, DeAngelis B, Schneider S, McCurdy M, Joury S, Smith Z, Thomas R, Machado JAM, Ward DC. *Thermal tolerance and morphology of guard and forager *Melipona beecheii* in Cienfuegos, Cuba*. Annual International Research Showcase, Drexel University, PA.
- 2018 **Barrett M**, O'Donnell S, Bulova S, von Beeren C. *Brain investment under colony-level selection: soldier specialization in *Eciton Army Ants**. Evolution in Philadelphia Conference, Philadelphia, PA.
- 2018 **Barrett M**, Bulova SJ, DeLeon S, Fiocca K, O'Donnell S. *Caste differences in the mushroom bodies of swarm-founding paper wasps*. International Union for the Study of Social Insects, Guarujá, Brazil.
- 2018 **Barrett M**, Carroll N, McNair C, O'Donnell S. *Does brain structure covary with sociality in spiders? A comparative test in the genus *Anelosimus* (Araneae: Theridiidae)*. Drexel University Biodiversity, Earth, and Environmental Sciences Research Symposium, Philadelphia, PA.
- 2016 **Barrett M**, Carpenter R, Apple J. *Survey of Native Pollinators in the Geneseo Area*. Geneseo Recognizing Excellence, Achievement, and Talent Day, Geneseo, NY.
- 2015 **Barrett M**, Apple J. *Determination of Colony Structure in *Formica pergandei* using Microsatellite Markers to Estimate Worker Relatedness*. COPLAC Northeast Regional Undergraduate Research, Scholarly and Creative Activity Conference, Mahwah, NJ.
- 2015 **Barrett M**, Apple J. *Determination of Colony Structure in *Formica pergandei* using Microsatellite Markers to Estimate Worker Relatedness*. Geneseo Recognizing Excellence, Achievement, and Talent Day, Geneseo, NY.
- 2015 **Barrett M**, Apple J. *Determination of Colony Structure in *Formica pergandei* using Microsatellite Markers to Estimate Worker Relatedness*. Northeast Natural History Conference, Springfield, MA.

#### Co-authored Presentations:

- 2020 **Caponera V**, Barrett M, Aviles L, O'Donnell S. *Variations in brain region allocation across a gradient of spider sociality*. Binghamton Graduate Student Organization Symposium, SUNY Binghamton, NY.
- 2019 **Baudier K**, Bennett M, Barrett M, Fewell JH, Pavlic T. *Neural underpinnings of defense specialization in soldiers of the stingless bee *Tetragonisca angustula**. Entomological Society of America, St. Louis, MO.
- 2019 **Caponera V**, Barrett M, McNair C, Aviles L, O'Donnell S. *Variations in brain region allocation across a gradient of spider sociality*. Entomological Society of America, St. Louis, MO.
- 2019 **Ward DC**, Barrett M, Machado JAM. *Structuring meaningful learning outcomes for students engaged in international STEM field experiences*. III Conferencia Científica Internacional de la Universidad de Cienfuegos, Cienfuegos, Cuba.
- 2019 **Caponera V**, Barrett M, McNair C, Aviles L, O'Donnell S. *Variations in brain region allocation across a gradient of spider sociality*. Evolution in Philadelphia Conference, Philadelphia, PA.
- 2019 **Ward DC**, Barrett M, Machado JAM. *Variation in worker caste morphology of *Melipona beecheii* in Cuba*. Ecological Society of America Meeting, Louisville, KY.
- 2019 **Barrett M**, Machado JAM, Ward DC. *Structuring meaningful learning outcomes for students engaged in international STEM field experiences*. Ecological Society of America Meeting, Louisville, KY.
- 2019 **Kang A**, McNair C, Barrett M, O'Donnell S. *Characterizing the nest partitioning, brood sex allocation, and*

- larval provisions of New York's solitary, grass-carrying wasp (*Isodontia* sp). Entomological Society of America Eastern Branch Meeting, Blacksburg, VA.
- 2018 **O'Donnell S**, Bulova S, Barrett M, Fiocca K. *Size and brains: Constraints in the allometry of brain evolution in social insects (Hymenoptera: Vespidae)*. Social Insects in the North-East Regions Conference, Philadelphia, PA.
- 2018 **Caponera V**, Barrett M, O'Donnell S. *Variations in brain resource allocation across a gradient of spider sociality*. Social Insects in the North-East Regions Conference, Philadelphia, PA.
- 2018 **Ward DC**, Barrett M, Machado JAM. *Ecological investigations of *Melipona beecheii* in Cienfuegos, Cuba*. II Conferencia Científica Internacional de la Universidad de Cienfuegos, Cienfuegos, Cuba.

#### Co-authored Posters:

- 2021 **Miller R**, Barrett M, O'Donnell S. *External sensory systems of *Centris pallida* bees*. STAR Summer Showcase, Drexel University.
- 2019 **McNair C**, Barrett M, Fiocca K, Waddell E, O'Donnell S, MarenDA D. *Mannitol ingestion causes sex-biased, concentration-dependent mortality in *Drosophila melanogaster**. American Biomedical Research Conference for Minority Students, Anaheim, CA.
- 2019 **Gomez A**, Barrett M, Caponera V, **McNair C**, O'Donnell S, MarenDA D. *Social transfer and the synergistic effects of erythritol and water stress on mortality in ants (Hymenoptera: Formicidae)*. American Biomedical Research Conference for Minority Students, Anaheim, CA.
- 2019 **Caponera V**, Barrett M, MarenDA D, O'Donnell S. *Erythritol ingestion causes concentration-dependent survival reduction in subterranean termites (*Reticulitermes: flavipides*)*. Entomological Society of America, St. Louis, MO.
- 2019 **Fiocca K**, Barrett M, Waddell E, Viveiros J, **McNair C**, O'Donnell S, MarenDA D. *Mannitol ingestion causes concentration-dependent, sex-biased mortality in adults of the fruit fly (*Drosophila melanogaster*)*. Entomological Society of America, St. Louis, MO.
- 2019 **McNair C**, Barrett M, O'Donnell S, MarenDA D. *Concentration-dependent, synergistic effects of erythritol and water stress in ants (Hymenoptera: Formicidae)*. Entomological Society of America Eastern Branch Meeting, Blacksburg, VA.
- 2019<sup>Δ</sup> **Gomez A**, **Kainth D**, Barrett M, Fiocca K, Waddell E, **McNair C**, O'Donnell S, MarenDA D. *D-mannitol ingestion causes concentration-dependent mortality and developmental delay in *Drosophila melanogaster**. Entomological Society of America Eastern Branch Meeting, Blacksburg, VA.
- <sup>Δ</sup>Won second place in the BS/MS competition.
- 2018 **Olson C**, **McCurdy M**, **Smith Z**, **Joury S**, **Schneider S**, Thomas R, Márquez S, Barrett M, Machado JAM, Ward DC. *Variation in worker caste morphology of *Melipona beecheii fulvipes* bees in Cuba*. II Conferencia Científica Internacional de la Universidad de Cienfuegos, Cienfuegos, Cuba.
- 2018 **Joury S**, **Olson C**, **McCurdy M**, **Smith Z**, Thomas R, Márquez S, Barrett M, Machado JAM, Ward DC. *Conditioning Bees in Cuba: assessing the cognitive behavior and color preferences of *Melipona beecheii* through visual associative learning assays*. II Conferencia Científica Internacional de la Universidad de Cienfuegos, Cienfuegos, Cuba.
- 2018 **Smith Z**, **Joury S**, **Olson C**, **McCurdy M**, Thomas R, Márquez S, Barrett M, Machado JAM, Ward DC. *Microhabitat and introduced species' effects on native bee community structure in Cienfuegos, Cuba*. II Conferencia Científica Internacional de la Universidad de Cienfuegos, Cienfuegos, Cuba.
- 2018 **McCurdy M**, **Smith Z**, **Joury S**, **Olson C**, Thomas R, Márquez S, Barrett M, Machado JAM, Ward DC. *Limited thermoregulatory mechanisms in foraging *Melipona beecheii* bees*. STAR Scholars Summer Showcase, Philadelphia, PA.
- 2018 **Olson C**, **McCurdy M**, **Smith Z**, **Joury S**, **Schneider S**, Thomas R, Márquez S, Barrett M, Machado JAM, Ward DC. *Variation in worker caste morphology of *Melipona beecheii fulvipes* bees in Cuba*. STAR Scholars Summer Showcase, Philadelphia, PA.
- 2018 **Joury S**, **Olson C**, **McCurdy M**, **Smith Z**, Thomas R, Márquez S, Barrett M, Machado JAM, Ward DC. *Conditioning Bees in Cuba: assessing the cognitive behavior and color preferences of *Melipona beecheii* through visual associative learning assays*. STAR Scholars Summer Showcase, Philadelphia, PA.
- 2018 **Smith Z**, **Joury S**, **Olson C**, **McCurdy M**, Thomas R, Márquez S, Barrett M, Machado JAM, Ward DC. *Microhabitat and introduced species' effects on native bee community structure in Cienfuegos, Cuba*. STAR

- 2018 Scholars Summer Showcase, Philadelphia, PA.  
**McNair C.**, Barrett M, O'Donnell S. *The Pest Relief: Does erythritol act as an insecticide for ants?* Drexel University Biodiversity, Earth and Environmental Sciences Research Symposium, Philadelphia, PA.
- 2018 **Schuster M, Zahid S.**, Barrett M, O'Donnell S. *Do paper wasps have morphological worker subcastes? A test in the neotropical warrior wasp, *Synocera septentrionalis* (Hymenoptera: Vespidae).* Drexel University Biodiversity, Earth, and Environmental Sciences Research Symposium, Philadelphia, PA.
- 2017 **McNair C.**, Barrett M, O'Donnell S. *The Pest Relief: Does erythritol act as an insecticide for ants?* STAR Scholars Summer Showcase, Philadelphia, PA.

## Professional Service

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### Departmental/University Committees

- 2024-present *Greenhouse Committee*, Indiana University Indianapolis
- 2020-2021 *Biology and BEES Graduate Student Association Diversity, Equity, and Inclusion Ad-hoc Committee Member*, Drexel University  
 + Founder/Facilitator of the Diversity, Equity, and Liberation Learning Community for Graduate Students and Postdocs
- 2020-2021 *Biology Department Diversity, Equity, and Inclusion Ad-hoc Committee Member*, Drexel University
- 2020 *Strategic Planning Focus Committee*, Drexel University
- 2019 *Department Scientific Retreat Committee*, Biology Department, Drexel University
- 2016 *Curriculum Committee Member*, Geneseo Learning Outcomes for Baccalaureate Education (GLOBE), SUNY Geneseo

### Workshops and Panels

- 2023 *Foundations of Insect Welfare*, Organizer and Speaker; Animal Welfare Research Network Early Career Meet-Up, Virtual
- 2023 *Planning a CSU-wide Postdoctoral Research Community*, Organizer; CSUDH Department of Research
- 2023 *Biological Research Ethics*, Organizer; CSUDH Office of Undergraduate Research
- 2023 *Research and Writing Skills*, Organizer; CSUDH Office of Undergraduate Research
- 2022 *Finding and Supporting STEM Postdocs at CSUDH Workshop*, Organizer; CSUDH Faculty Development Center
- 2022 *Grant Writing Workshop*, Organizer; IUSSI 2022 + EntoPOC, San Diego
- 2022 *Networking Panel*, Organizer; IUSSI 2022 + EntoPOC, Virtual
- 2021 *STEM Pedagogy and Career Paths*, Panelist; Drexel University
- 2020\* *The Mentorship Syllabus: Planning for undergraduate researcher learning and success*, Organizer; Entomological Society of America Meeting, Virtual.  
 \*invited workshop, co-led with Dr. Jonathan Koch
- 2019-2020 *Multiple Student Workshops*, Organizer; Louis Stokes Alliances for Minority Participation (LSAMP), Drexel University

### Volunteer Service

- 2022 *Student Mentor*, IUSSI 2022
- 2020 *Student Mentor*, EntoPOC (for Entomological Society of America 2020)

- 2020 *Competition Judge*, pollinator protection research contest, high and middle school, Army Educational Outreach Program
- 2020 *Travel Scholarship Reviewer*, Society for the Advancement of Chicanos/Hispanics and Native Americans in Science
- 2017-2019 *Volunteer Teaching Leader*, Teaching Assistant Task Force, Drexel University
- 2018 *Volunteer Judge*, Drexel STAR Summer Showcase, Philadelphia
- 2018 *Head Judge*, George Washington Carver Science Fair, Philadelphia
- 2017 *Volunteer Interviewer*, DrEAMS program, Drexel University

### **Student Leadership**

- 2017-2020 *Biology and BEES Graduate Student Association*, Drexel University  
 - 2017-2018: *Treasurer*, 2018-2019: *President*, 2019-2020: *Vice President for Biology*  
 - While President, BGSA won the 2019 Graduate Community Impact Award from the Graduate College

**Peer Reviewer:** *Animal Welfare* (1), *Behavioral Ecology* (1), *Ecological Entomology* (1), *Insectes Sociaux* (1), *Journal of Economic Entomology* (1), *Journal of Entomological Education and Outreach* (1), *Journal of Insects as Food and Feed* (2), *Papéis Avulsos de Zoologia* (1)

### **Continuing Education Courses for Veterinarians**

- 2024 Farmed Insect Welfare, *Instructor* (Our Honor)

### **Symposium Organization**

- 2023 Community-sourced Strategies for Improving Insect Welfare in Research and Education; co-organized with Bob Fischer; Entomological Society of America 2023, National Harbor, USA
- 2023 Community-sourced Strategies for Improving Insect Welfare in Research and Education; co-organized with Bob Fischer; Royal Entomological Society Ento 2023, Penryn, UK
- 2022 Insect Welfare in Farmed, Wild, and Research Contexts; co-organized with Bob Fischer; Entomological Society of America 2022, Vancouver, CA

### **Conference Organization**

- 2023-2024 Scientific Committee Member, 2024 Insects to Feed the World Conference, Singapore
- 2019-2022 Chair of the Graduate and Postdoc Committee & Member of the Executive Committee for the 2022 International Union for the Study of Social Insects, San Diego
- 2019 Executive Committee, Evolution in Philadelphia Conference, Philadelphia
- 2018 Executive Committee, Evolution in Philadelphia Conference, Philadelphia
- 2018 Executive Committee, Social Insects in the North-East Regions Conference, Philadelphia

## Science Communication

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### Scientific Outreach Events

- 2018, 2019     **Scientist Saturday Program (all ages)**  
Visiting Scientist, Academy of Natural Sciences, PA
- 2018           **Phoenix March for Science (all ages)**  
Meet and Greet Scientist with the Arizona State University Social Insect  
Research Group, Phoenix, AZ

### Scientific Outreach Talks (all invited)

- 2024           Barrett M. *Farmed Insect Welfare*. Society for the Prevention of Cruelty to Animals,  
Australia. Virtual Staff Webinar.
- 2023           Barrett M. *Insect Ethics*. Danish Center for a Plant-Based and Organic Future, Virtual  
Webinar.
- 2023           Barrett M. *Farmed Insect Welfare*. Centre for Effective Altruism. Virtual Staff Webinar.
- 2023           Barrett M. *Farmed Insect Welfare*. Compassion in World Farming. Virtual Staff  
Webinar.
- 2023           Barrett M. *Farmed Insect Welfare*. Society for the Prevention of Cruelty to Animals,  
British Columbia. Virtual Staff Webinar.
- 2023           Barrett M. *Farmed Insect Welfare*. Anima International, Virtual Staff Webinar.
- 2023           Barrett M. *Farmed Insect Welfare*. Animal Charity Evaluators, Virtual Staff Webinar.
- 2022           Barrett M. *Farmed Insect Welfare*. Open Philanthropy, Presentation, Staff Retreat.
- 2022           Barrett M. *Insects*. Rethink Priorities, Presentation, Staff Retreat.
- 2020           Barrett M, Ward DC. *Problems facing our pollinators*. Army Educational Outreach  
Program, Virtual.
- 2020           Barrett M. *The Insect Apocalypse: Diversity, Function, and Importance of Insects*. Timeular  
Retreat, USA.
- 2019           Barrett M. *Who's there? Opportunistic natural history research on Isodontia auripes wasps at the  
Huyck Preserve*. Huyck Preserve 80<sup>th</sup> Anniversary Research Celebration,  
Rensselaerville, NY.
- 2018           Barrett M. *Altruism, Relatedness, and Sociality: Unraveling the Evolutionary Story of the 'Hive  
Mind' in Bees*. Huyck Preserve Thursday Night Lecture Series, Rensselaerville, NY.

### Science Communication Online

#### *Scientist podcast guest*

- 2024: 80,000 Hours  
2020: ArthroPod  
2019: BugScope  
2018: PhDrinking; Superwomen in Science; School of Batman

*Science Writing*: PlanetBee; Buzz, Hoot, Roar; Rapid Ecology; Faces of Fieldwork; Go Beyond;  
The Female Scientist; Biotweeps; EA Forum; The Huyck Preserve newsletter

### Creative Writing Science Publications

- *Experimental Ambiguity*, a play, published in *Gandy Dancer Magazine*; performed by the Young, Open and Honest Players of Penfield in 2012 and expanded version performed as an Educational Theater Workshop at SUNY Geneseo in 2016
- Biological poetry published in *Palaver Magazine*, *The Trumpeter*, *Mind Murals Magazine*, *Five:2:One Magazine*, *The Waggle*, *Crab Fat Magazine*, *Gandy Dancer Magazine*, *Firefly Magazine*, *Frankenstein's Review*, *UnLost Magazine*, *all the sins*, *Eyedrum Periodically*, and *The Slag Review*

### Public Coverage of Research

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- 2023, [Medium](#) – covered pollinator welfare research
- 2023, [EXEL Magazine](#) – covered termite brain research
- 2023, [Geneseo Scene](#) – covered insect pain and ethics research
- 2023, [Journal of Experimental Biology](#) – ‘Outside JEB’ article highlighting reflectance research
- 2023, [American Entomologist](#) – editorial highlighted ‘Ethos’ column
- 2023, *Animal Welfare* - editorial covered insect welfare research
- 2023, [Psychology Today](#) – covered pollinator welfare research
- 2023, [The Scientist](#) – covered *Centris pallida* body size declines research
- 2022, [Insectes Sociaux](#) – editorial covering termite neuroanatomy research
- 2022, [Buzzing Newsletter](#) – covered black soldier fly welfare research
- 2022, *Bee Craft Magazine* – covered black soldier fly welfare research (print)
- 2019, [The Triangle](#) – covered *Melipona beecheii* research
- 2019, [EXEL Magazine](#) – covered *Centris pallida* thermoregulation research
- 2019, [Food and Wine](#) – covered *Melipona beecheii* research
- 2018, [NPR](#) – covered *Melipona beecheii* research