

Lewis J. Bartlett

B.A. (Hons), Ph.D.

Contact: lewis.bartlett@uga.edu / +1 706-248-2565

Website: bartlett.science Scholar: goo.gl/WddJ71

Education

2014 - 18	<p>PhD Evolutionary Ecology – Centre for Ecology and Conservation, University of Exeter <i>UBI MEL, IBI APES: On the evolutionary ecology of infectious diseases and intersections with apiculture.</i> - Supervision: Prof. Mike Boots & Dr. Lena Wilfert. Examiners: Prof. Juliet Osborne & Dr. Dylan Childs. Awarded January 2019.</p>
2010 - 13	<p>Selwyn College, University of Cambridge - B.A. (Hons) Natural Sciences – Zoology: Class I</p>

Research Positions

- **Assistant Professor** – Entomology & Ecology, University of Georgia 2023 +
Faculty position joint between the Department of Entomology & Odum School of Ecology
- **Assistant Research Scientist** (Faculty) – Entomology & Ecology, University of Georgia 2022 - 23
Faculty position joint between the Department of Entomology & Odum School of Ecology
- **Postdoctoral Associate** – Center for the Ecology of Infectious Diseases; University of Georgia 2019 - 22
Independent fellowship. Mentors: Prof. Keith Delaplane, Prof. John Drake, & Dr. Richard Hall.
- **Postdoctoral Researcher** – Department of Biology; Emory University 2018 - 19
Reporting to Prof. Jaap de Roode.
- **Visiting Scholar** – Department of Integrative Biology, U.C. Berkeley 2016 - 18
Visiting researcher in the Department of Integrative Biology, U.C. Berkeley.
- **Research Support Officer** – Environment and Sustainability Institute; University of Exeter 2014
Reporting to Prof. Kevin Gaston.
- **Research Assistant** – Department of Environmental Sciences; University of York 2013 - 14
Reporting to Dr. Andrew Marshall.
- **Research Intern** – World Conservation Monitoring Centre; U.N.E.P. 2013
Joint project with Microsoft Research, reporting to Dr. Michael Harfoot.

Publications

Google Scholar: <https://goo.gl/WddJ71>

*Undergraduate student mentee authors are denoted by *; graduate student authors are noted by †; both are underlined.*

Published Peer-Reviewed Research

- N Sokolov†, M Boots, LJ Bartlett (2025) “Avoiding the tragedies of parasite tolerance in Darwinian beekeeping.” *Proceedings of the Royal Society B* 292.
- LJ Bartlett, S Bruckner†, DA Delaney, JF Menz, GR Williams, KS Delaplane (2024) “Neonicotinoid exposure increases Varroa parasitism severity in honey bee colonies and is not mitigated by increased colony genetic diversity.” *Journal of Insect Science* 24
- Hoebeke et al. (2024) “First Records of *Vespa velutina* (Lepeletier)(Color form Nigrithorax)(Hymenoptera: Vespidae) in North America, an Invasive Pest of Domesticated Honeybees” *Proceedings of the Entomological Society of Washington* 126
- Rinkevich et al. (2024) “Relative Impacts of Varroa Infestation and Pesticide Exposure on Honey Bee Colony Health and Survival in a High-Intensity Corn and Soybean Producing Region in Northern Iowa” *Journal of Insect Science* 24
- LJ Bartlett, J Berry†, M Boots, BJ Brosi, KS Delaplane, T Dynes, JC de Roode (2024) “Fast-growing parasite strains threaten host populations via patch-level population dynamics and higher virulence; a case study in Varroa mites and honey bees.” *Journal of Insect Science* 24
- KS Delaplane, K Hagan†, K Vogel, LJ Bartlett (2024) “Mechanisms for polyandry evolution in a complex social bee.” *Behavioural Ecology and Sociobiology* 78.
- LJ Bartlett, C Baker†, S Bruckner†, KS Delaplane, E Hackmeyer*, GR Williams, J Berry† (2023) “Slow-release oxalic acid towels developed by beekeepers show insufficient parasite control for use in the Southeast.” *Journal of Insect Science* 23
- E Hackmeyer*, KS Delaplane, TJ Washburn*, LJ Bartlett (2023) “Successful application of anthranilic diamides in preventing small hive beetle (Coleoptera: Nitidulidae) infestation in honey bee (Hymenoptera: Apidae) colonies.” *Journal of Insect Science* 23

- JA Berry†, SK Braman, KS Delaplane, **LJ Bartlett** (2023) “Inducing a summer brood-break to increase the efficacy of oxalic acid vaporization for Varroa destructor control in honey bee colonies in the Southeast US.” **Journal of Insect Science** 23
- C Prouty†, **LJ Bartlett**, V Krischik, S Altizer (2023) “Adult monarch butterflies show high tolerance to neonicotinoid insecticides.” **Ecological Entomology** 48.
- GM Daykin et al. (2023) “AgroEcoList 1.0: A checklist to improve reporting standards for ecological research in agriculture” **PLOS ONE** 18
- E Visher†, L Uricchio, **LJ Bartlett**, N DeNamur*, A Yarcan*, D Alhassani*, M Boots (2022) “The Evolution of Host Specialization in an Insect Pathogen.” **Evolution** 76
- **LJ Bartlett** (2022) “Frontiers in Effective Control of Problem Parasites in Beekeeping.” *Invited Review*. **International Journal for Parasitology: Parasites and Wildlife** 17
- **LJ Bartlett**, C Martinez-Mejia*, KS Delaplane (2022) “Honey bees preferentially avoid sugar solutions supplemented with field-relevant concentrations of hydrogen peroxide despite high tolerance limits.” **Journal of Insect Science** 22
- J Berry†, **LJ Bartlett**, S Bruckner†, K Delaplane, GR Williams, K Braman (2022) “Assessing repeated oxalic acid vaporization in honey bee (*Apis mellifera*) colonies for control of the ectoparasitic mite Varroa destructor.” **Journal of Insect Science** 22
- **LJ Bartlett**, S Bruckner†, DA Delaney, GR Williams, KS Delaplane (2022) “A computational approach to tracking age-based task frequency distributions of *Apis mellifera* worker cohorts.” **Journal of Apicultural Research** 61
- **LJ Bartlett**, M Boots (2021) “The central role of host reproduction in determining the evolution of virulence in spatially structured populations.” **Journal of Theoretical Biology** 523
- **LJ Bartlett**, M Boots, BJ Brosi, JC de Roode, KS Delaplane, CA Hernandez†, L Wilfert (2021) “Persistent effects of management history on honeybee colony virus abundances.” **Journal of Invertebrate Pathology** 179
- **LJ Bartlett**, E Visher†, Y Haro*, K Roberts, M Boots (2020) “The target of selection matters: An established resistance – development-time negative genetic trade-off in *Plodia* is not found when selecting on development time.” **Journal of Evolutionary Biology** 88
- K Roberts, S Meaden, S Sharpe, S Kay, T Doyle, D Wilson, **LJ Bartlett**, S Paterson, M Boots (2020) “Resource quality determines the evolution of resistance and its genetic basis.” **Molecular Ecology** 29
- **LJ Bartlett**, C Rozins, BJ Brosi, KS Delaplane, JC de Roode, A White, L Wilfert, M Boots (2019) “Industrial bees: the impact of apicultural intensification on local disease prevalence.” **Journal of Applied Ecology** 56
- **LJ Bartlett**, L Wilfert, M Boots (2018) “A genotypic trade-off between constitutive resistance to viral infection and host growth rate.” **Evolution** 72
- **LJ Bartlett**, CJ Carlson†, M Boots (2018) “Identifying regions of risk to honeybees from Zika vector control in the U.S.” **Journal of Apicultural Research** 57
- JL Knap†, **LJ Bartlett**, JL Osborne (2017) “Re-evaluating strategies for pollinator dependent crops: how useful is parthenocarpy?” **Journal of Applied Ecology** 54
- **LJ Bartlett**, T Newbold, DW Purves, DP Tittensor, MBJ Harfoot (2016) “Synergistic impacts of habitat loss and fragmentation on model ecosystems.” **Proceedings of the Royal Society B** 283
- **LJ Bartlett**, DR Williams, GW Prescott, A Balmford, RE Green, A Eriksson, PJ Valdes, JS Singarayer, A Manica (2016) “Robustness despite uncertainty: regional climate data reveal the dominant role of humans in explaining global extinctions of Late Quaternary megafauna.” **Ecography** 39

Book Chapters

- **LJ Bartlett**. 'Honey Bee Parasites and Pests', in "Honey Bee Medicine for the Veterinary Practitioner" 2nd Edition Edited by T.R. Kane & C.M. Faux. Ch. 26 (Accepted)
- E Resetarits, **LJ Bartlett**, CA Wilson†, AR Willoughby† “Parallels in Parasite Behaviour: The other side of the host-parasite relationship.” (2022) *Animal Behavior and Parasitism* (edited by Ezenwa, Hall & Altizer) Ch. 19; 322 – 332.

Published Commentary

- E Demand & **LJ Bartlett** “Constraints and Opportunities of Political Activism as a Foreign Entomologist” (2024) **American Entomologist** 70
- **LJ Bartlett** “Understanding the mutualism between drag artistry and entomology communication.” (2023) *Invited ‘Signals’ article in American Entomologist* 69
- **LJ Bartlett**, T Washburn* (2023) “Are common misperceptions of EEID based on biases of where EEID studies are published?” **Bulletin of the Ecological Society of America** e2027.
- C Bahlai, **LJ Bartlett**, KR Burgio, AMV Fournier, CN Keiser, T Poisot, KS, Whitney (2019) “Open Science Isn’t Always Open to All Scientists.” **American Scientist** 107

Patents

- U.S. Provisional Patent 63/333,877 – **Sole Inventor.** Filed April 2022
“COMPOSITIONS AND METHODS FOR REDUCING PARASITIC INFESTATION OF HONEY BEE HIVES”
Filed for conversion to full patent, May 2023 via UGA Innovation Gateway.

Grants & Funding Awarded

Approximately \$1.6 million in funding secured for my research program since joining University of Georgia, as Investigator or Supervisor / Advisor.

All amounts listed are awarded to Bartlett's research program; full grant details including total amounts, names and institutions of co-investigators etc are not listed for this abridged CV.

- USDA-NIFA-VSGP - **\$250K; CO-PI** 2024 - 26
Training veterinarians as stewards of honey bee health in the heartland of the Eastern US honey bee industry (Education, Extension and Training Grant)
- University of Georgia - CEID Seed Grant - **\$25K; Principal Investigator** 2025 - 26
- Dalan Animal Health Industry Partnership - **\$18K; Principal Investigator** 2025
- Georgia Beekeepers Association - Research & Education Grants - **\$40K; Principal Investigator.** 2025
In support of Bartlett's Research Program.
- Project Apis m. & Bayer Healthy Hives Fund - **\$50K; Principal Investigator.** 2025 - 27
Exploring juvenile-targeting pesticides as a bait component for the control and elimination of the invasive yellow-legged hornet Vespa velutina.
- University of Georgia Office of Global Engagement- Research Grants - **\$10K; Principal Investigator.** 2024
Linking Brazilian and American Beekeeping: A first step by estimating diet-dependent trophic discrimination factors for honeybees to understand diet-shifts during the COVID-19 Pandemic.
- Georgia Beekeepers Association - Research & Education Grants - **\$34K; Principal Investigator.** 2024
In support of Bartlett's Research Program.
- USDA-NIFA-AFRI - **\$300K; Principal Investigator.** 2024 - 25
Mounting an ecologically-informed response to Vespa velutina, a novel invasive threat to beekeeping and pollinators in the United States.
- Georgia Farm Bureau - **\$15K; Principal Investigator.** 2024
Research response to the yellow-legged hornet, Vespa velutina, a novel invasive threat to beekeeping and pollinators in the United States in Chatham County, GA.
- USDA-NIFA-SCRI - **\$385K; CO-PI** 2024 - 27
Developing and deploying novel tools to support varroa mite IPM for enhancing honey bee health for pollinating specialty crops.
- Project Apis m. & National Honey Board - **\$50K; Principal Investigator.** 2024 - 25
Extending a current PAm – NHB longitudinal experiment to assess whether supplementary feeding of protein patties meaningfully reduces viral infection burden, and if so, via what mechanism(s).
- University of Georgia Office of Research - Faculty Seed Grants - **\$20K; Principal Investigator.** 2023
In support of Bartlett's Research Program.
- Dalan Animal Health Industry Partnership - **\$125K; CO-PI.** 2023
Effects of different bacterin formulations on queen mediated larval immunity against AFB and EFB.
- Georgia Beekeepers Association - Research & Education Grants - **\$63K; Principal Investigator.** 2023
In support of Bartlett's Research Program.
- Georgia Farm Bureau - **\$15K; Principal Investigator.** 2023
Improved feeding and parasite treatment in Georgia's pollinator livestock.
- BBSRC Pump Priming Funds – In partnership with University of Liverpool (UK) - **\$8500; CO-PI.** 2023
Arsenophonus apicola impacts on pollinator health in the USA.
- Project Apis m. & National Honey Board - **\$50K; Principal Investigator.** 2023 - 25
Preventing and controlling small hive beetles using anthranilic diamides to promote supplementary pollen and protein feeding as a cornerstone of improving honey bee health in the Southeast.
- Georgia Beekeepers Association - Research & Education Grants - **\$30K; Principal Investigator.** 2022
In support of Bartlett's Research Program.

- North American Pollinator Protection Campaign - **\$5K; Principal Investigator.** 2021 - 22
Trialling a novel insecticide to control small hive beetle infestation and encourage supplementary pollen feeding as part of honey bee health.
- University of Georgia CEID Postdoctoral Fellowship - **\$200K; Recipient.** 2019 - 22
Honey bees as an EID playground.
- Natural Environment Research Council Training Grant - NE/L002434/1 - **\$135K. Recipient.** 2014 - 18
The role of population structure in the evolution of honeybee disease.

Lab Member Grants, Fellowships & Prizes

- Entomology & Graduate School Travel Awards - **\$1300 Austin Acree (MS Entomology)** 2025
- Odum & Graduate School Travel Awards - **\$1300 Audrey Harrod (PhD Ecology)** 2025
- Odum & Graduate School Travel Awards - **\$1300 Josiah Kaderis (MS Ecology)** 2025
- CAES Undergraduate Research Scholarship - **\$1500 – Luke Hendrix (BS Biological Sciences)** Fall 2025
- Wormsloe Graduate Fellow Assistantship - **\$127,250 - Daniel Gilley (PhD Ecology)** 2025 - 28
- UGA Outstanding Teaching Assistant Award - **Josiah Kaderis (MS Ecology)** 2025
- Georgia Power Ecology Research Award - **\$500 Josiah Kaderis (MS Ecology)** 2025
- CURO Scholarship - **\$1000 Luke Hendrix (BS Biological Sciences)** Spring 2025
- FPHB Graduate Student Fellowship - **\$7000 Ian Collins (PhD Entomology)** 2024
- Odum & Graduate School Travel Awards - **\$900 Audrey Harrod (MS/PhD Ecology)** 2024
- AAPA 2024 ABRC Travel Award - **\$1000 Ian Collins (MS/PhD Entomology)** 2024
- CURO Scholarship - **\$2000 Bella Burhanna (BS Biology)** Spring & Fall 2024
- Richardson & Golley Undergraduate Award - **\$500 Ethan Hackmeyer (BA Ecology)** 2023
- Best Undergraduate Research Poster; OSE - **Ethan Hackmeyer (BA Ecology)** 2023
- CURO Scholarship - **\$2000 Ethan Hackmeyer (BA Ecology)** Spring 2021 & Spring 2023
- CURO Scholarship - **\$1000 Tyler Washburn (BS Microbiology)** Spring 2021

Teaching & Supervision

- **Professional Staff Supervised**
 - Lily Fulton; Lab Manager – UGA 2025 +
 - Victor Felix (0.2FTE share); Scientific Programmer – UGA 2024 +
 - Dr Jennifer Berry; Research Professional – UGA 2024 - 25
 - Jesse Freeze; Lab Manager – UGA 2023 - 25
 - Jack Garrison, Research Technician – UGA 2022 +
- **Graduate Students Supervised**
 - Daniel Gilley; PhD Ecology – UGA 2024 +
 - Austin Acree; MS Entomology – UGA 2024 +
 - Josiah Kaderis; MS Ecology – UGA 2023 +
 - Audrey Harrod; PhD Ecology – UGA (*Upgraded from MS*) 2023 +
 - Ian Collins; PhD Entomology – UGA (*Upgraded from MS*) 2023 +
- **Visiting Scholars Supervised**
 - João Pedro Vieira Fornasari; BS Biology – Unicamp, Brazil 2024 - 25
- **Undergraduate Research Projects Supervised**
 - Luke Hendrix (Biological Sciences & Entomology, UGA) – CURO Scholar, CAES Research Scholar 2024 +
 - Bella Burhanna (Ecology, UGA) – CURO Scholar 2023 - 24
 - Tyler Washburn (Microbiology, UGA) – CEID Research Intern; CURO Scholar; Honours Project. 2020 - 22
 - Ethan Hackmeyer (Ecology, UGA) – CEID Research Intern & CURO Scholar. 2020 - 23
 - Carlos Martinez-Mejia (Epidemiology & Anthropology, NYU) – Pop. Bio. Of Infectious Diseases REU. 2021
- **Extensive teaching portfolio across multiple Universities and all academic levels.**

At University of Georgia:

- Courses taught, including title, enrollments, and credit hours
 - Bees and Beekeeping; ENTO3010; 3CR; Enrollment: 50; Spring 2026
 - Science Communication; ECOL 3440; 3CR; Enrollment: 14; Spring 2026 - *Co-Taught*
 - Sustainable Agriculture; ECOL/ENTO 3700; 3CR; Enrollment: 20; Spring 2026

- iv. Science Communication; ECOL 3440; 3CR; Enrollment:15; Fall 2025 - *Co-Taught*
- v. Science Communication; ECOL 3440; 3CR; Enrollment:18; Spring 2025 - *Co-Taught*
- vi. Sustainable Agriculture; ECOL/ENTO 3700; 3CR; Enrollment: 14; Spring 2025
- vii. Probs in Entomology; ENTO 8900; 2CR; Enrollment: 13; Spring 2024
- viii. Science Communication; ECOL 3440; 3CR; Enrollment:16; Spring 2024 - *Co-Taught*
- ix. Organic Agriculture; ECOL 3700; 3CR; Enrollment: 12; Spring 2024
- x. Directed Reading; ECOL 3900; 1-3CR; Enrollment: 3; Summer 2023
- xi. Special Problems in Entomology; ENTO 3900; 1-3CR; Enrollment: 6; Spring 2023
- xii. Ecology; ECOL 3500; 3CR; Enrollment: 157; Spring 2023 - *Co-Taught*
- xiii. Probs in Entomology; ENTO 8900; 3CR; Enrollment: 2; Spring 2023
- xiv. Vectored Diseases; IDIS/ECOL 8240; 2CR; Enrollment: 6; Spring 2023 - *Co-Taught*
- xv. *Guest Lectures*
 - 1. Honey Bee Health – SAMS 5425 CVM. Annually 2021 – current.
 - 2. Bees, Beekeeping, and Pollinator Conservation – ENTO3010. Annually 2021 – 2023.
 - 3. Ecology of Infectious Diseases – FYOS 1001. Annually 2020 – current.
 - 4. ICON Graduate Seminar Series. 2019

b. Development of new courses

- i. ECOL/ENTO3700 "Agroecology and Sustainable Farming" Developed over 2023; taught 2024 onwards.

Prior to University of Georgia:

- Infectious Disease Dynamics – IB114 U.C. Berkeley. *Bachelors (Junior & Senior) level class. Instructor.* 2018 - 20
- R & Quantitative Methods – Integrative Biology, U.C. Berkeley. *Ph.D. level class. Course co-lead.* 2017 - 18
- Statistical Modelling – BIOM4025 University of Exeter. *Masters level class. Joint course lead & head lab instructor.* 2015 - 16
- Analysis of Biological Data – BIO2426 University of Exeter. *Bachelors (2nd year) level class. Teaching assistant.* 2015 - 16
- Critical & Scientific Reasoning – BIO2422 University of Exeter. *Bachelors (2nd year) level class. Teaching assistant.* 2015 - 16
- Biodiversity & Conservation – BIO2406 University of Exeter. *Bachelors (2nd year) level class. Teaching assistant.* 2015 - 16
- Honours Thesis Statistics – BIO3136 University of Exeter. *Bachelors (final year) research class. Lead tutor & organiser.* 2015 - 16
- Preparing to Graduate – LES3001 University of Exeter. *Bachelors (final year) level class. Teaching assistant.* 2015
- Physiology – BIO1420 University of Exeter. *Bachelors (1st year) level class. Teaching assistant.* 2015
- GIS – GEO2440 University of Exeter. *Bachelors (2nd year) level class. Teaching assistant.* 2014 - 15
- Research Skills & Statistical Methods – ENV00030H University of York. *Masters level class. Teaching assistant.* 2014

Academic Service

- **Editorial Service**
 - Subject Editor – Journal of Economic Entomology; Apiculture and Social Insects Section 2025 +
- **Grant Reviews & Panel Service**
 - North Carolina Biotechnology Center (Translational Research Grants) – Ad Hoc Reviewer 2025
 - S-SARE (Research & Extension Grants; Regional) – Ad Hoc Reviewer 2024
 - USDA-NIFA-AFRI (Postdoctoral Fellowships; National) – Reviewer and Panellist 2023
 - USDA-NIFA-AFRI (Pollinator Health Panel; National) – Reviewer and Panellist 2021
- **Graduate Student Committees**
 - Piper Cole - *PhD Entomology, UGA* 2025 +
 - Alexa Watson – *Masters Natural Resources & Environmental Education, UGA* 2025 - 26
 - Skyler Nichols – *Masters Comparative Biomedical Sciences, UGA* 2024 +
 - Ankush Sharma – *Masters Crop and Soil Sciences, UGA* 2022 - 25
 - Jennifer Berry – *PhD Entomology, UGA* 2020 - 24
- **Professional Service to the University of Georgia**
 - o Public Service and Outreach Committee: Odum School of Ecology. 2025 - current
 - Public Service & Outreach Strategic Planning Committee 2025-2026
 - o Syllabus Review Committee: Department of Entomology, CAES. 2025-2026
 - o Search Committee: Insect Ecologist (Assistant Professor, TT); Department of Entomology, CAES. 2025-2026
 - o Search Committee: Extension Apiculture and Pollinator Health Specialist (Open Rank, TT); Department of Entomology, CAES. 2024-2025
 - o Search Committee: Business Manager; Entomology Department of Entomology, CAES. 2024-2025

- Search Committee: Odum School of Ecology Research & Teaching Postdoctoral Scholar Program; Odum School of Ecology. 2023
- UGA Pollinator Campus Committee 2024 – current
 - Advisory Board: UGA Vet. Med. Pollinator Garden Committee 2024 – 2025
- Search Committee: Extension Apiculture and Pollinator Health Specialist (Open Rank, TT); Department of Entomology, CAES. 2024-2025
- Search Committee: Business Manager; Entomology Department of Entomology, CAES. 2024-2025
- Search Committee: Odum School of Ecology Research & Teaching Postdoctoral Scholar Program; Odum School of Ecology. 2023
- Parasites & Behaviour Working Group – Co-Chair; Odum School of Ecology 2021 - 2023

– **British Ecological Society** – Education and Careers Committee Standing Member 2018 - 22
5-year planning and review; budget approvals; events organisation and management; applicant reviews.

– **British Ecological Society** – Early Careers Working Group Member 2015 - 22
Conference and events organisation; society statement preparation; policy review; advocacy.

– **Society for Open, Reliable & Transparent EEB** – Membership Committee 2021 - 23
Chairing; conference organisation; goal setting and progress assessment. – Committee Chair 2022 - 23

– **ALDER Ecological Network – British Ecological Society (LGBTQ+ Ecologist network)** – Chair 2022 - 23
Committee chairing; internal review, policy drafting, agenda writing & meeting planning, goal prioritisation.

– **Scientific Journal Peer Review:** completed to date **55 reviews** for **28 journals** (see below).
Ecology Letters; Evolution; Frontiers in Ecology and the Environment; Ecology; Journal of Evolutionary Biology; Journal of Theoretical Biology; Journal of Functional Ecology; Ecology and Evolution; Evolution Letters; Evolutionary Ecology; Journal of Invertebrate Pathology; Journal of Economic Entomology; Journal of Insect Science; Apidologie; Frontiers in Ecology and Evolution; Teaching Issues and Experiments in Ecology; Biological Invasions; Global Change Biology; Animal Behaviour; Current Zoology; Journal of Apicultural Research; Journal of Mammalogy; Entomologia Experimentalis et Applicata; PLOS One; PeerJ; Land Degradation & Development; Theoretical and Applied Climatology; Journal of Botany Research; Environmental Toxicology and Chemistry; Insects.

Professional Development, Broader Mentorship, & Inclusivity

- Event lead for celebratory LGBTQ+ Mixer Entomology Drag Show; ESA Annual Meeting 2024 - 25
At the invitation of the society president for the Entomological Society of America.
- Expert Panellist for Entomological Society of America Entomological Advocacy Workshop 2025
- Panellist for Entomological Society of America ECR Careers Workshop 2024
- Founding committee member of British Ecological Society Learning & Teaching S.I.G. 2016 - 22
Continuing activity in ecological pedagogy research papers as a collaborator & co-author.
- Founding team mentor & Chair for BES LGBTQ+ mentoring scheme “ALDER Network”. 2019 - 20
- BES annual meeting workshop co-lead on ‘*Managing Others & Mentoring*’. 2019
- ESA conference poster on *Pedagogy & Quantitative Teaching for Biologists*. 2017
- BES annual meeting workshop proposer & lead on ‘*Building your teaching portfolio as an E.C.R.*’ 2017
- Mentor & panellist for International Student Exchange Scheme (Biology, U.C. Berkeley). 2016 - 18
- Mentor & Lead Mentor for British Ecological Society undergraduate field courses. 2015 - 16
- Longstanding commitment to training in mentorship, pedagogy, and inclusivity training

University of Georgia

- ‘Food, Farming, and Rural Life’ Faculty Learning Community – Fall ‘24, Spring ‘25 2024 - 25
- Food Systems Faculty Learning Sessions – Faculty learning community, met monthly Spring ‘24 2024
- DELTA Project x2 workshops on reflective pedagogy, self-study and student evaluations. 2024
- FEED Workshop: 2-day UGA training to incorporate equity and diversity in food systems teaching. 2023
Used (re)design the syllabus for ECOL3700 - Agroecology and Sustainable Farming
- DEI in Ecology Workshop – taught by Dr Madhusudan Katti – 1 day. 2023
“Five shifts in research and teaching practices towards a more inclusive and ethical ecology”.
- Faculty Mentoring Workshops: x2 afternoons sessions. Delivered by the UGA Office of Faculty Affairs. 2023
- **Taught:** ‘Managing Others and Mentoring’ Two-hour Workshop for PGRs and postdocs 2019
Delivered at the request of the British Ecological Society, at their pre-conference training day (Belfast).

UC Berkeley

- ‘Understanding Mentoring as a Graduate Student’ half-day workshop. 2018
Delivered by the Department of Environmental Science, Policy, and Management.
- “Mentoring International Undergraduates in Biology” – half-day workshop. 2017
Hosted by the UC Berkeley Global Engagement Office.

- **Taught:** 'Mentoring Undergraduates' (1 day) 2016
Delivered as peer instructor and lead mentor for the second BES Undergraduate Summer School.
- University of Exeter**
- **Appointed:** Associate Fellow of the Higher Education Academy. 2015
- 'Mentoring Undergraduates' Training (1 day) 2015
In preparation for the inaugural BES Undergraduate Summer School. Delivered by the British Ecological Society.
- 'Mentoring Undergraduates' 1-day workshop for PGRs 2015
University of Exeter, delivered by the Academic Professional Programme Office.
- 'Diversity, Equality and Inclusion in Teaching' short course for all staff 2015
University of Exeter, delivered by the Academic Professional Programme Office.
- "Overcoming Unconscious Bias" 1-day workshop 2014
Delivered for faculty and staff at the University of Exeter by an external consultant.

External Invited Seminars – Academic Institutions

- Program in Ecology and Evolutionary Biology, Washington University, St Louis (*Upcoming*) 2026
- Department of Biological Sciences, Vanderbilt University, USA 2025
- School of Environmental Sciences, University of Guelph, ON Canada 2025
- School of Biological Sciences, University of Edinburgh, UK 2024
- Department of Entomology, Michigan State University, USA 2024
- School of Biological Sciences, Illinois State University, USA 2024
- Department of Biology, Emory University, USA 2024
- School of Mathematics & Statistics, University of Sheffield, UK 2023
- Department of Applied Ecology, North Carolina State University, USA 2023
- Department of Natural Resource Management, Iowa State University, USA 2023
- Department of Entomology, Purdue University USA 2023
- Department of Biology, University of Maine; USA 2022
- Department of Entomology, Pennsylvania State University; USA 2022
- School of Biological Sciences; University of Nebraska-Lincoln; USA 2022
- Department of Ecology, Evolution, and Organismal Biology; Kennesaw State University, USA 2022
- Department of Entomology; University of Georgia, USA 2022
- Department of Entomology; University of Minnesota, USA 2021
- Department of Biological Sciences; Macquarie University, Australia 2021
- School of Biology; University of Leeds, UK 2021
- Department of Biological Sciences; University of Pittsburgh, USA 2020
- Department of Biology; University of Florida, USA 2019
- Department of Ecology, Evolution, and Organismal Biology; Kennesaw State University, USA 2019
- Department of Integrative Biology; University of California Berkeley, USA 2019
- Department of Biology; Emory University, USA 2019
- Department of Biology; San Jose State University, USA 2018

Academic Conference Presentations

Co-Authorships on Conference Presentations by other collaborators not tracked.

- American Bee Research Conference – Mobile, USA – **Speaker** 2025
- Entomological Society of America Annual Meeting – Portland, USA – **Invited Speaker** (Symposium) 2025
- Honey Bee Veterinary Consortium Conference – TAMU TX, USA – **Invited Speaker** 2025
- American Bee Research Conference – Reno, USA – **Poster** 2025
- British Ecological Society Annual Meeting – Liverpool, UK – **Speaker** 2024
- Entomological Society of America Annual Meeting – Phoenix, USA – **Invited Speaker** (Symposium) 2024
- ESA SE Branch - Sociobiology and Health of Eusocial Insects – Augusta GA – **Invited Speaker** 2024
- ESA SE Branch - Pollinators in the Anthropocene – Augusta GA – **Invited Speaker** 2024
- American Bee Research Conference – New Orleans, USA – **Speaker** 2024
- Entomological Society of America Annual Meeting – National Harbor, USA – **Poster** 2023
- Honey Bee Veterinary Consortium Conference – North Carolina State University – **Invited Speaker** 2023
- Wildlife Disease Association – University of Georgia, USA – **Invited Workshop Lead** 2023

- COLOSS Small Hive Beetle Task Force Conference, Mississippi State University, USA – **Speaker** 2023
- Ecology and Evolution of Infectious Diseases – Penn State, USA – **Invited Speaker** (Workshop) 2023
- Pollinator Biology, Health and Policy – Penn State, USA – **Poster** 2023
- American Bee Research Conference – Jacksonville, USA – **Speaker** 2023
- Entomological Society of America – Vancouver, Canada – **Speaker and Event Lead** 2022
- Protecting Pollinators in Urban Landscapes – University of Georgia, USA – **Invited Speaker; Poster** 2022
- Ecology & Evolution of Infectious Diseases – Emory University, USA – **Speaker** 2022
- Ecology Across Borders (BES) – Liverpool, UK – **Poster** 2021
- North American Pollinator Protection Conference – Online – **Invited Speaker** 2021
- Ecology and Evolution of Infectious Disease – Montpellier, FR – **Poster** 2021
- BES Quantitative Ecology Annual Conference – Online – **Invited Keynote Speaker** 2020
- British Ecological Society Annual Meeting – Belfast, UK – **Speaker & Workshop Lead** 2019
- Ecology & Evolution of Infectious Diseases – Princeton University, USA – **Poster** 2019
- British Ecological Society Annual Meeting – Birmingham, UK – **Speaker & Poster, Session Presider** 2018
- Ecology of Infectious Diseases International Research Exchange – San Francisco, USA – **Speaker** 2018
- Ecology Across Borders (BES) – Ghent, BE – **Speaker & Workshop Lead** 2017
- Ecological Society of America Annual Meeting – Portland, USA – **Session Presider & Poster** 2017
- Ecology & Evolution of Infectious Diseases – U.C. Santa Barbara, USA – **Poster** 2017
- British Ecological Society Annual Meeting – Liverpool, UK – **Speaker** 2016
- Exploring Research in Cornwall – University of Exeter, UK – **Speaker** 2016
- Falmouth Marine Sciences Conference – Falmouth College, UK – **Invited Keynote Speaker** 2015
- Student Conference on Conservation Science – University of Cambridge, UK – **Poster** 2015
- Exploring Research in Cornwall – University of Exeter, UK – **Speaker** 2015
- Megafauna and Ecosystem Function – University of Oxford, UK – **Speaker** 2014

Lab Member External Academic Conference Presentations

Co-Authorships on Conference Presentations by other collaborators not tracked.

- Entomological Society of America – Portland, OR – **Presentation** 2025
Audrey Harrod; PhD (Ecology)
- Entomological Society of America – Portland, OR – **Presentation** 2025
Josiah Kaderis; Masters (Ecology)
- Entomological Society of America – Portland, OR – **Presentation** 2025
Austin Acree Harrod; Masters (Entomology)
- Entomological Society of America – Portland, OR – **Presentation** 2025
Ian Collins; PhD (Entomology)
- ABRC – Reno, NV – **Poster** 2025
Ian Collins; PhD (Entomology)
- SICB – Atlanta, GA – **Poster** 2025
Audrey Harrod; PhD (Ecology)
- SICB – Atlanta, GA – **Poster** 2025
João Pedro Vieira Fornasari; Undergraduate Visiting Researcher (Ecology)
- SICB – Atlanta, GA – **Poster** 2025
Josiah Kaderis; Masters (Ecology)
- Entomological Society of America – Phoenix, AZ – **Poster** 2024
Audrey Harrod; PhD (Ecology)
- Entomological Society of America – Phoenix, AZ – **Poster** 2024
João Pedro Vieira Fornasari; Undergraduate Visiting Researcher (Ecology)
- ABRC – New Orleans, LA – **Invited Talk** 2024
Ian Collins; PhD (Entomology)
- Protecting Pollinators in Urban Landscapes – University of Georgia, USA – **Poster** 2022
Ethan Hackmeyer; Undergraduate (Ecology)

- Ecology and Evolution of Infectious Disease – Montpellier, FR – **Poster**
Tyler Washburn; Undergraduate (Microbiology) 2021

Outreach, Extension, and Science Communication

Keynotes & Large Events (*> 100 attendees and state, regional or national scope*)

- Georgia Beekeepers Association Annual Meeting – GA (**Conference Organisation Committee**) 2023 +
- Eastern Missouri Beekeepers Association Conference – MO (**Keynote Upcoming**) 2026
- Assembly of the Honey Bee Health Coalition – CO (**Invited**) 2025
- Pacific Northwest Annual Beekeeper Conference – WA (**Keynote, 1**) 2025
- Minnesota Honey Producers Association – MN (**Keynotes, 2**) 2025
- Queensland Beekeepers Association – Australia (**Keynotes, 2**) 2025
- Victoria Apiarists Association – Australia (**Keynote, 1**) 2025
- Australian Crop Pollination Association – Australia (**Keynotes, 2**) 2025
- American Beekeeping Federation Annual Meeting - NV (**Invited Speaker**) 2025
- North America Honey Bee Expo – KY (**Keynotes, 2**) 2025
- Pennsylvania Beekeepers Association Annual Meeting – PA (**Keynotes, 2**) 2024
- South Carolina State Beekeepers Association Annual Meeting – SC (**Keynotes, 2**) 2024
- Western Apicultural Society Annual Meeting – (**Keynote, 1**) 2024
- Costal Empire Beekeepers Association Annual Meeting – (**Keynotes, 3**) 2024
- Apiary Inspectors of America Annual Meeting – LA (**Invited Speaker**) 2024
- Nashville Beekeepers Association Annual Meeting – TN (**Keynote, 1**) 2023
- Iowa Honey Producers Association Annual Meeting – IA (**Keynotes, 2**) 2023
- Connecticut Beekeepers Association Meeting – CT 2023
- Northeast Oklahoma Beekeepers Association Annual Meeting – OK (**Keynotes, 2**) 2023
- Manitoba Beekeepers Association Annual Meeting – Canada (**Keynotes, 2**) 2023
- Commercial Beekeepers of Georgia Annual Meeting – GA (**Keynote, 1**) 2023
- Young Harris Beekeeping Institute – GA (**Conference Organisational Committee**) Annual 2015 - 22
More than 20 Keynotes, classes, and lectures delivered over the 7 years of participation.
- Maine State Beekeepers Association Annual Meeting – ME (**Keynotes, 2**) 2022
- Georgia Farm Bureau Annual Meeting – GA (**Invited Speaker**) 2022
- South Carolina State Beekeepers Association Annual Meeting – SC (**Keynotes, 2**) 2022
- Georgia Beekeepers’ Association Fall Convention – GA (**Keynotes, 2**) 2022
- Maryland State Beekeepers Association Annual Meeting – MD (**Keynotes, 2**) 2022
- Georgia Beekeepers Association Spring Convention – GA (**Keynote, 2**) 2022
- Texas Beekeepers Annual Convention – TX (**Keynote, 2**) 2021
- Oregon State Beekeepers Association Conference – OR (**Keynote, 1**) 2021
- Western Pennsylvania Annual Beekeepers’ Meeting – PA (**Keynotes, 3**) 2020
- South Carolina State Beekeepers Association Annual Meeting – SC (**Keynotes, 2**) 2020
- Georgia Beekeepers’ Association Fall Convention – GA (**Keynotes, 2**) 2019
- Eastern Apicultural Society Annual Meeting – SC (**Invited**) 2019

Local Club Talks & Small Events (*< 100 attendees or local in scope*)

- State Botanical Gardens Beginners Beekeeping Course – GA Annual 2022 - 26
- Ontario Beekeepers Monthly Seminar – Canada 2026
- Northeast Mountain Beekeepers’ Association – GA 2026
- Tennessee Valley Beekeepers Association - TN 2026
- Forsyth County Beekeepers Association - GA 2026
- Eastern Piedmont Beekeepers Association – GA 2026
- Lake Hartwell Beekeepers Association – GA 2026
- Colorado State Honey Bee Veterinarians Association – CO 2025
- Northeast Mountain Beekeepers’ Association – GA 2025
- Coweta Beekeepers Association – GA 2025

– Palm Beach Beekeepers' Association – FL	2024
– Walker County Honey Bee Festival – GA	2024
– West Georgia Beekeepers Association – GA	2024
– Charleston Bee Brunches – SC	2024
– Eastern Piedmont Beekeepers' Association – GA	2024
– Oglethorpe County Beekeepers' Association – GA	2024
– Northeast Mountain Beekeepers' Association – GA	2024
– Tara Beekeepers' Association – GA	2024
– West Georgia Beekeepers Association – GA	2024
– Tri-County Beekeepers' Association – GA	Annual 2019 - 24
– Montgomery County Beekeepers' Association – MD	2024
– Eastern Piedmont Beekeepers' Association – GA	2023
– Boston Areas Beekeepers Association – MA	2023
– Forsyth County Beekeepers Association – GA	2023
– Alameda Beekeepers Association – CA	2023
– Northeast Mountain Beekeepers' Association – GA	2023
– Gwinnett County Beekeepers' Association – GA	2023
– Lake Hartwell Beekeepers Association – GA	2023
– Dunwoody Beekeepers Association – GA	2023
– Metropolitan Atlanta Beekeepers' Association – GA	2023
– Dunwoody Beekeepers Association – GA	2022
– Northeast Mountain Beekeepers' Association – GA	2022
– Beekeepers of Northern Shenandoah – VA	2022
– Gwinnett County Beekeepers' Association – GA	2021
– Northeast Mountain Beekeepers' Association – GA	2021
– Montgomery County Beekeepers' Association – PA	2021
– Oglethorpe County Beekeepers' Association – GA	2021
– Raritan Valley Beekeepers' Association – NJ	2021
– Metropolitan Atlanta Beekeepers' Association – GA	2020
– Public lecture & screening of ' <i>The Pollinators</i> ' documentary –Cine, Athens GA	2020
– Northeast Mountain Beekeepers' Association – GA	2020
– Jekyll Island Public Biology Lecture Series – Georgia Sea Turtle Center, GA	2019
– Tara Beekeepers' Association – GA	2019
– Lake County Beekeepers' Association – GA	2019
– Eastern Piedmont Beekeepers' Association – GA	2019
– Northeast Mountain Beekeepers' Association – GA	2019
– Metropolitan Atlanta Beekeepers' Association – GA	2018
– <i>Taste of Science</i> Public Lecture Series – San Francisco, CA	2017
– South-West England Honeybee Husbandry and Disease Workshop – Falmouth, UK	2015
– Falmouth Beekeeping Society – Falmouth, UK	2015

Print and Digital Media

– Beekeeping YouTube Videos; Collaborating with Georgia Beekeeper Bob Binnie (>75K subscribers)	
– “Extended Release Oxalic Acid Testing PT 2” – >10K views in 2 days	2025
– “Extended Release Oxalic Acid Testing PT 1” – >12K views in 7 days	2025
– “Yellow legged Hornet” – >10K views in 7 days	2023
– “Small Hive Beetle Control” – 40K views in 6 months	2023
– “Apis mellifera mellifera and Isle of Wight Disease”	2022
– “Feeding bees Sucrose Syrup”	2022
– “Oxalic Acid Research Results 2022 Part 2”	2022
– “Oxalic Acid Research Results 2022 Part 1”	2022
– “Moving forward with Oxalic Acid Mite Treatment Research”	2022
– “Oxalic Acid Research Results 2021 Part 3”	2021
– “Oxalic Acid Research Results 2021 Part 2”	2021
– “Oxalic Acid Research Results 2021 Part 1”	2021

- *Beekeeping Today* – Beekeeper Industry Podcast (Featured Guest) 2025
- *Inside the Hive* – Beekeeper Industry Podcast (Featured Guest) 2024
- *Two Bees in a Podcast* – Beekeeper Industry Podcast (Featured Guest) 2021, 24
- *At Home Beekeeping* – Beekeeper Industry Podcast (Featured Guest & Host) 2023, 24
- Quarterly columnist for *The Niche* British Ecological Society member magazine 2018 - 23
- *Sewers of Paris* – General Interest Podcast (Featured Guest), hosted by Matt Baum 2021
- *An Beachaire* – Practitioner Magazine – Ireland 2020
- *American Bee Journal* – Practitioner Magazine – USA 2019
- *Bee Farmer* – Practitioner Magazine – UK 2019
- “The Natural Selection” – Natural History Podcast (Featured Guest) 2015
- Book Acknowledgements: NYT Bestseller “Does it Fart?” (2017) and sequels “True or Poo? (2020)” & “Believe it or Snot (2019)”; “Everything You Know About Minibeasts is Wrong!” (2022).

Wider Engagement

- Extremely extensive mainstream media features with estimated reach per Marketing & Communication Depts. in the hundreds of millions, including NPR, BBC, PBS, and others.
- Lecture series for Liverpool World Museums (UK) as part of the exhibition ‘Bees: A Story of Survival’ 2024
- Featured as sole focus of UGA Diversity awards-winning documentary ‘Queen Bee’ 2022
- Athens – Clarke County ‘Downtown Parade of Lights’ Award-Winning Float / Queen Bee 2021
- ‘Science is a Drag’ featured entertainer 2020, 21
- Platinum-level fundraiser for Athens-based Boybutante AIDS Foundation, Inc. 2021 +
- Two-time runner-up for the British Ecological Society ‘Science Slam’ SciComm competition 2018, 19
- U.C. Berkeley *Splash!* teacher 2016 - 17
- British Ecological Society Schools Ambassador 2015 - 16
- ‘Science in the Square’ Public Outreach Event- Full Day of Children’s Science Programming 2015 - 16

Collective Lab Group Outreach

- Botanical Gardens of Georgia ‘Insectival’ - Booth Annual 2023 +
- Atlanta Botanical Gardens Fall Festival - Booth 2024
- Georgia Beekeepers’ Association Fall Convention - Breakout Session Lectures 2024
- Wormsloe Historic Site Scientific Outreach Day - Booth and Panel Discussion 2024

Fellowships, Awards, & Honours

- Appointed to Executive Board of the Georgia Beekeepers Association 2025 +
- Entomological Society of America – Science Policy Fellow 2023 - 25
- University of Georgia Research Communication Award (*Nominated*). 2024
- Honourary Membership – Palm Beach Beekeepers’ Association 2024
In recognition of exemplary service to the beekeepers of the Southeastern United States.
- Honourary Membership – Eastern Piedmont Beekeepers’ Association 2021
In recognition of exemplary service to the beekeepers of Athens-Clarke County.
- Exploring Research in Cornwall – Best Research Talk (1st place). 2016
- Exeter Best Postgraduate Teaching Award (*Nominated*). 2016
- Exploring Research in Cornwall – Best Research Talk (2nd place). 2015
- Borradale Prize – College prize for highest-mark graduand in Natural Sciences (Zoology). 2013
- Tripos Prize – College prize for highest achieving graduands. 2013