

Lewis J. Bartlett

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

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Website: bartlett.science Scholar: [goo.gl/WddJ71](https://scholar.google.com/citations?user=WddJ71)

Education

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

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.

Current Major Research Projects – Externally Funded

- **Exploring bee-safe pesticidal macroparasite control to enable supplemental feeding of managed honeybees.**
Pollinator Partnership & Project Apis m. / National Honey Board Funded & Georgia Farm Bureau
Principle Investigator; student supervision, experimental design, and full oversight of manuscripts. Full patent (63/333,877) filed as part of development of new parasite control mechanisms in beekeeping.
- **Putative evolutionary adaptation of the Varroa-virus parasite system in managed honeybees.**
NIH (Expired)– University of Georgia, Emory University, U.C. Berkeley.
Lead author on empirical/theory manuscripts; experimental design, statistical analysis, manuscript drafting.
OVPI SEED Grant – University of Georgia
PI on developing expansion of this system to include how adaptation to acaricide use alters vectoral capacity.
- **Control of Varroa: oxalic acid, amitraz resistance, and tritricidal compounds.**
FFAR, sSARE – University of Georgia, Auburn University, Ohio State University, EPA, USDA-APHIS.
Co-author or senior author on empirical manuscripts. Experimental design, laboratory trials, field trials, statistical analysis, student supervision. Multiple multi-state working groups.
USDA-NIFA-SCRI Grant – Ohio State University (& others incl. University of Georgia)
CO-PI on \$4million grant to continue this applied research. Sole PI at UGA.
- **Research Response to the Yellow-legged hornet.**
USDA-NIFA-AFRI, Georgia Beekeepers Association, & Georgia Farm Bureau Funded
Principle Investigator; student supervision, experimental design, and full oversight of manuscripts.

Publications

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

*Undergraduate student mentee authors are denoted by *.*

Published Peer-Reviewed Research - Lead Author

- **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
- **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
- **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
- **LJ Bartlett** "Frontiers in Effective Control of Problem Parasites in Beekeeping." (2022). *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
- **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 Visser, 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
- **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
- **LJ Bartlett**, T Newbold, DW Purves, DP Tittensor, MJB 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

Published Peer-Reviewed Research - Senior Author

- KS Delaplane, K Hagan, K Vogel, **LJ Bartlett** (2024) "Mechanisms for polyandry evolution in a complex social bee." **Behavioural Ecology and Sociobiology** 78.
- 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
- E Hackmeyer*, KS Delaplane, TJ Washburn*, **LJ Bartlett** (2023) "Chlorantraniliprole shows promise as a preventative treatment for small hive beetle parasites during protein feeding of honey bees." **Journal of Insect Science** 23

Published Peer-Reviewed Research - Co-Author

- 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
- GM Daykin et al. (2023) "AgroEcoList 1.0: A checklist to improve reporting standards for ecological research in agriculture" **PLOS ONE** 18
- C Prouty, **LJ Bartlett**, V Kruschik, S Altizer (2023) "Adult monarch butterflies show high tolerance to neonicotinoid insecticides." **Ecological Entomology** 48.
- E Visser, L Uricchio, **LJ Bartlett**, N DeNamur*, A Yarkan*, D Alhassani*, M Boots (2022) "The Evolution of Host Specialization in an Insect Pathogen." **Evolution** 76
- 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.

- 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
- 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
- JL Knapp, **LJ Bartlett**, JL Osborne (2017) “Re-evaluating strategies for pollinator dependent crops: how useful is parthenocarpy?” **Journal of Applied Ecology** 54

Published Commentary

- E Demard & **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

Pre-Prints

- **LJ Bartlett**, M Boots, N Sokolov “Avoiding three tragedies of tolerance in Darwinian beekeeping and pathogen spillover into native wild bees.” **Under review.**
- E Visher, H Mahjoub*, K Soufi*, N Pascual*, V Hoang*, **LJ Bartlett**, K Roberts, S Meaden, M Boots “The evolution of host resistance to a virus is determined by resources, historical contingency, and time scale.” **Under review.**

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

- University of Georgia Office of Global Engagement- Research Grants - **\$10K; Principle Investigator.** 2024
- Georgia Beekeepers Association - Research & Education Grants - **\$16K; Principle Investigator.** 2024
- USDA-NIFA-AFRI - **\$300K; Principle Investigator.** 2024 - 25
- Georgia Farm Bureau - **\$15K; Principle Investigator.** 2024
- USDA-NIFA-SCRI - **\$385K; CO-PI** 2024 - 27
- Project Apis m. & National Honey Board - **\$50K; Principle Investigator.** 2024 - 25
- University of Georgia Office of Research - Faculty Seed Grants - **\$20K; Principle Investigator.** 2023
- Dalan Animal Health Industry Partnership - **\$125K; CO-PI.** 2023
- Georgia Beekeepers Association - Research & Education Grants - **\$63K; Principle Investigator.** 2023
- Georgia Farm Bureau - **\$15K; Principle Investigator.** 2023
- BBSRC Pump Priming Funds – In partnership with University of Liverpool (UK) - **\$8500; CO-PI.** 2023
- Project Apis m. & National Honey Board - **\$50K; Principle Investigator.** 2023 - 24
- Georgia Beekeepers Association - Research & Education Grants - **\$30K; Principle Investigator.** 2022
- North American Pollinator Protection Campaign - **\$5K; Principle Investigator.** 2021 - 22
- University of Georgia CEID Postdoctoral Fellowship - **\$200K; Recipient.** 2019 - 22
- Natural Environment Research Council Training Grant - NE/L002434/1 - **\$135K. Recipient.** 2014 - 18

Lab Member Grants, Fellowships & Prizes

- 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 (Ecology)** Spring & Fall 2024
- Richardson & Golley Undergraduate Support Award - **\$500 Ethan Hackmeyer (Ecology)** 2023
- Best Undergraduate Research Poster; OSE - **Ethan Hackmeyer (Ecology)** 2023
- CURO Scholarship - **\$2000 Ethan Hackmeyer (Ecology)** Spring 2021 & Spring 2023
- CURO Scholarship - **\$1000 Tyler Washburn (Microbiology)** Spring 2021

External Invited Seminars – Academic Institutions

– Department of Entomology, Michigan State University	2024
– School of Biological Sciences, Illinois State University	2024
– Department of Biology, Emory University	2024
– School of Mathematics & Statistics, University of Sheffield	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

– 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

Academic Service

- **Federal Grant Reviews & Panel Service**
 - USDA-NIFA-AFRI (Postdoctoral Fellowships) - Panellist 2023
 - USDA-NIFA-AFRI (Pollinator Health Panel) - Panellist 2021
- **Editorial Boards**
 - Frontiers in Insect Science – Specialist Subject Editor: Insect Health & Pathology 2023
- **Graduate Student Committees**
 - Ankush Sharma – *Masters & PhD Crop and Soil Sciences, University of Georgia* 2022 - 24
 - Jennifer Berry – *PhD Entomology, University of Georgia* 2020 - 24
- **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.
- **Center for Ecology of Infectious Diseases** – Parasites & Behaviour Working Group – Chair 2021 +
Goals and agenda setting; meeting chairing; project management & supervision; post-graduate mentoring.
- **Scientific Journal Peer Review:** completed to date **48 reviews** for **26 journals** (see below).
Ecology Letters; 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 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; Insects.

Lab Member External Academic Conference Presentations

- ABRC – New Orleans, LA – **Invited Talk** 2024
Ian Collins; Masters/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** 2021
Tyler Washburn; Undergraduate (Microbiology)

Pedagogical Development, Mentorship, & Inclusivity

- Event lead for celebratory LGBTQ+ Mixer Entomology Drag Show; ESA Annual Meeting 2022, 24
At the invitation of the society president for the Entomological Society of America.
- 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 for BES LGBTQ+ mentoring scheme. 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 Systems Faculty Learning Sessions – Faculty learning community, met monthly Spring ‘24 2024

- DeLTA Project x2 workshops on reflective pedagogy, self-study and of 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.

Teaching & Supervision

– Graduate Students Supervised

- Daniel Gilley; PhD Ecology – UGA 2024 +
- Jordan Gauthier; MS Entomology – UGA 2024 +
- Austin Acree; MS Entomology – UGA 2024 +
- Josiah Kaderis; MS Ecology – UGA 2023 +
- Audrey Harrod; MS Ecology – UGA 2023 +
- Ian Collins; PhD Entomology – UGA (*Upgraded from MS*) 2023 +

– Undergraduate Research Projects Supervised

- Bella Burhanna (Ecology, UGA) – CURO Scholar 2023 +
- 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.

- Science Communication – ECOL3440 University of Georgia. *Bachelors level class. Course co-lead.* 2024 +
- Agroecology – ECOL(ENTO)3700 University of Georgia. *Bachelors level class. Course lead.* 2024 +
- Quant. Anal. & Experimental Design – ENTO8900 Entomology, University of Georgia. *Graduate level class. Course lead.* 2023 +
- Honey Bee Health – SAMS 5425 CVM, University of Georgia. *Post-graduate level class. Guest lecturer.* 2021 +
- Bees, Beekeeping, and Pollinator Conservation – ENTO3010 University of Georgia. *Bachelors level class. Guest lecturer.* 2021 +
- Vectorborne Diseases – IDIS/ECOL 8240 Ecology, University of Georgia. *Graduate level class. Course co-lead.* 2023
- Agroecology – ENTO3900 Entomology, University of Georgia. *Bachelors level class. Course lead.* 2023
- Ecology – ECOL3500 Ecology, University of Georgia. *Bachelors upper-level class. Course co-lead.* 2023
- Ecology of Infectious Diseases – FYOS 1001 University of Georgia. *Bachelors (1st year) level class. Lecturer.* 2020 - 22
- PopBio of Infectious Diseases – REU Seminar Series; Ecology, University of Georgia. *Bachelors level class. Seminar lead.* 2021
- Berkeley EEID Research Seminar Series – IB290 U.C. Berkeley. *Ph.D. level class. Guest lecturer.* 2019
- Veterinary Medicine Seminar Series – CVM, University of Georgia. *Graduate level class. Guest lecturer.* 2019
- Conservation Ecology Seminar Series – ICON PhD Program, University of Georgia. *Ph.D. level class. Guest lecturer.* 2019
- 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

Outreach, Extension, and Science Communication

Keynotes & Large Events

- Georgia Beekeepers Association Annual Meeting – GA (**Conference Organisation Committee**) 2023, 24
- South Carolina State Beekeepers Association Annual Meeting – SC (**Keynote**) Biennial 2020 - 24
- Western Apicultural Society Annual Meeting – (**Keynote**) 2024
- Costal Empire Beekeepers Association Annual Meeting – (**Keynote**) 2024
- Apiary Inspectors of America Annual Meeting – LA 2024
- Nashville Beekeepers Association Annual Meeting – TN (**Keynote**) 2023
- Iowa Honey Producers Association Annual Meeting – IA (**Keynote**) 2023
- Connecticut Beekeepers Association Meeting – CT 2023
- Northeast Oklahoma Beekeepers Association Annual Meeting – OK (**Keynote**) 2023
- Manitoba Beekeepers Association Annual Meeting – Canada (**Keynote**) 2023
- Commercial Beekeepers of Georgia Annual Meeting – GA (**Keynote**) 2023
- Young Harris Beekeeping Institute – GA (**Conference Organisational Committee**) Annual 2015 - 22
- Maine State Beekeepers Association Annual Meeting – ME (**Keynote**) 2022
- Georgia Farm Bureau Annual Meeting – GA 2022
- Georgia Beekeepers' Association Fall Convention – GA (**Keynote**) 2019, 22
- Maryland State Beekeepers Association Annual Meeting – MD (**Keynote**) 2022
- Georgia Beekeepers Association Spring Convention – GA (**Keynote**) 2022
- Texas Beekeepers Annual Convention – TX (**Keynote**) 2021
- Oregon State Beekeepers Association Conference – OR (**Keynote**) 2021
- Western Pennsylvania Annual Beekeepers' Meeting – PA (**Keynote**) 2020
- Eastern Apicultural Society Annual Meeting – SC 2019

Local Club Talks & Small Events

- Palm Beach Beekeepers' Association – FL 2024
- Northeast Mountain Beekeepers' Association – GA Annual 2019 - 24
- Walker County Honey Bee Festival – GA 2024
- Charleston Bee Brunches – SC 2024
- EPBA Beginners Beekeeping Seminar – GA Annual 2022 - 24
- Oglethorpe County Beekeepers' Association – GA 2021, 24
- Tara Beekeepers' Association – GA 2019, 24
- West Georgia Beekeepers Association – GA 2023, 24
- Tri-County Beekeepers' Association – GA Annual 2019 - 24
- Montgomery County Beekeepers' Association – PA 2021, 24
- Eastern Piedmont Beekeepers' Association – GA 2019, 23, 24
- Boston Areas Beekeepers Association – MA 2023
- Lake Hartwell Beekeepers Association – GA 2023
- Forsyth County Beekeepers Association – GA 2023
- Alameda Beekeepers Association – CA 2023
- Metropolitan Atlanta Beekeepers' Association – GA Biennial 2018 - 23
- Dunwoody Beekeepers Association – GA 2022, 23
- Gwinnett County Beekeepers' Association – GA 2021, 23
- Beekeepers of Northern Shenandoah – VA 2022
- Raritan Valley Beekeepers' Association – NJ 2021
- Public lecture & screening of 'The Pollinators' documentary –Cine, Athens GA 2020

- Jekyll Island Public Biology Lecture Series – Georgia Sea Turtle Center, GA 2019
- Lake County Beekeepers' Association – GA 2019
- *Taste of Science* 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 (>50K subscribers)
 - "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
- *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

- Platinum-level fundraiser for Boybutante AIDS Foundation, Inc. 2021 +
- 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
- 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 Programming 2015 - 16
- Mainstream media features: BBC (2016), NPR (2019), National Geographic (2022) & NBC (2023).
Local or small-scale media appearances common, multiple features annually.

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
- Charleston Bee Brunches – SC 2024

Fellowships, Awards & Honours

- Entomological Society of America – Science Policy Fellow 2023 - 25
- 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
- Borradaile Prize – College prize for highest-mark graduand in Natural Sciences (Zoology). 2013
- Tripos Prize – College prize for highest achieving graduands. 2013