Catherine Scott, Ph.D.

Lyman Entomological Museum
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ACADEMIC HISTORY

2021- **NSERC Postdoctoral Fellow**, Natural Resource Sciences, McGill University
Foraging ecology of the introduced candy-striped spider in Canada
PI: Chris Buddle

2021 **Postdoctoral Fellow**, Biology, University of Toronto Scarborough
Ecology, behaviour, and sexual communication of the western black widow
PI: Maydianne Andrade

2020 **MITACS Postdoctoral Fellow**, Biology, Acadia University
Chemical ecology of spider mites and ticks
PI: Kirk Hillier

2019 **PhD**, Ecology and Evolutionary Biology, University of Toronto
Thesis: *Mate searching and choosiness are shaped by spatial structure and social information in western black widows*
PI: Maydianne Andrade

2014 **MSc**, Biology, Simon Fraser University
Thesis: *The chemical communication system of the western black widow*
PI: Gerhard Gries

2008 **BSc**, Mathematics and Statistics, Queen's University

GRANTS AND RESEARCH AWARDS

2023 Banting Postdoctoral Fellowship ($140,000)

2021 NSERC Postdoctoral Fellowship ($90,000)

2020 Nova Scotia Museum Research Grant; co-PI with S McCann ($4,000)

2019 Queen Elizabeth II Graduate Scholarship in Science & Technology ($15,000)

2018 Ontario Graduate Scholarship ($15,000)

2018 General Motors Women in Science and Mathematics Award ($5,000)

2018 Entomological Society of Canada PhD Scholarship ($2,000)

2018 Entomological Society of Canada Danks Scholarship ($1,000)

2017 Toronto Entomologists' Association W. John D. Eberlie Research Grant ($400)

2016 Experiment Arachnid Challenge Grant (USD 500 grant plus USD 5,700 raised via crowdfunding at Experiment.com)

2015 NSERC Alexander Graham Bell Canada Graduate Scholarship – Doctoral ($105,000)

2013 Entomological Society of BC Graduate Student Scholarship ($400)

2013 Simon Fraser University Graduate Fellowship ($6,250)

2012 Simon Fraser University Graduate Fellowship ($6,250)

2011 Simon Fraser University Graduate Fellowship ($6,250)

2007 Queen's University Norman Miller Fellowship in Mathematics Education ($1,000)

HONOURS, PRIZES, AND COMPETITIVE TRAVEL AWARDS

2022 McGill Association of Postdoctoral Fellows Public Engagement Award

2018 International Society for Behavioural Ecology Travel Award ($600)

2016 International Congress of Arachnology award for best student poster in Ecology and Behaviour (200 USD)

2016 American Arachnological Society Student Travel Grant (500 USD)

2013 Entomological Society of Canada President's Prize for best student talk in Behaviour and Biological Control ($150)

PUBLICATIONS

*indicates undergraduate mentee; †indicates authors contributed equally

21. **Scott C**, McCann S. They mostly come at night: Predation on sleeping insects by introduced candy-striped spiders in North America. ***Ecology*** e4025. doi: https://doi.org/10.1002/ecy.4025

    Media coverage: The New York Times

20. Mammola S, Malumbres-Olarte J, Arabesky V, Barrales-Alcalá D, Barrion-Dupo A, Benamú M, Bird T, Bogolomova M, Cardoso P, Chatzaki M, Cheng R, Chu T, Classen-Rodríguez L, Čupić I, Dhiya'ulhaq N, Drapeau Picard A, El-Hennawy H, Elverici M, Fukushima C, Ganem Z, Gavish-Regev E, Gonnye N, Hacala A, Haddad C, Hesselberg T, Ho T, Into T, Isaia M, Jayaraman D, Karuaera N, Khalap R, Khalap K, Kim D, Korhonen T, Kralj-Fišer S, Land H, Lin S, Loboda S, Lowe E, Lubin Y, Martínez A, Mbo Z, Miličić M, Kioko G, Nanni V, Norma-Rashid Y, Nwankwo D, Painting C, Pang A, Pantini P, Pavlek M, Pearce R, Petcharad B, Petillon J, Raberahona O, Saarinen J, Segura-Hernández L, Sentenská L, Uhl G, Walker L, Warui C, Wiśniewski K, Zamani A, †Chuang A, †**Scott C**. (2022) The global spread of misinformation on spiders. ***Current Biology*** 32: R871-R873. doi: 10.1016/j.cub.2022.07.026

    Selected media coverage: The New York Times; Science News; Smithsonian Magazine; Mongabay; CBC

19. Sentenská L, **Scott C**, Mouginot P, Andrade MCBA (2022). Risky business: Males choose more receptive adults over safer subadults in a cannibalistic spider. ***Behavioural Ecology*** 33: 688-697. doi: 10.1093/beheco/arac023

    Media coverage: The Atlantic

18. Mammola S, Malumbres-Olarte J, Arabesky V, Barrales-Alcalá D, Barrion-Dupo A, Benamú M, Bird T, Bogolomova M, Cardoso P, Chatzaki M, Cheng R, Chu T, Classen-Rodríguez L, Čupić I, Dhiya'ulhaq N, Drapeau Picard A, El-Hennawy H, Elverici M, Fukushima C, Ganem Z, Gavish-Regev E, Gonnye N, Hacala A, Haddad C, Hesselberg T, Ho T, Into T, Isaia M, Jayaraman D, Karuaera N, Khalap R, Khalap K, Kim D, Korhonen T, Kralj-Fišer S, Land H, Lin S, Loboda S, Lowe E, Lubin Y, Martínez A, Mbo Z, Miličić M, Kioko G, Nanni V, Norma-Rashid Y, Nwankwo D, Painting C, Pang A, Pantini P, Pavlek M, Pearce R, Petcharad B, Petillon J, Raberahona O, Saarinen J, Segura-Hernández L, Sentenská L, Uhl G, Walker L, Warui C,

Wiśniewski K, Zamani A †**Scott C**, †Chuang A. (2022) An expert-curated global database of online newspaper articles on spiders and spider bites. ***Scientific Data*** 9: 1-12. doi:10.1038/s41597-022-01197-6

17. *Bowen-MacLean GR, **Scott C**, Hillier NK. (2021) Two-spotted spider mites respond to chemical cues associated with conspecifics' silk when choosing a microhabitat. ***Journal of Insect Behavior***. doi:10.1007/s10905-021-09787-9

16. Lowe EJ, Wolff J, Aceves-Aparicio A, Birkhofer K, Veiga Branco V, Cardoso P, Chichorro, F, Fukushima C, Goncalves-Sousa T, Haddad C, Isaia M, Krehenwinkel H, Lynn Audisio T, Macias Hernandez N, Malumbres-Olarte J, Mammola S, McLean DJ, Michalko R, Nentwig W, Pekar S, Petillon J, Privet K, **Scott C**, Uhl G, Urbano Tenorio F, Wong BH, and Herberstein ME. (2020) Towards establishment of a centralized spider traits database. ***Journal of Arachnology*** 48: 103-109. doi:10.1636/0161-8202-48.2.103

15. Faraone N, Light M, **Scott C**, MacPherson S, Hillier NK. (2020) Chemosensory and behavioural responses of *Ixodes scapularis* to natural products: role of chemosensory organs in volatile detection. ***Insects*** 11: 502. doi:10.3390/insects11080502

14. **Scott C**, McCann M, Andrade MCB. (2020) Black widows as plastic wallflowers: female choosiness increases with indicators of high mate availability in a natural population. ***Scientific Reports*** 10: 8981. doi:10.1038/s41598-020-65985-z

13. **Scott C**, McCann S, Andrade MCB. (2019) Male black widows parasitize mate-searching effort of rivals to find females faster. ***Proceedings of the Royal Society B*** 286: 20191470 doi:10.1098/rspb.2019.1470. Altmetric score: 166 (top 5%)

    Selected media coverage: The New York Times; Science, Smithsonian Magazine; Scientific American

12. **Scott C**, Anderson A, Andrade MCB. (2018) A review of the mechanisms and functional roles of male silk use in spider courtship and mating. ***Journal of Arachnology*** 46: 173-206. doi:10.1636/JoA-S-17-093.1

11. Rosario K, Mettel KA, Benner BE, Johnson R, **Scott C**, Yusseff-Vanegas SZ, Baker CCM, Cassill DL, Storer C, Varsani A, Breitbart M. (2018) Virus discovery in all three major lineages of terrestrial arthropods highlights the diversity of single stranded DNA viruses associated with invertebrates. ***PeerJ*** 6:e5761. doi:10.7717/peerj.5761

10. **Scott C**, *Gerak C, McCann S, Gries G. (2017) The role of silk in courtship and chemical communication of the false widow spider, *Steatoda grossa* (Araneae: Theridiidae). ***Journal of Ethology*** 36: 191-197. doi:10.1007/s10164-017-0539-3

9. Vibert S, Salomon M, **Scott C**, Blackburn GS, Gries G. (2017) Life-history data for the funnel weavers *Eratigena agrestis* and *Eratigena atrica* (Araneae: Agelenidae) in the Pacific Northwest of North America. ***The Canadian Entomologist*** 149: 345-356. doi:10.4039/tce.2016.73

8. Vibert S, **Scott C**, Gries G. (2016) Vibration transmission through sheet webs of hobo spiders (*Eratigena agrestis*) and tangle webs of western black widow spiders (*Latrodectus hesperus*). ***Journal of Comparative Physiology*** *A* 202: 749–758. doi:10.1007/s00359-016-1113-0

7. **Scott C**, *Kirk D, McCann S, Gries G. (2015) Web reduction by male black widows renders pheromone-emitting females' webs less attractive to rivals. ***Animal Behaviour*** 107: 71-78. doi:10.1016/j.anbehav.2015.06.009. Altmetric score: 140 (Top 5%)

    Selected media coverage: Scientific American; Discover Magazine; Entomology Today

6. **Scott C**, McCann S, Gries R, Khaskin G, Gries G. (2015) *N*-3-Methylbutyryl-*O*-methylpropanoyl-*L*-serine methyl ester – pheromone component of western black widow females. ***Journal of Chemical Ecology*** 41: 465-472. doi:10.1007/s10886-015-0582-x

5. McCann S, **Scott C**, Moeri O, Jones T, O'Donnell S, Gries G. (2015) Red-throated Caracara, a falconid raptor, rivals predatory impact of army ants on social wasps. ***Insectes Sociaux*** 62: 101-108. doi:10.1007/s00040-014-0384-0

4. McCann S, Moeri O, Ibarra Jiminez S, **Scott C**, Gries G. (2015) Developing a paired-target apparatus for quantitative testing of nest defense behavior by vespine wasps in response to con- or heterospecific nest defense pheromones. ***Journal of Hymenoptera Research*** 46: 151-163. doi:10.3897/JHR.46.6585

3. Vibert S, **Scott C**, Gries G. (2014) A meal or a male: the 'whispers' of black widow males do not trigger a predatory response in females. ***Frontiers in Zoology*** 11: 4. doi:10.1186/1742-9994-11-4. Altmetric score: 160 (Top 5%)

   Selected media coverage: The Washington Post, CBC News, CTV News, Fox News

2. McCann S, Moeri O, Jones T, **Scott C**, Gries R, Khaskin G, O'Donnell S, Gries G. (2013) Strike fast, strike hard: the Red-throated Caracara exploits absconding behavior of social wasps during nest predation. ***PLOS ONE*** 8: e84114. doi:0.1371/journal.pone.0084114

1. **Scott C**, Vibert S, Gries G. (2012) Evidence that web reduction by western black widow males functions in sexual communication. ***The Canadian Entomologist*** 144: 672-678. doi:10.4039/tce.2012.56

COMMUNITY SCIENCE PROJECTS

Recluse Or Not? is a Twitter-based community science project to enhance understanding of a rarely encountered, widely feared, medically important spider and to track its potential range expansion. I started the Twitter account @RecluseOrNot in 2017 (with collaborators Dr. Eleanor Spicer Rice and Dr. Matt Bertone at North Carolina State University), with the goals of (1) providing expert identification of spiders in submitted photographs; (2) communicating accurate information about recluse spiders in North America and the risk of envenomation; and (3) collecting data about the current distribution of recluse spiders and the spiders most commonly mistaken for them. This project is ongoing but has already yielded a rich scientific dataset based on contributions from across North America. Once we complete five years of data collection (fall 2022) we will report our results in a manuscript that we plan to submit to the open-access journal PeerJ. I have been invited to present this work in symposia at two international conferences.

Media coverage: Science Friday (NPR); University of Toronto Scarborough News; NC State University News

Spider Hunters is an iNaturalist-based community science project that will contribute data about the distribution, phenology, diet, and plant associations of the introduced candy-striped spider in North America, as part of my ongoing NSERC PDF-funded research program.

RESEARCH SUPERVISION

2022- **Co-supervisor** (with Prof. Chris Buddle): Stephanie Gagnon, MSc Student (McGill University)

2022 **Co-supervisor** (with Prof. Chris Buddle): Stephanie Gagnon, Undergraduate Summer Research Assistant (McGill University)

Stephanie completed fieldwork in the Yukon studying the effect of the Dempster Highway on the community structure and phenology of tundra wolf spider. She has already presented this work at a regional conference (the Annual Meeting of the Entomological Society of Ontario) and is currently preparing the manuscript for submission to The Canadian Entomologist.

2022 **Co-supervisor** (with Dr. Morgan Jackson): Catherine Woo-Durand, Vanier College Intern at the Lyman Entomological Museum (McGill University)

2020 **Co-supervisor** (with Prof. Kirk Hillier): Grace Bowen-MacLean, Honours Thesis Student (Acadia University)

Grace's thesis was published in the Journal of Insect Behaviour and she won first place in the undergraduate student poster competition (Chemical Ecology) at the 2020 meeting of the Entomological Society of America. She is now an MSc at the University of Toronto.

2017 **Supervisor:** BIOC99 Team Research at University of Toronto Scarborough (UTSC)

Sumaya Dano, Ajay David, Nimra Javaid, Dilakshan Srikanthan, & Amanda Yee

These students collaborated on a one-semester research project and presented their results in a poster at the 2017 meeting of the Animal Behaviour Society in Toronto. They won 2nd prize at the 2017 UTSC Undergraduate Research Poster Forum. DK is now an MD/PhD Candidate at Queen's University, AD is a PhD Candidate at McGill, and SD recently completed their MSc at the University of Toronto.

2017 TA/Supervisor: BIOD98 Directed Research (UTSC)

2017 TA/Supervisor: BIOB98 Supervised Introductory Research (UTSC)

2013 **Supervisor:** BISC 498 Undergraduate Research Projects (Simon Fraser University)

Chloe Gerak: coauthored paper in Journal of Ethology; won President's Prize for best undergraduate student talk at the meeting of the Entomological Society of BC in 2014. Dr. Gerak is now a postdoctoral fellow at the University of Melbourne.

Devin Kirk: coauthored paper in Animal Behaviour. Dr. Kirk is currently a postdoctoral fellow at the University of British Columbia.

TEACHING

2022 Guest Lecturer: One lecture on the Chelicerata for BIOL 2122 Biology of Invertebrates at Memorial University

2022 Guest Lecturer: Two lectures on sexual selection in BIOL3750 Animal Behaviour I at Memorial University

2019 Course Instructor: BIOD53 Special Topics in Behavioural Ecology at University of Toronto Scarborough (UTSC)

2018 TA: BIOD53 Special Topics in Behavioural Ecology (labs) at UTSC

Guest lecturer: 1. Chemical Ecology; 2. Introduction to the Biology and Diversity of Spiders

2018 TA: BIOB51 Evolutionary Biology at UTSC

2018 TA: BIOD53 Special Topics in Behavioural Ecology (labs) at UTSC

Guest lecturer: Courtship behaviour and chemical communication in black widows

2017 TA: BIOC54 Animal Behaviour (tutorials) at UTSC

2016 TA: BIOA01 Life on Earth: Unifying Principles (labs) at UTSC

2015 TA: BISC 102 General Biology (labs and tutorials) at Simon Fraser University (SFU)

2014 TA: BISC 204 Introduction to Ecology (tutorials) at SFU

Guest lecturer: Ecology of Spiders

2013 TA: BISC 101 General Biology (labs and tutorials) at SFU

2007 TA and Co-course Coordinator: MATH 121/122 Math Investigations Calculus Program at Queen's University

2007 TA: Math Help Centre at Queen's

2006 TA: MATH 121/122 Math Investigations Calculus Program at Queen's

SCIENTIFIC CONSULTING

2022 Canadian Wildlife Service, Environment and Climate Change Canada. Contract to reassess the conservation status of harvestmen and pseudoscorpions in Canada.

2022 Offspring Films. Scientist/consultant for an episode of a nature documentary.

2021 Plimsoll Productions. Research Assistant for filming of red-throated caracaras for the Netflix documentary "Animal" (Season 2, Episode 2: Birds of Prey).

INVITED SEMINARS AND PLENARIES

2023 **Departmental Seminar** (upcoming). Department of Entomology, University of Manitoba, Winnipeg, MB. Online, 28 Mar.

2023 **Departmental Seminar** (upcoming). Department of Biology, Memorial University, St. John's NL. 24 Mar.

2023 **Departmental Seminar**. Department of Integrative Biology, University of Guelph, Guelph, ON. Online, 2 Feb.

2021 **Invited Seminar.** 'Arthropodata' Virtual Seminar Series. Online, 31 May.

2020 **Plenary** (co-presented with S McCann). Annual Meeting of the Acadian Entomological Society, Online, 10 Aug.

2019 **Departmental Seminar.** Department of Biology, Acadia University, Wolfville, NS. 16 Aug.

INVITED TALKS IN CONFERENCE SYMPOSIA

2022 Diverse Voices Influencing Change in Entomology through Art, Culture, and Science. Joint Annual Meeting of the Entomological Societies of America, Canada, and British Columbia, Vancouver, BC, 13–16 Nov.

2020 e-Entomology: Inclusive Outreach in a Digital World. Entomological Society of America Meeting, Online, 11–25 Nov.

2019 Sexual Strategies and Reproductive Morphology in Arachnids. XXI International Congress of Arachnology, Christchurch, New Zealand, 10–15 Feb.

2019 Arachnological Outreach for Community Engagement, Conservation and Research. International Congress of Arachnology, Christchurch, New Zealand, 10–15 Feb.

2014 Arthropods Affecting Human Health: Fact and Fiction. Annual Meeting of the Entomological Society of British Columbia, Burnaby, BC, 28 Sept.–1 Oct.

CONTRIBUTED TALKS AT CONFERENCES

2019 Joint Annual Meeting of the Entomological Society of Canada and the Canadian Society for Ecology and Evolution, 18–21 Aug. 2019. ***Talk in the Graduate Student Showcase (inclusion by competition)***

2018 Joint Annual Meeting of the Entomological Societies of America, Canada, and British Columbia, Vancouver, BC, 10–14 Nov. 2018.

2018 Annual General meeting of the Entomological Society of Ontario, Sault Ste. Marie, ON, 19–21 Oct. 2018.

2018 17th International Behavioral Ecology Congress, Minneapolis, MN, 11–16 Aug. 2018.

2018 Toronto Entomologists' Association Student Symposium, Toronto, ON, 24 Mar. 2018.

2017 Annual Conference of the Animal Behavior Society, Scarborough, ON, 12–16 Jun. 2017.

2016 Toronto Entomologists' Association Student Symposium, Toronto, ON, 19 Mar. 2016.

2015 Joint Annual Meeting of the Entomological Society of Canada and the Société d'entomologie du Québec, Montréal, QC, 8-11 Nov. 2015.

2015 Annual Meeting of the Entomological Society of Ontario, Elgin, ON, 18–20 Sept. 2015.

2013 Joint Annual Meeting of the Entomological Society of Saskatchewan and Entomological Society of Canada, Saskatoon SK, 20-23 Oct. 2013. ***Talk in the Graduate Student Showcase (inclusion by competition)***

2012 Joint Annual Meeting of the Entomological Society of Ontario and the Entomological Society of Canada, Guelph ON, 4–7 Nov. 2012. ***President's Prize for best student talk (Behaviour and Biological Control)***

2011 Joint Annual Meeting of the Entomological Society of Canada and the Entomological Society of Alberta, Edmonton AB.

2010 Joint Annual Meeting of the Entomological Societies of BC and Canada, Vancouver BC, 31 Oct.–3 Nov. 2010.

CONTRIBUTED POSTERS AT CONFERENCES

2015 International Congress of Arachnology, Golden, CO, 2–9 Jul. 2015. ***Prize for best student poster (Behaviour and Ecology)***

2011 Annual meeting of the International Society of Chemical Ecology, Burnaby BC, 24–28 Jul. 2011. ***Honorable mention, student poster competition***

CONFERENCES AND SYMPOSIA ORGANISED

2022 Symposium co-organiser (with Jacob Gorneau and Lauren Esposito). Many eyes on many eyes: a diverse look at arachnology. Joint Annual Meeting of the Entomological Societies of America, Canada and British Columbia, Vancouver BC, Nov. 13–16.

2021 Symposium co-organiser (with Valérie Founier, Morgan Jackson, Véronique Martel, and Sabrina Rondeau). Bridging Community Engagement, Entomology and Research. Joint Annual Meeting of the Entomological Societies of Canada and Ontario, Online, Nov. 15–18.

2021 Organizing Committee Member and Co-chair of Ancillary Programming. Virtual Meeting of the American Arachnological Society, Online, June 24–30.

2018 Symposium co-organizer (with Robb Bennett, Claudia Copley, and Heather Proctor). Crossing Taxonomic Borders: Challenging Arachnological Traditions in North America. Joint Annual Meeting of the Entomological Societies of America, Canada, and British Columbia, Vancouver, BC, 11–14 Nov.

ACADEMIC SERVICE

Co-Editor-in-Chief of the **Journal of the Entomological Society of Ontario** (Nov. 2022–present)

Peer reviewer (>60 reviews since 2015) for the following journals:

Acta Ethologica, Agricultural and Forest Entomology, Animal Behaviour, Arachnology, Austral Entomology, Behavioral Ecology, Biological Invasions, Biological Journal of the Linnean Society, Biology, Biotropica, BMC Evolutionary Biology, Bulletin of the New Jersey Academy of ScienceCurrent Biology, Current Zoology, Ecology and Evolution, Ethology, Ethology Ecology and Evolution, Food Webs, Functional Ecology, Graellsia, Integrative and Comparative Biology, Journal of Agricultural and Food Chemistry, Journal of Animal Ecology, Journal of Arachnology, Journal of Ethology, Journal of Insect Behaviour, Journal of Thermal Biology, Naturwissenschaften, New Zealand Journal of Zoology, Peer Community in Zoology, Royal Society Open Science

Grant reviewer for POLONEZ BIS Postdoctoral Fellowship Program (Polish National Science Centre) in 2022

Volunteer at the membership booths for the **Entomological Society of Canada** and the **Entomological Society of British Columbia** at the joint meeting of the Entomological Societies of America, Canada, and British Columbia in Vancouver BC (13–16 Nov. 2022).

Judge for the student presentation competition at the 2022 Annual Meeting of the Entomological Society of Ontario.

Peer-review Mentor for the Zoom-a-review mentorship program of **Behavioral Ecology** in 2020

Judge for the student presentation competition at the 2021 meeting of the American Arachnological Society.

Education and Outreach Committee member (co-lead of the Community Science subcommittee) for the American Arachnological Society (2020–present).

Regional Director of the **Entomological Society of Canada** representing the Acadian Entomological Society (2020–2021).

Entomological Society of Canada: EDI Committee member, Student and Early Professional Affairs Committee member, and Communications Committee member (2020–present); Public Education Committee member (2019-2022); Nominations Committee member (2020).

Volunteer at the membership booth for the **Entomological Society of Canada** at the joint meeting of the Entomological Society of Canada and the Canadian Society for Ecology and Evolution in Fredericton, NB (18–21 Aug. 2019).

Volunteer at the membership booths for the **Entomological Society of Canada** and the **Entomological Society of British Columbia** at the joint meeting of the Entomological Societies of America, Canada, and British Columbia in Vancouver BC (11–14 Nov. 2018).

Volunteer AV operator at the annual meeting of the **Animal Behaviour Society** in Toronto, ON (12–16 Jun. 2017).

Entomological Society of Ontario: Student Representative to the board, Outreach Committee member, and Scholarship Committee member (2016–2018); Bug Eye Photo Competition coordinator (2018); Social Media Coordinator (2015–2017).

Vice-president of the Toronto chapter of **Sigma Xi** (2017–2020).

Student Representative on the board of the Toronto chapter of **Sigma Xi** (2016–2017).

Organizing committee member for **Ontario Ecology Ethology and Evolution Colloquium** (OE3C) 2016 meeting at the University of Toronto.

Volunteer moderator and AV operator at the Joint Annual Meeting of the **Entomological Societies of Canada and Quebec** in Montréal, QC (8–11 Nov. 2015).

Volunteer: scanning and uploading back issues of the **Bulletin of the Entomological Society of Canada** to make them available and searchable online (2013).

Volunteer AV operator, Joint Annual Meeting of the **Entomological Societies of Canada and Alberta**, in Edmonton, AB (4–7 Nov. 2012).

SFU Biological Sciences Graduate Student Caucus Executive member: Teaching Support Staff Union Representative (2012–2013); Events Committee Officer (2011–2012).

SCIENCE COMMUNICATION AND OUTREACH

Selected radio and podcast interviews:

As it Happens, CBC, 13 Mar. 2023 (link)

Two Brad for You podcast, 10 Mar. 2023 (link)

On the Island, CBC, 8 Mar. 2023 (link)

Just Between Us podcast, 21 Sept. 2022 (link)

The Current, CBC, 24 Aug. 2022 (link)

Anthropomania podcast, 26 Apr. 2022 (link)

Scientific American 60-second Science podcast, 1 Aug. 2019. (link)

But Why: A Podcast for Curious Kids, NPR, 9 Nov. 2018. (link)

Science Friday, NPR, 27 Oct. 2017. (link)

Science Friday, NPR, 30 Oct. 2015. (link)

What She Said, Sirius Radio, 27 Oct. 2015. (link)

Scientific American 60-second Science podcast, 16 July 2015. (link)

TV appearances:

The Weather Network, 13 Mar. 2023 (link)

The Nature of Things (CBC), 10 Mar. 2023 (link)

CTV Atlantic, 1 Sept. 2022. (link)

Invited public talks:

Willow Beach Field Naturalists Speaker Series, 31 Mar. 2023.

Nature London Speaker Series, Online, 17 Mar. 2023.

South Peel Naturalists Speaker Series, Online, 21 Nov. 2022.

North Durham Naturalists Speaker Series, Online, 26 Oct. 2021.

Woodstock Field Naturalists' Club Speaker Series, Online, 13 Sep. 2021.

Toronto Field Naturalists Lecture Series, Online, 12 Sept. 2021.

Halton/North Peel Naturalists Club Speaker Series, Glen Williams, ON, 12 Mar. 2019.

Cumberland Community Forest Society Pub Night & Fundraiser, Cumberland, BC, 19 Oct. 2018

Pickering Naturalists' Speaker Series, Pickering, ON, 7 Jun. 2018.

Upper Credit Field Naturalists' Speaker Series, Orangeville, ON, 27 Mar. 2018.

Durham Region Field Naturalists' Lecture Series, Durham, ON, 27 Mar. 2017.

Victoria Natural History Society, Victoria, BC, 13 Sept. 2016.

Royal Canadian Institute for the Advancement of Science Lecture Series, Toronto, ON, 14 Feb, 2016.

Other outreach and education activities:

Cohost for Science Friday Trivia Night (online), 29 Sept. 2021.

Guest speaker (arachnology) via Skype (via Skype a Scientist and other programs) to >10 elementary and high school science classrooms and libraries in Canada, USA, UK & China (2017–present).

Contributed to an online webinar (arthropod natural history and identification) for the Maritime Backyard Bioblitz, part of the City Nature Challenge, in Kentville, NS, 28 Apr. 2020.

Organized and led arachnology-related activities (games and discussion, with live spiders, via Skype) for a Brownies (Girl Guides of Canada) group in Wolfville, NS, 19 Apr. 2020.

Organized and led entomology-related activities (games, crafts, and discussion, with live arthropods) for a Sparks (Girl Guides of Canada) group in Toronto, ON, 19 Mar. 2018.

Co-organized and led guided arthropod bioblitzes (focused on spiders and pollinators) for the public as part of the Rouge National Urban Park Bioblitz in Toronto, ON, 24-25 Jun. 2017.

Guest speaker for careers class at The Study Academy, Toronto, ON, 15 Jan. 2016.

Led a discussion and activity about spider biology for grade 2 and 3 students as a Science Mentor for SFU Science Al!ve Quarks camp 2 Jul. 2015.

Organized and presented an interactive educational display communicating information about spiders at the Iona Beach Regional Park Spiders Unraveled event, 13 Sept. 2014.

Organized and presented an interactive educational display communicating information about arthropods to families at the Richmond Nature Park Bugs Galore! event, 8 Sept. 2013 & 7 Sept. 2014.

Guest speaker at grade 2 and 3 Spider Club at Upper Lynn elementary school, 7 & 21 May 2014.

Organized and presented an interactive educational display about arthropods and science for families at SFU's Halloween Science Spooktacular event, 26 Oct. 2013.

Online writing:

SpiderBytes: This is a blog I created that is aimed at a general audience (>500 pageviews per day since 2016), where I write about spider biology, diversity, and natural history, and post lay summaries of my research publications. (2013–present)

Representative pieces:

Bolas Spiders: Masters of Deception (natural history; link)

The Great Black Widow Race: Spiders use the Silk Road to Find Females Faster (lay summary; link)

Small Pond Science: I am an occasional contributor to this blog, which focuses on teaching and research at primarily undergraduate institutions and often includes discussions around equity, diversity, and inclusion in STEM and higher education. (2015–present)

Representative pieces:

If Your Society is Serious about EDI You Need to Keep Having Online Conferences (link)

Dear Students, a Member of the Class Asked… (link)