Kelsey J.R.P. Byers

Department of Cell and Developmental Biology
Genes in the Environment Institute Strategic Programme
Molecules from Nature Institute Strategic Programme
John Innes Centre
Norwich Research Park
Norwich
NR4 7UH
United Kingdom

Phone: +44 (0)7397 847015 (UK) or +1 978-636-5233 (USA)
Email: Kelsey.Byers@jic.ac.uk or kbyers@alum.mit.edu
Web page: https://www.jic.ac.uk/people/kelsey-byers/
Google Scholar profile: http://tinyurl.com/kbyers-gscholar
ORCID: http://orcid.org/0000-0002-0923-8264

Research keywords

Chemical ecology, plant-pollinator interactions, floral volatiles, pheromones, reproductive isolation, speciation, floral trait evolution

Education

2008-2014 ***University of Washington, Seattle, WA, USA***
Ph.D., Department of Biology
Dissertation: "Floral volatiles in *Mimulus*: chemical ecology, insect olfaction, genetics, and reproductive isolation"
Advised by Dr. H. D. "Toby" Bradshaw, Jr. and Dr. Jeffrey A. Riffell

2003-2007 ***Massachusetts Institute of Technology (MIT), Cambridge, MA, USA***
S.B., Biology

Research positions

2020-present ***Group Leader, Department of Cell and Molecular Biology, John Innes Centre***
Chemical ecology and floral trait evolution in *Mimulus*, *Gymnadenia*, and *Galium*.

2017-2020 ***Postdoctoral Research Associate, Jiggins Group, Department of Zoology, University of Cambridge***
Chemical ecology and genetics of inter- and intraspecific mate choice in closely related *Heliconius* butterflies (papers 10, 13, 14, 15, 16).
- identified octadecanal as the key bioactive pheromone in *Heliconius melpomene*; found a QTL for its production
- demonstrated significant clustering of QTL for pheromone production not overlapping with existing speciation loci

2014-2017 ***PLANT FELLOWS Postdoctoral Fellow, Schiestl and Schlüter Groups, Department of Systematic and Evolutionary Botany, University of Zurich***

Scent genetics, floral traits, pollinator adaptation, and population genetics of sister species of alpine orchids (papers 9, 12).
- demonstrated selection on floral shape and scent in two *Gymnadenia* species
- sequenced and assembled the first transcriptomes of four *Gymnadenia* species
Funding: PLANT FELLOWS fellowship (research & stipend), Claraz (fieldwork)

2009-2014 ***National Science Foundation Graduate Research Fellow, Bradshaw and Riffell Laboratories, University of Washington***
Chemical ecology, genetic mapping and characterization of terpene synthase genes in two species of *Mimulus* (papers 2, 4, 5, 8).
- identified three electrophysiologically and behaviorally volatiles in the floral scent bouquet of *Mimulus lewisii*
- discovered a 'barrier gene' (*OCIMENE SYNTHASE*) with significant fitness effects in *Mimulus*
Funding: NSF Doctoral Dissertation Improvement Grant (research), NSF Graduate Research Fellowship (stipend)

2009 Spring ***Graduate Opportunity Fellow, Peichel Laboratory, Fred Hutchinson Cancer Research Center, University of Washington***
Expression of pigment pattern genes in stickleback using *in situ* hybridization.

2009 Winter ***Graduate Opportunity Fellow, Bradshaw Laboratory, University of Washington***
Effect of floral color variants of *Mimulus* on hawkmoth visitation (preprint 1).

2008 Autumn ***Graduate Opportunity Fellow, Di Stilio Laboratory, University of Washington***
Sequencing floral transcription factors in a basal eudicot, *Thalictrum*.

2007-2008 ***Technical Research Assistant, Bulyk Laboratory, Harvard Medical School***
Transcription factor binding site analysis using protein-binding microarrays (paper 1).

Publications in peer-reviewed journals

(†: citation data from Google Scholar, 2021 March 11)

20. H.A. Branch, A.N. Klingler, **K.J.R.P. Byers**, A. Panofsky, & D. Peers. (in press) Discussions of the "not-so-fit": how ableism limits diverse thought and investigative potential in evolutionary biology. *The American Naturalist* (special issue on "Nature, Data, and Power: how hegemonies shape biological knowledge").

19. **K.J.R.P. Byers**. (2021) "As if they discovered it by the scent": improving our understanding of the chemical ecology, evolution, and genetics of floral scent and its role in pollination. *American Journal of Botany* (invited *On the Nature of Things* essay) **108**: 1-3.

18. **K.J.R.P. Byers**. (2021) Pollination: Orchids attract unusual pollinators by means of novel chemical compounds. *Current Biology* (invited Dispatch) **31**: R433-R435.

17. **K.J.R.P. Byers** & H.D. Bradshaw, Jr. (2021) Rational design of a novel hawkmoth pollinator interaction in *Mimulus* section *Erythranthe*. *Frontiers in Ecology and Evolution* **9**: 193.

16. **K.J.R.P. Byers***, K. Darragh*, S. Fernanda Garza, D. Abondano Almeida, I.A. Warren, P. Rastas, R.M. Merrill, S. Schulz, W.O. McMillan, & C.D. Jiggins. (2021) Clustering of loci con-

trolling species differences in male chemical bouquets of sympatric *Heliconius* butterflies. *Ecology and Evolution* **11**: 89-107. (*co-first authors)

15. K. Darragh, A. Orteu, D. Black, **K.J.R.P. Byers**, D. Szczerbowski, I.A. Warren, P. Rastas, A. Pinharanda, J.W. Davey, S. Fernanda Garza, D. Abondano Almeida, R.M. Merrill, W.O. McMillan, S. Schulz, & C.D. Jiggins. (2021) A novel terpene synthase produces an anti-aphrodisiac pheromone in *Heliconius melpomene*. *PLOS Biology* **19**: e3001022. *(Preprint cited by 3†)*

14. K. Darragh, G. Montejo-Kovacevich, K.M. Kozak, C.R. Morrison, C.M.E. Figueiredo, J.S. Ready, C. Salazar, M. Linares, **K.J.R.P. Byers**, R.M. Merrill, W.O. McMillan, S. Schulz, C.D. Jiggins. (2020) Species specificity and intraspecific variation in the chemical profiles of *Heliconius* butterflies across a large geographic range. *Ecology and Evolution* **10**:3895-3918. *(Cited by 6†).*

13. **K.J.R.P. Byers***, K. Darragh*, J. Musgrove, D. Abondano Almeida, S. Fernanda Garza, I.A. Warren, P. Rastas, M. Kučka, Y.F. Chan, R.M. Merrill, S. Schulz, W.O. McMillan, & C.D. Jiggins. (2020) A major locus controls a biologically active pheromone component in *Heliconius melpomene*. *Evolution* **74**:349-364. (*co-first authors) *(Cited by 4†)*

12. L. Piñeiro Fernández, **K.J.R.P. Byers**, J. Cai, K.E.M. Sedeek, R.T. Kellenberger, A. Russo, W. Qi, C.A. Fournier, & P.M. Schlüter. (2020) A phylogenomic analysis of the floral transcriptomes of sexually deceptive and rewarding European orchids, *Ophrys* and *Gymnadenia*. *Frontiers in Plant Science* **10**:1553. *(Cited by 7†)*

11. D.B. Lowry, J.M. Sobel, (following authors alphabetical)... **K.J.R.P. Byers**, *et al.* (2020) The case for the continued use of the genus name *Mimulus* for all monkeyflowers. *Taxon* **68**:617-623. *(Cited by 21†)*

10. K. Darragh, **K.J.R.P. Byers**, R.M. Merrill, W.O. McMillan, S. Schultz, & C.D. Jiggins (2019) Male pheromone composition depends on larval but not adult diet in *Heliconius melpomene*. *Ecological Entomology*, **44**:397-405. *(Cited by 12†)*

9. R.T. Kellenberger, **K.J.R.P. Byers**, R.M. De Brito Francisco, Y.M. Staedler, A.M. LaFountain, J. Schönenberger, F.P. Schiestl, & P.M. Schlüter (2019) Emergence of a floral colour polymorphism by pollinator-mediated overdominance. *Nature Communications* **10**:63. *(Cited by 22†)*

8. F. Peng, **K.J.R.P. Byers**, & H.D. Bradshaw, Jr. (2017) Less is more: independent loss-of-function *OCIMENE SYNTHASE* alleles parallel pollination syndrome diversification in monkeyflowers (*Mimulus*). *American Journal of Botany* **104**:1055-1059. *(Cited by 10†)*

7. **K.J.R.P. Byers**, S. Xu, & P.M. Schlüter (2017) Molecular mechanisms of adaptation and speciation: why do we need an integrative approach? *Molecular Ecology* **26**:277-290. *(Cited by 26†)*

6. **K.J.R.P. Byers** & F.P. Schiestl (2015) Pollination: How to get the best deal. *eLife* (Insight), **4**:e09919. *(Cited by 1†)*

5. **K.J.R.P. Byers**, J.P. Vela, F. Peng, J.A. Riffell, & H.D. Bradshaw, Jr. (2014) Floral volatile alleles can contribute to pollinator-mediated reproductive isolation in monkeyflowers (*Mimulus*).

The Plant Journal **80**:1031-1042. *(Cited by 58†)*

4. **K.J.R.P. Byers**, H.D. Bradshaw, Jr., & J.A. Riffell (2014) Three floral volatiles contribute to differential pollinator attraction in monkeyflowers (*Mimulus*). *Journal of Experimental Biology* **217**:614-623. *(Cited by 96†)*

3. Yuan Y., **K.J.R.P. Byers**, & H.D. Bradshaw, Jr. (2013) The genetic control of flower-pollinator specificity. *Current Opinion in Plant Biology* **16**:422-428. *(Cited by 46†)*

2. **K.J.R.P. Byers**, E. Sanders, & J.A. Riffell (2013) Identification of olfactory volatiles using gas-chromatography-multi-unit recordings (GCMR) in the insect antennal lobe. *Journal of Visualized Experiments*, **72** e4381, doi:10.3791/4381. http://www.jove.com/video/4381/ *(Cited by 5†)*

1. C. Zhu*, **K.J.R.P. Byers***, R.P. McCord*, Z. Shi, M.F. Berger, D.E. Newburger, K. Saulrieta, Z. Smith, M.V. Shah, M. Radhakrishnan, A.A. Philippakis, Y. Hu, F. De Masi, M. Pacek, A. Rolfs, T. Murthy, J. LaBaer, & M.L. Bulyk (2009) High-resolution DNA binding specificity analysis of yeast transcription factors. *Genome Research* **19**:556-566. (*co-first authors) *(Cited by 436†)*

Preprints and manuscripts in preparation

2. **K.J.R.P. Byers**, K.E. Wenzell, & M.N.K.A. Neequaye. Floral scent and floral color: how floral displays interact to guide pollinator behavior. *New Phytologist* invited Tansley Review, in preparation.
1. **K.J.R.P. Byers**, R.T. Kellenberger, & P.M. Schlüter. Selection on floral traits in two species of Alpine orchids (*Gymnadenia*). In preparation.

Grants, awards, and fellowships

2021-2022	Royal Society Research Grant (GBP 18,676, research funding) "Hybrid orchids as a window into species maintenance processes and trait integration"
2021	JGI (USA) CSP Project (JGI will sequence 48 new and 256 resequenced genomes and transcriptomes) "Genomic Resources for *Mimulus*, a Powerful Plant System for Analyses of Environmental Adaptations" (collaborator, led by John Willis at Duke University)
2015	Claraz Foundation fieldwork funding (CHF 494, one field season research funding)
2014-2016	PLANT FELLOWS Postdoctoral Fellowship (EUR 190,649, 2.5 years stipend & research funding) "Pollinator adaptation and selection on floral traits in the alpine orchids *Gymnadenia densiflora* and *Nigritella nigra*"
2014	DO-IT (Disabilities, Opportunities, Internetworking, and Technology) Trailblazer Award
2013	Melinda Denton Writing Fellowship, Department of Biology
2013	Best graduate student talk, Department of Biology annual retreat
2012-2014	NSF (USA) Doctoral Dissertation Improvement Grant (USD 14,562, research funding)

	"DISSERTATION RESEARCH: Contribution of specific floral odorants to differential attraction and reproductive isolation in monkeyflowers (*Mimulus*)" Selected as an NSF "Highlight" by the IOS program director: "The science behind a flower's sweet scent"; please see http://go.usa.gov/8tPY for details.
2010-2013	NSF (USA) Graduate Research Fellowship (USD 123,500, 3 years stipend funding)
2008	Achievement Rewards for College Scientists (ARCS) Foundation Fellowship
2008-2009	GenOM Project Graduate Fellowship
2008	Plant Biology Fellowship
2008-2009	Graduate Opportunity Program Research Assistantship (1 year stipend funding)

Teaching experience and educational outreach

Teaching experience: John Innes Centre

2022	Workshop (audience JIC staff and students) on analyzing plant volatile GC-MS data
2021	MSc in Plant Genetics and Crop Improvement, two lectures on hybridization and heterosis

Teaching experience: University of Cambridge

2019 Winter	Genetics, Development and Animal Diversity (advanced undergraduates), two weekly tutorials with three students each
2019	Postdoctoral masterclass (single lecture): "Making sense of the world of scents"

Teaching experience: University of Zurich

2015	Evolutionary and Ecological Genomics: Applications and Analysis, guest lecture
2015 Autumn	Plant-Insect Interactions (advanced undergraduates), group mentoring for individual experimental projects
2015	Botanical garden tour, undergraduate students
2014 Autumn	Evolutionary and Ecological Genomics: Applications and Analysis (advanced undergraduates), computer lab module development and assistance

Teaching experience: University of Washington

2014 Spring	Sensory Physiology and Ecology (advanced undergraduates), teaching assistant; two discussion sections and guest lecture
2013	Plant Classification and Identification, guest lecturer
2012	Chemical Communication, guest lecturer
2010 Winter	Introductory Biology (first-year undergraduates), teaching assistant; three lab sections and interactive lectures
2009 Autumn	Experimental Evolutionary Ecology (advanced undergraduates), teaching assistant; lab section and course organization (including all grade records and electronic assignments)

Research mentoring and supervisory experience

2021-present	Rebecca Collier (Year in Industry Student at University of Birmingham, placement with Byers Lab for 10 months)
2021-present	Rebecca Morton (final year undergraduate project student, Byers Lab)
2021-present	Katie Wenzell (postdoc, Byers Lab)
2020-present	Mikhaela Neequaye (research assistant, Byers Lab)
2019-2020	Rachel Blow (PhD student, Jiggins Group)
2019-2020	Daniella Black (visiting MSc student, Jiggins Group)
2017-2019	Kathy Darragh (PhD student, Jiggins Group; now postdoc, University of

	California Davis)
2018	Jamie Musgrove (intern, Smithsonian Tropical Research Institute)
2014-2017	Roman Kellenberger (PhD student, Schiestl and Schlüter Groups; now postdoc, University of Cambridge)
2012-2013	Mary Sargent (technician, Bradshaw Lab)
2008-2014	Mentoring, five undergraduate research students, one field team
2007-2008	Mentoring, two undergraduate students

Career mentoring and diversity and equality advocacy (last 5 years)

2022	"Disabled in the field: navigating nature as a disabled scientist", article for the Field Perspectives blog
2022	Speaker, "Are natural sciences inclusive?", Student Futures & Research Conference (British Ecological Scoiety and Linnean Society of London)
2021	Speaker, "Disabled in the field: navigating nature as a disabled scientist", Institute of Zoology (London, online seminar)
2021	Interviewee for "Academia's ableist culture laid bare" article in Nature (Career Feature)
2021	Speaker, "Out Thinkers" (LGBTQIA+ advocacy), Norwich Science Festival
2021	Panelist, "Accessible Fieldwork", Disabled in Higher Ed
2021	Panelist, "Beyond Law - Providing Accessibility & Inclusion Just Because", ASPB Plant Biology 2021 meeting workshop
2021	Panelist, "Dealing with & Thriving as a Scientist with Disabilities", Is-MPMI-Connect
2021	"Taking Disability Overseas: Extra Baggage, But New Opportunities", article for the British Ecological Society members' quarterly magazine, *The Niche*
2021	Radio interview on LGBTQ+ Life in the Lab, BBC Radio Norfolk
2020	Panelist, "Challenging Conversations", BES Festival of Ecology
2020	Panelist, "Disability in Biology and STEM" panel, Bio-Diverse Festival
2020	Video interview and panel discussion, Women of the Future
2020-present	Career mentoring, one disabled PhD student
2020	Curator, Chronically Academic (1 week tweeting for @chron_ac feed on chronic illness/disability in academia)
2019-present	Founding organizer, Disabled Scientists online Slack workspace
2019,2020,2021	Founding organizer, coffee break meetup for evolutionary biologists with disabilities/chronic illness and allies, Evolution 2019/ECR^2 2020/Evolution 2021
2019	EvoAlly, Evolution 2019
2010-present	Informal online mentoring, DO-IT (Disabilities, Opportunities, Internetworking, and Technology) Center, University of Washington
2012,2014,2019	Undergraduate Diversity Mentor, Evolution 2012, 2014 & 2019

Public outreach (last 5 years)

2022	Outreach question and answer session, Fornsett St. Peter CEVA Primary School (3 classrooms, via Zoom)
2021	Curator, Functional Ecology twitter feed (1 day tweeting for @FunEcology scientific journal feed during the annual British Ecological Society meeting)
2021	Twitter talk, "Close matching of pollinator 'tongues' and nectar spurs in two species of European orchids." Centre for Ecology, Evolution and Conservation 2021 Twitter Rebellion, University of East Anglia (invited plenary talk)

2021	Interviewed by "The Naked Scientists" for BBC Cambridgeshire radio and podcast on *Heliconius* terpene synthesis
2020	Presenter, outreach talk on *Heliconius* butterflies at a care home
2019	Public lecture, "Stop and smell the... pollination!", Cambridge Botanical Garden
2019	Activity leader (insect flower visitors), BioBlitz, Cambridge Botanical Garden
2019	Presenter, Portals to the World (adults with dementia and care partners)
2017	Curator, Biotweeps (1 week tweeting for @biotweeps science communication feed)
2013-present	Contributing Editor, BugGuide

Invited presentations and seminars

9. **K.J.R.P. Byers.** 2021. Making sense of scents: how plants and animals use volatiles to communicate. Department of Biological Sciences Department Seminar, University of Chester (Chester, UK; virtual).
8. **K.J.R.P. Byers.** 2020. Making sense of floral scents in plant-pollinator interactions. Evolution and Ecology Department Seminar, University of Lille (Lille, France; virtual).
7. **K.J.R.P. Byers.** 2020. Making sense of scents: how plants and animals use volatiles to facilitate their reproduction. School of Biosciences Seminar, Cardiff University (Cardiff, UK; virtual).
6. **K.J.R.P. Byers**. 2016. Fragrant orchids (*Gymnadenia*) in the Alps: floral traits, pollination, and hybridization. Behavioral and Evolutionary Ecology Seminar, University of Bern (Bern, Switzerland).
5. **K.J.R.P. Byers**, H.D. Bradshaw, Jr., Jeffrey Riffell, Roman Kellenberger, & Philipp Schlüter. 2016. From orchids to monkeyflowers: How floral volatiles shape pollinator behavior. XXV International Congress of Entomology (Orlando, FL, USA).
4. **K.J.R.P. Byers**, Roman Kellenberger, & Philipp Schlüter. 2016. Selection on floral traits in two orchids in the Swiss Alps. Population Biology Seminar, Duke University (Durham, NC, USA).
3. **K.J.R.P. Byers**. 2014. The role of three floral volatiles in pollinator-mediated reproductive isolation in monkeyflowers (*Mimulus*). Zurich-Basel Plant Science Center Symposium (Zurich, Switzerland).
2. **K.J.R.P. Byers**. 2014. Floral volatiles in *Mimulus*: chemical ecology, insect olfaction, genetics, and reproductive isolation. Institute of Systematic Botany (Zurich, Switzerland).
1. **K.J.R.P. Byers**. 2010. Rational design of a novel plant-pollinator interaction in a developing model system. Seattle Area Model Plant Labs Spring Seminar (Seattle, WA, USA).

Talks selected from abstracts

4. **K.J.R.P. Byers**. 2019. Female responses to conspecific and heterospecific male wing pheromones in *Heliconius* butterflies. Gordon Research Seminar: Speciation 2019 (Ventura, CA, USA).
3. **K.J.R.P. Byers**, Roman Kellenberger, & Philipp Schlüter. 2015. Selection on floral volatiles in sister species of Alpine orchids (*Gymnadenia*). EMBO Mechanisms of Plant Speciation Workshop (Åkersberga, Sweden).
2. **K.J.R.P. Byers**. 2014. The role of three floral volatiles in pollinator-mediated reproductive isolation in monkeyflowers (*Mimulus*). Gordon Research Conference: Plant Volatiles 2014 (Ventura, CA, USA).
1. **K.J.R.P. Byers**. 2014. Making sense of floral scents: floral scent differences between sister species of monkeyflowers - chemical ecology, neurobiology, genetics, and evolution. Gordon Research Seminar: Plant Volatiles 2014 (Ventura, CA, USA).

Contributed presentations and posters (last 5 years)

15. **K.J.R.P. Byers**. 2021. Pollinators and visitors to *Gymnadenia* orchids: historical and modern data reveal associations between insect proboscis and floral nectar spur length. Evolution 2021 (online meeting), talk.
14. **K.J.R.P. Byers**. 2021. How does floral scent change as one of the world's largest flowers opens? American Society of Naturalists Virtual Asilomar 2021 (online meeting), talk.
13. **K.J.R.P. Byers** & R.T. Kellenberger. 2020. Pollinators and visitors to *Gymnadenia* orchids: historical and modern data reveal associations between insect proboscis and floral nectar spur length. British Ecological Society Festival of Ecology 2020 (online meeting), poster and flash talk.
12. **K.J.R.P. Byers**. 2020. Pollinators and visitors to *Gymnadenia* orchids: historical and modern data reveal associations between insect proboscis and floral nectar spur length. Scandanavian Association for Pollination Ecology 2020 (online meeting), talk.
11. **K.J.R.P. Byers**. 2020. The genetic basis of wing and genital scents in *Heliconius* butterflies. Bio-Diverse Festival (online meeting), talk.
10. **K.J.R.P. Byers**. 2020. QTL for potential wing and genital pheromone compounds show clustering across the genome. International *Heliconius* biweekly seminar, talk.
9. **K.J.R.P. Byers**. 2019. Wing pheromones in *Heliconius* butterflies: physiology, behavior, and genetics. SMBE 219 (Manchester, UK), poster.
8. **K.J.R.P. Byers**. 2019. Wing pheromones in *Heliconius* butterflies: neuroethology, genetics, and reproductive isolation. Evolution 2019 (Providence, RI, USA), talk.
7. **K.J.R.P. Byers**. 2019. Wing pheromones in *Heliconius* butterflies: physiology, behavior, and genetics. Evolutionary Genetics and Genomics Symposium 2019 (Cambridge, UK), talk.
6. **K.J.R.P. Byers**. 2019. Female responses to conspecific and heterospecific male wing pheromones in *Heliconius* butterflies. Gordon Research Conference: Speciation 2019 (Ventura, CA, USA), poster.
5. **K.J.R.P. Byers**. 2019. Wing pheromones in *Heliconius*: physiology, behavior, and genetics. PopGroup 52 (Oxford, UK), poster.
4. **K.J.R.P. Byers**. 2018. Female responses to conspecific and heterospecific male wing pheromones in *Heliconius* butterflies. Entomology 2018 (Vancouver, Canada), talk.
3. **K.J.R.P. Byers**. 2018. Female responses to male wing pheromones in *Heliconius* butterflies. ESEB 2018 (Montpellier, France), poster.
2. **K.J.R.P. Byers**, R.T. Kellenberger, & P.M. Schlüter. 2017. Selection on floral traits in two species of Alpine orchids (*Gymnadenia*). Evolution 2017 (Portland, OR, USA), poster.
1. **K.J.R.P. Byers**, R.T. Kellenberger, & P.M. Schlüter. 2017. Hybridization between two species of orchids in the European Alps. Gordon Research Conference and Seminar: Speciation 2017 (Lucca (Barga), Italy), poster.

Professional service

Associate Editor: *Functional Ecology*

Ad-hoc reviewer: National Science Foundation, Division of Environmental Biology (USA); Agence Nationale de la Recherche (France)

Reviewer: *Alpine Botany*; *American Journal of Botany*; *The American Naturalist*; *Applications in Plant Sciences*; *Current Biology*; *Ecology and Evolution*; *Environmental Pollution*; *Evolutionary*

Ecology; *Evolution*; *Frontiers in Ecology and Evolution*; *Frontiers in Plant Science*; *Functional Ecology*; *G3: Genes|Genomes|Genetics*; *Insects*; *Journal of Experimental Biology*; *Molecular Ecology*; *New Phytologist*; *Oikos*; *Plant Biology*; *PeerJ*; *PLOS ONE*; *Scientific Reports*; *Trends in Plant Science*

Professional committee service:

2022-present	Co-chair, Diversity Committee, Society for the Study of Evolution
2021-present	Member, Diversity Committee, Society for the Study of Evolution

Institutional committee service:

2022-present	Founding co-chair, Accessibility Advocates Group, John Innes Centre
2021-present	Member, Horticultural Services Steering Group, John Innes Centre
2021	Member, BBSRC SIFT, John Innes Centre
2020	Member, Postdoctoral Committee, University of Cambridge Department of Zoology
2014-2017	Postdoctoral representative, Department of Systematic and Evolutionary Botany Advisory Committee
2013-2014	Co-chair, University of Washington Committee on Disability Issues
2011-2013	Member, Faculty Appointments Committee, UW Department of Biology
2010-2014	Member, University of Washington Committee on Disability Issues
2009-2014	Member, University of Washington Institutional Review Board B
2009-2010	Member, Graduate Program Committee, UW Department of Biology
2005-2007	Member, MIT Committee on the Use of Humans as Experimental Subjects (IRB)

Society memberships

American Society of Naturalists
Botanical Society of America
British Ecological Society
Society for the Study of Evolution