

# SIMON A. QUEENBOROUGH

Yale School of Forestry  
& Environmental Studies,  
195 Prospect St,  
Yale University,  
New Haven, CT 06511

Phone: (203) 432-3660

[simon.queenborough@yale.edu](mailto:simon.queenborough@yale.edu)  
<http://www.simonqueenborough.info>

## Appointments

*Yale School of Forestry & Environmental Studies*

2019– Senior Lecturer and Research Scientist

2014–2019. Lecturer and Research Scientist

2014– Mrs John (Elizabeth W.) Musser Director of the [Tropical Resources Institute](#) at Yale University

*The Ohio State University*

2013–2014. Assistant Professor, Dept. of Evolution, Ecology & Organismal Biology

2011–2013. Senior Research Associate, Dept. of EEOB

*National Center for Ecological Analysis & Synthesis*

2010–2011. Postdoctoral Research Fellow

*University of Sheffield, UK*

2006–2010. Postdoctoral Research Fellow, Dept. of Animal & Plant Sciences

## Education

*University of Aberdeen, UK*

2006. Ph.D., Tropical Ecology

*Royal Botanic Gardens Edinburgh & University of Edinburgh, UK*

2001. M.Sc. w/ Distinction, Biodiversity and Taxonomy of Plants

*St Catharine's College, University of Cambridge, UK*

2000. B.A. (Hons), Natural Sciences (Plant Sciences)

## Publications

*Journal articles*

\* indicates graduate student coauthor; \*\* undergraduate student coauthor.

*In review*

Du, Y., Mao, L., **Queenborough, S.A.**, Primack, R., Comita, L.S., Hampe, A., & Ma, K. 0000. Macro-scale variation and environmental predictors of angiosperm reproductive phenology in the Chinese flora. *Ecography*.

Goodsell, R.M.\* , Spencer, M., Vergnon, R., Coutts, S., **Queenborough, S.A.**, Swinfield, T., Childs, D.Z., Freckleton, R.P. 0000. Developing hierarchical density-structured models to study the national-scale dynamics of an arable weed. *Ecological Monographs*.

*Published*

46. Sullivan, M.K.\* & **Queenborough, S.A.** 2020. INSIGHTS: Precipitation gradients, plant biogeography, and the incidence of drip-tips in Cerrado plant species. *Biotropica*. Accepted.
45. Woodbury, D.J.\* , Yassir, I., Arbainsyah, Doroski, D.A.\* , **Queenborough, S.A.**, & Ashton, M.A. 2019. Filling a void: Analysis of early tropical soil and vegetative recovery under leguminous, post-coal mine reforestation plantations in East Kalimantan, Indonesia. *Land Degradation & Development*. Early view. doi: 10.1002/ldr.3464
44. DiFiore, B.P.\* , **Queenborough, S.A.**, Madin, E.M.P., Paul, V.J., Decker, M.B., & Stier, A.C. 2019. Herbivore density, more than predation risk, drives variation in grazing patterns visible from space. *Marine Ecology Progress Series*, 627, 71–81. doi: 10.3354/meps13074
43. Crawford, K.M., Bauer, J.T., Comita, L.S., Eppinga, M.B., Johnson, D.J., Mangan, S.A., **Queenborough, S.A.**, Strand, A.E., Suding, K.N., Umbanhowar, J., & Bever, J.D. 2019. When and where plant-soil feedback may promote plant coexistence: A meta-analysis. *Ecology Letters*, 22, 1274–1284. doi: 10.1111/ele.13278
42. Tokarz, E.\*\* , Alvia, P., Valencia, R., & **Queenborough, S.A.** 2019. Habitat niche partitioning by seven *Heliconia* species in a lowland tropical rain forest in Amazonian Ecuador. *Journal of Tropical Ecology*, 35, 91–94. doi: 10.1017/S0266467419000026
41. **Queenborough, S.A.** 2018. Tropical Humid Forest Biome. *Oxford Bibliographies in Ecology*. doi: 10.1093/obo/9780199830060-0203
40. Krishnadas, M.\* , Beckman, N., Penagos-Zuluaga, J.C.\* , Zhu, Y., Whitacre, J., Wenzel, J., **Queenborough, S.A.**, & Comita, L.S. 2018. Environment and land-use legacies together predict functional diversity in a temperate forest. *Ecological Applications*, 28, 2142–2152. doi: 10.1002/eap.1802
39. Bemmels, J.\* , Wright, S.J., Garwood, N.C., **Queenborough, S.A.**, Valencia, R., & Dick, C.W. 2018. Filter-dispersal assembly of lowland Neotropical rainforests across the Andes. *Ecography*, 41, 1763–1775. doi: 10.1111/ecog.03473

38. Zhu, Y., **Queenborough, S.A.**, Condit, R., Hubbell, S.P., Ma, K.P., & Comita, L.S. 2018. Density-dependent survival varies with species life-history strategy in a tropical forest. *Ecology Letters*, 21, 506–515. doi: 10.1111/ele.12915
37. Fotis A.T.\*<sup>\*</sup>, Ricart, R.D.\*<sup>\*</sup>, Murphy, S.J.\*<sup>\*</sup>, Krishnadas, M.\*<sup>\*</sup>, Whitacre, J., Wenzel, J.W., **Queenborough, S.A.**, & Comita, L.S. 2018. Aboveground biomass is driven by selection effects and stand structural attributes in a temperate deciduous forest. *Journal of Ecology*, 106, 561–570. doi: 10.1111/1365-2745.12847
36. Du, Y., **Queenborough, S.A.**, Chen, L., Wang, Y., Mi, X., Ma, K., & Comita, L.S. 2017. Intraspecific and phylogenetic density-dependent seedling recruitment in a subtropical evergreen forest. *Oecologia* 184, 193–203. doi: 10.1007/s00442-017-3842-3
35. Delavaux, C.S.\*<sup>\*</sup>, Camenzind, T., Homeier, J., Jimenez-Paz, R.\*\*<sup>\*\*</sup>, Ashton, M.S., & **Queenborough, S.A.** 2017. Nutrient enrichment effects on mycorrhizal fungi in an Andean tropical montane forest. *Mycorrhiza* 27, 311–319. doi: 10.1007/s00572-016-0749-5
34. Smith, J.R.\*<sup>\*</sup>, **Queenborough, S.A.**, Alvia Zambrano, L.P., Romero, H. & Valencia, R. 2017. No strong evidence for increasing liana abundance in the Myristicaceae of a Neotropical aseasonal rain forest. *Ecology* 98, 456–466. doi: 10.1002/ecy.1657
33. **Queenborough, S.A.**. Collections-based studies of plant functional traits. 2017. *Scientia Danica. Series B, Biologica* 6, 223–236. Proceedings of the meeting: Tropical Plant Collections: Legacies from the past? Essential tools for the future?.
32. Báez, S., Donoso, D.A., **Queenborough, S.A.**, Jaramillo, L.\*\*<sup>\*\*</sup>, Valencia, R., & Dangles, O. 2016. Ant mutualism increases long-term growth and survival of a common Amazonian tree. *The American Naturalist* 188, 567–575. doi: 10.1086/688401
31. Ninazunta, M.\*\*<sup>\*\*</sup>, **Queenborough, S.A.**, Hernández, C., & Valencia, R. 2016. Growth strategies of the arborescent palm *Iriartea deltoidea*, in a western Amazonian forest. *Botanical Journal of the Linnean Society* 182, 411–424. doi: 10.1111/boj.12448
30. Gutiérrez-Santiago, J.\*<sup>\*</sup>, Jasso-Mata, J., **Queenborough, S.A.**, Soto-Hernández, M., Rzedowski, J., Jiménez-Casas, M., & Castillo-Martínez, C.R. 2016. Sexual

classification of linaloe (*Bursera linanoe*, Burseraceae) and productive implications for the essential oil, in three natural populations in the state of Guerrero, Mexico. *Agroproductividad* 9, 66–72.

29. Muehleisen, A.\*\* **Queenborough, S.A.**, Alvia Zambrano, L.P., Valencia, R., & Fiala, B. 2016. Incidence of extra-floral nectaries and their relationship to growth and survival of lowland tropical rain forest trees. *Biotropica* 48, 321–331. doi: 10.1111/btp.12310
28. Calinger, K.M.\* **Queenborough, S.A.**, Calhoun, E.A.\* **Queenborough, S.A.**, Chang, H., Whitacre, J., Wenzel, J., Comita, L.S., & **Queenborough, S.A.** 2015. Historic mining and agriculture as indicators of occurrence and abundance of widespread invasive plant species. *PLoS One* 10(6): e0128161. doi: 10.1371/journal.pone.0128161
27. Du, Y., Mao, L., **Queenborough, S.A.**, Freckleton, R.P., Chen, B., & Ma, K. 2015. Phylogenetic constraints and trait correlates of flowering phenology in the angiosperm flora of China. *Global Ecology & Biogeography* 24, 928–938. doi: 10.1111/geb.12303
26. Murphy, S.J.\* **Queenborough, S.A.**, Audino, L.D.\* **Queenborough, S.A.**, Whitacre, J., Eck, J.L.\* **Queenborough, S.A.**, Wenzel, J.W., **Queenborough, S.A.**, & Comita, L.S. 2016. Species associations structured by environment and land-use history promote beta-diversity in a temperate forest. *Ecology* 96, 705–715. doi: 10.1890/14-0695.1
25. Hellmann, J.K.\* **Queenborough, S.A.**, Erikson, J.S., & **Queenborough, S.A.** 2015. Evaluating macroinvertebrate community shifts in the nexus of freestone and limestone streams. *Journal of Limnology* 74, 64–74. doi: 10.4081/jlimnol.2014.935
24. Ward, S.M., Cousens, R.D., Bagavathiannan, M.V., Barney, J.N., Beckie, H.J., Busi, R., Davis, A.S., Dukes, J.S., Forcella, F., Freckleton, R.P., Gallandt, E.R., Hall, L.M., Jasieniuk, M., Lawton-Rauh, A., Lehnhoff, E.A., Liebman, M., Maxwell, B.D., Mesgaran, M.B., Murray, J.V., Neve, P., Nuñez, M.A., Pauchard, A., **Queenborough, S.A.**, & Webber, B.L. 2014. Agricultural weed research: A critique and two proposals. *Weed Science* 62, 672–678. doi: 10.1614/WS-D-13-00161.1
23. Comita, L.S., **Queenborough, S.A.**, Eck, J.L.\* **Queenborough, S.A.**, Murphy, S.\* **Queenborough, S.A.**, Xu, K.\*\* **Queenborough, S.A.**, Krishnadas, M.\* **Queenborough, S.A.**, Beckman, N., & Zhu, Y. 2014. Testing predictions of the Janzen-Connell hypothesis: A meta-analysis of experimental evidence for distance- and density-dependent seed and seedling survival. *Journal of Ecology* 102, 845–856. doi: 10.1111/1365-2745.12232

22. Amano, T., Freckleton, R.F.P., **Queenborough, S.A.**, Doxford, S.W., Smithers, R.J., Sparks, T.H., & Sutherland, W.J. 2014. Phenological responses to warming determine changes in niche over space and time. *Proceedings of the Royal Society, B* 281, 20133017. doi: 10.1098/rspb.2013.3017
21. Boudouris, J.\*\* & **Queenborough, S.A.** 2013. Diversity and distribution of extra-floral nectaries in the cerrado savanna vegetation of Brazil. *PeerJ* 1, e219. doi: 10.7717/peerj.219.
20. **Queenborough, S.A.**, Forget, P.-M., & Russo, S. 2013. Adding spice to life: A special issue on the Myristicaceae. *Tropical Conservation Science* 6, 592–594. Special issue.
19. **Queenborough, S.A.**, Humphreys, A.\* & Valencia, R. 2013. Sex specific flowering patterns in the understory rain forest tree *Iryanthera hostmannii* (Myristicaceae). *Tropical Conservation Science* 6, 637–652. Special issue.
18. **Queenborough, S.A.**, Metz, M.R., Valencia, R., & Wright, S.J. 2013. Demographic consequences of chromatic leaf defence in tropical tree communities – do red young leaves increase growth and survival? *Annals of Botany* 112, 677–684. doi: 10.1093/aob/mct144
17. Callinger, K.\*, Curtis, P.S., & **Queenborough, S.A.** 2013. Herbarium specimens reveal the footprint of climate change on flowering trends across north-central North America. *Ecology Letters* 16, 1037–1044. doi: 10.1111/ele. 12135
16. Cooke, I.R., Mattison, E.H., Audsley, E., Bailey, A., Freckleton, R.F.P., Graves, A.R., Morris, J., **Queenborough, S.A.**, Sanders, D.L., Sirawarden, G., Trawick, G., Watkinson, A.R., & Sutherland, W.J. 2013. Empirical test of an agricultural landscape model: The importance of farmer preference for risk-aversion and crop complexity. *SAGE Open* 3, no. 2 2158244013486491. doi: 10.1177/2158244013486491
15. Jimenez, A.G., Harper, J.M., **Queenborough, S.A.**, & Williams, J.B. 2013. Linkages between the life-history evolution of tropical and temperate birds and the resistance of their cells to oxidative and non-oxidative chemical injury. *Journal of Experimental Biology* 216, 1373–1380. doi: 10.1242/jeb.079889
14. **Queenborough, S.A.** & Porras, C.A.\*\* 2013. Expanding coverage of plant trait databases – a comparison of specific leaf area derived from fresh and dried leaves. *Plant Ecology & Diversity* 7, 383–388. doi: 10.1080/17550874.2013. 777483

13. Gao, J., **Queenborough, S.A.**, & Chai, J.P. 2012. Flowering sex ratios and spatial distribution of dioecious trees in a SE Asian seasonal rain forest. *Journal of Tropical Forest Science* 24, 517–527. [journal homepage](#)
12. Curtis, P.S. & **Queenborough, S.A.** 2012. Commentary: Raising the standards for ecological meta-analysis. *New Phytologist* 195, 279–281. doi: 10.1111/j.1469-8137.2012.04207.x
11. Bai, X.\* **Queenborough, S.A.**, Wang, X., Zhang, J., Yuan, Z., Xing, D., & Hao, Z. 2012. Effects of local biotic neighbours and habitat heterogeneity on tree and shrub seedling survival in an old-growth temperate forest. *Oecologia*, 170: 755–765. doi: 10.1007/s00442-012-2348-2
10. **Queenborough, S.A.**, Metz, M.R., Wiegand, T., & Valencia, R. 2012. Palms, peccaries and perturbations: Widespread effects of small-scale disturbance in tropical forests. *BMC Ecology* 12: 3. doi: 10.1186/1472-6785-12-3
9. **Queenborough, S.A.**, Burnet, K.M.\* Sutherland, W.J., Watkinson, A.R., & Freckleton, R.F.P. 2011. From meso- to macro-scale population dynamics: A density structured approach. *Methods in Ecology & Evolution* 2, 289–302. doi: 10.1111/j.2041-210X.2010.00075.x
8. Freckleton, R.F.P., Sutherland, W.J., Watkinson, A.R., & **Queenborough, S.A.** 2011. Density structured models for plant population dynamics. *American Naturalist* 177, 1–17. doi: 10.1086/657621
7. Vamosi, S.M. & **Queenborough, S.A.** 2010. Breeding systems, phylogenetic diversity and abundance along a large-scale elevational gradient. *Journal of Biogeography* 37, 465–476. doi: 10.1111/j.1365-2699.2009.02214.x
6. **Queenborough, S.A.**, Burslem, D.F.R.P., Garwood, N.C., & Valencia, R. 2009. Taxonomic scale of niche partitioning and local neighbourhood effects on survival of tropical tree seedlings. *Proceedings of the Royal Society, B.* 276, 4197–4205. doi: 10.1098/rspb.2009.0921
5. **Queenborough, S.A.**, Mazer, S.J., Vamosi, S.M., Garwood, N.C., Valencia, R., & Freckleton, R.F.P. 2009. Seed mass, abundance and breeding system among tropical forest species: Do dioecious species exhibit compensatory reproduction or abundances? *Journal of Ecology* 97, 555–566. doi: 10.1111/j.1365-2745.2009.01485.x
4. Cooke, I.R., **Queenborough, S.A.**, Mattison, E.H., Bailey, A.P., Sandars, D.L., Graves, A.R., Morris, J., Atkinson, P.W., Trawick, P., Freckleton, R.F.P., Watkinson, A.R. & Sutherland, W.J. 2009. Integrating socio-economics and ecology:

A review of applications and approaches. *Journal of Applied Ecology* 46, 269–277. doi: 10.1111/j.1365-2664.2009.01615.x

3. **Queenborough, S.A.**, Burslem, D.F.R.P., Garwood, N.C., & Valencia, R. 2007. Neighborhood and community interactions determine the spatial pattern of tropical tree seedling survival. *Ecology* 88, 2248–2258 doi: 10.1890/06-0737.1
2. **Queenborough, S.A.**, Burslem, D.F.R.P., Garwood, N.C., & Valencia, R. 2007. Determinants of biased sex ratios and differential costs of reproduction in dioecious tropical forest trees. *American Journal of Botany* 94, 67–78. doi: 10.3732/ajb.94.1.67
1. **Queenborough, S.A.**, Burslem, D.F.R.P., Garwood, N.C., & Valencia, R. 2007. Habitat niche partitioning by 16 species of Myristicaceae in Amazonian Ecuador. *Plant Ecology* 192, 193–207. doi: 10.1007/s11258-007-9328-3

#### Other writing

9. **Simon A. Queenborough** 2012. The habits of successful ecologists: How to write right, right!? *Bulletin of the British Ecological Society* 44 (2), 36–38.
8. **Simon A. Queenborough** 2011. The habits of successful ecologists: Time management. *Bulletin of the British Ecological Society* 42 (3) 34–37.
7. **Simon A. Queenborough** & John N. Parker. 2011. The habits of successful ecologists: Learning from the best. *Bulletin of the British Ecological Society* 43, 31–34.
6. **Simon A. Queenborough** & Ira R. Cooke. 2011. The habits of successful ecologists, or Does Facebook count as outreach? *Bulletin of the British Ecological Society* 42 (1), 40–42.
5. **Simon A. Queenborough** & Liza S. Comita. 2011. Should ecological science be ethical? *Union Seminary Quarterly Review* 63, 18–25.
4. William J. Sutherland et al. 2010. Is wildlife conservation compatible with arable farming? Evaluating the options for sustainable agriculture. *RELU Policy and Practice Notes* 23, December.
3. **Simon A. Queenborough**, Ira R. Cooke & Mark P. Schildhauer. 2010. Do we need an Eco-Bank? The ecology of data-sharing. *Bulletin of the British Ecological Society* 41 (3), 32–35.



2. **Simon A. Queenborough** & Ira R. Cooke. 2010. [Do humans count in ecology? Quantitative methods can link socio-economics and ecology.](#) *Bulletin of the British Ecological Society* 41 (1), 57–58.
1. **Simon A. Queenborough.** 2007. Book review of *Forest Ecology and Conservation. A handbook of techniques.* Newton, A.C. (2007) OUP. *Environmental Conservation* 34, 2–3.

Invited Talks  
(Since 2007)

- 2019 **Simon A. Queenborough** *Que diablos! Historia natural de una relación mutualista en el Parque Nacional Yasuní.* Museo de Historia Natural Gustavo Orcés V., Escuela Politécnica Nacional, Quito. June 2019.
- 2017 **Simon A. Queenborough** *Hiding in Plain Text: Tools and techniques for teaching effectively and efficiently.* Yale Center for Teaching and Learning, Yale University. Nov 2017.
- 2016 **Simon A. Queenborough** & Henrik Balslev. *Where do all the (dioecious) flowers go? Diversity and distribution of breeding systems in Neotropical palms.* Association for Tropical Biology & Conservation meeting. Session: Palm ecology in a changing world. Montpellier, France, June 2016.
- 2016 **Simon A. Queenborough** *Diversity and distribution of plant breeding systems.* New York Botanical Garden.
- 2015 **Simon A. Queenborough** *Diversity and distribution of plant breeding systems.* Meeting: Biodiversity and Conservation of the Tropical Andes and the Amazon Rainforest. Lima, Peru. October 2015.
- 2015 **Simon A. Queenborough.** *Collections based studies of plant functional traits.* Meeting: Tropical Plant Collections: Legacies from the past? Essential tools for the future? in the Royal Danish Academy of Sciences and Letters. Copenhagen, Denmark. May 2015.
- 2013 **Simon A. Queenborough.** *Long-term flowering and fruiting patterns in dioecious tropical forest trees: implications for coexistence.* Department of Plant Biology, Ohio University, Athens, OH, USA.
- 2013 **Simon A. Queenborough,** Margaret R. Metz, Andrew Muehleisen, Renato Valencia and Brigitte Fiala. *Mecanismos de defensas de plantas contra la herbivoría.* Department of Biology, Pontificia Universidad Católica del Ecuador, Quito, and Yasuni Scientific Research Station, Ecuador.
- 2013 **Simon A. Queenborough,** Amy E. Kulesza and Matt Misika. *Actively teaching Intro Biology.* Center for Life Science Education, The Ohio State University, Columbus, OH, USA.
- 2013 **Simon A. Queenborough.** *Coexistence, trade-offs and plant population dynamics.* Department of Evolution, Ecology & Organismal Biology, The Ohio State University, Columbus, OH, USA.



- 2012 **Simon A. Queenborough**. *From forest to farm and back again: pure and applied ecology in human-influenced ecosystems*. School of Forestry and Environmental Studies, Yale University, New Haven, CT, USA.
- 2012 **Simon A. Queenborough**, Margaret R. Metz, Renato Valencia. *Leaf defences of tropical tree seedlings: shedding light onto herbivory-mediated patterns of biodiversity*. Ecological Society of America Annual Meeting, Portland, USA. Invited contribution to seedling herbivory symposium.
- 2012 **Simon A. Queenborough**, Margaret R. Metz, Renato Valencia. *Efecta de defensas de plantas contra la herbivoría*. Yasuni Scientific Research Station, Ecuador.
- 2010 **Simon A. Queenborough**. *Variety is the spice of life: Evolution and ecology of plant breeding systems*. Department of Evolution, Ecology & Organismal Biology, The Ohio State University, Columbus, OH, USA.
- 2009 **Simon A. Queenborough**, Nancy C. Garwood, Susan Mazer, Steve Vamosi and Renato Valencia. *Seed mass, abundance and breeding system in tropical forest tree species*. Department of Animal and Plant Sciences, University of Sheffield, Sheffield, UK.
- 2008 **Simon A. Queenborough**, Nancy C. Garwood, Susan Mazer, Steve Vamosi and Renato Valencia. *Seed mass, abundance and breeding system in tropical forest tree species*. Association for Tropical Biology and Conservation Annual Meeting, Surinam.
- 2007 **Simon A. Queenborough** *Análisis espacial de sexos y plántulas de la familia dioica Myricaceae dentro de la Amazonía Ecuatoriana*. Department of Biology, Pontificia Universidad Católica del Ecuador, Quito, Ecuador.
- 2007 **Simon A. Queenborough** *Spatial analyses of sex ratios and seedlings of Myricaceae trees in the Ecuadorian Amazon*. Department of Ecology and Evolution, University of Arkansas, USA.
- 2002–2007 Various presentations to academics, oil company executives and student groups visiting Yasuní Scientific Research Station, Ecuador.
- 2019 **Simon A. Queenborough**. *Dinner in the Devil's Garden. Herbivory, dioecism, and population dynamics of the ant-plant *Duroia hirsuta* (Rubiaceae)*. Sussex Plant Biology Symposium. Connecticut Agricultural Experiment Station, New Haven, CT, November 2019.
- 2019 **Simon A. Queenborough** & Megan Sullivan\* *Rainfall drives leaf form in the Cerrado*. British Ecological Society Tropical Ecology Group meeting. Edinburgh, April 2019.
- 2018 **Simon A. Queenborough** & Megan Sullivan\* *Rainfall drives leaf form in the Cerrado*. Congreso Latinoamerica de Botanica. Quito, Ecuador. Oct 2018.

Conference  
Presentations  
(Since 2005)

- 2018 **Simon A. Queenborough**. *Diversity and distribution of breeding systems in Neotropical palms*. Sussex Plant Biology Symposium. Connecticut Agricultural Experiment Station, New Haven. Sept 2018.
- 2017 **Simon A. Queenborough** & Megan Sullivan\* *Macroecological patterns of leaf size, shape, and function in the cerrado*. Association for Tropical Biology & Conservation meeting. Merida, Mexico, July 2017.
- 2016 Kerri M. Crawford, Jonathan Bauer, Liza S. Comita, Maarten Eppinga, Daniel Johnson, Scott A. Mangan, Allan E. Strand, Katharine N. Suding, James Umbanhowar, James D. Bever, **Simon A. Queenborough**. *Plant evolutionary history determines the strength of plant-soil feedback*. Ecological Society of America meeting, Fort Lauderdale, FL. USA, August 2016.
- 2016 Yan Zhu, Liza S. Comita, **Simon A. Queenborough**, Keping Ma. *Density dependent tree survival varies with species life history strategies of growth-mortality trade-off in a tropical forest*. Ecological Society of America meeting, Fort Lauderdale, FL. USA, August 2016.
- 2016 Camille Delavaux, Jurgen Homeier, Rosa Jimenez-Paz, Mark S. Ashton, **Simon A. Queenborough**. *Nutrient enrichment effects on mycorrhizal fungi in an Andean tropical montane forest*. Ecological Society of America meeting, Fort Lauderdale, FL. USA, August 2016.
- 2016 Jesse R. Lasky, María Uriarte, James S. Clark, Patricia Alvarez-Loayza, Jimena Forero-Montaña, Helene C. Muller-Landau, **Simon Queenborough**, Varun Swamy, Nathan G. Swenson, John Terborgh, Fernando Cornejo Valverde, S. Joseph Wright, Jess K. Zimmerman. *The effects of inter-annual climatic variation on fecundity of tropical rainforest trees*. Ecological Society of America meeting, Fort Lauderdale, FL. USA, August 2016.
- 2015 Yanjun Du, Liza S. Comita, Lei Chen, **Simon A. Queenborough**, Xiangcheng Mi, Keping Ma. *Intraspecific and phylogenetic density-dependent recruitment in a subtropical evergreen forest*. Ecological Society of America meeting, Baltimore, USA, August 2015.
- 2015 Juan Gutiérrez-Santiago, J. Jasso-Mata, M. Soto-Hernández, **S.A. Queenborough** & Marcos Jiménez-Casas. Producción de aceites esenciales frutales de árboles dioicos hembra y monoicos de *Bursera linanoe*. SOMEREF0, Mexico.
- 2015 Camille Delavaux, Mark Ashton, **Simon Queenborough**, Jürgen Homier, Tessa Camenzind, Rosa Jiménez Paz. *Poster: Nutrient enrichment effects on mycorrhizal fungi in southern Ecuador*. The 8th International Conference on Mycorrhiza, Flagstaff, AZ, USA. August 7, 2015.
- 2015 Andrew J. Muehleisen, **Simon A. Queenborough**, Pablo Alvia, Renato Valencia, Brigitte Fiala. *Poster: Incidence of extra-floral nectaries and their relationship to growth and survival of lowland tropical rain forest trees*. Ecological Society of

- America meeting, Baltimore, USA, August.
- 2014 **Simon A. Queenborough**, S. Hibbard, R. Valencia, J. Weintritt, & L.P.A. Zambrano. *Shadows of megafaunal seed dispersal mechanisms in western Amazonian forests*. Megafauna and Ecosystem Function: from the Pleistocene to the Anthropocene, University of Oxford, UK.
- 2014 Shannon Hibbard and **Simon A. Queenborough**. *Fruits of the Giants: megafaunal fruit species in Yasuni, Ecuador*. Natural and Mathematical Sciences Undergraduate Research Forum, The Ohio State University.
- 2014 Murphy, S.J, L.D. Audino, J. Whitacre, J. Eck, J. Wenzel, **S.A. Queenborough**, and L.S. Comita. *Species associations structured by environment, space, and land use history promote beta-diversity in a mixed species forest community*. Midwest Ecology and Evolution Conference, Dayton, Ohio.
- 2013 Andrew Muehleisen and **Simon A. Queenborough**. *Incidence and Ecological Significance of Extra-Floral Nectaries on Tropical Rain Forest Trees*. Denman Undergraduate Research Forum, The Ohio State University.
- 2013 Laura Mason and **Simon A. Queenborough**. *Effects of Environment, Stature, Life Form and Method of Seed Dispersal on the Male to Female Sex-Ratios of Dioecious Populations*. Denman Undergraduate Research Forum, The Ohio State University.
- 2012 **Simon A. Queenborough**, Andrew Muehleisen, Margaret R. Metz & Renato Valencia. *Leaf defenses of tropical tree seedlings: shedding light onto herbivory-mediated patterns of biodiversity*. Ecosummit 2012, Columbus, OH, USA.
- 2012 **Simon A. Queenborough**, Margaret R. Metz & Renato Valencia. *Leaf defenses of tropical tree seedlings: shedding light onto herbivory-mediated patterns of biodiversity*. British Ecological Society Annual Meeting, University of Birmingham, UK.
- 2012 Matthew Smith, Tim Newbold, Simon Creer, Alex Dumbrell, Guy Woodward, David Bass, **Simon A. Queenborough**, Rob Freckleton, Jonathan Silvertown & Doug Yu. *Systems Ecology Workshop: Understanding systems ecology using emerging multidisciplinary toolboxes*. BES Annual Meeting, University of Birmingham, Birmingham, UK.
- 2012 John Boudouris & **Simon A. Queenborough**. *Diversity and distribution of extra-floral nectaries in the savanna vegetation of South America*. Denman Undergraduate Research Forum, The Ohio State University.
- 2012 Andrew Muehleisen, **Simon A. Queenborough**. Natural and Mathematical Sciences Undergraduate Research Forum, The Ohio State University.
- 2010 Association for Tropical Biology and Conservation Annual Meeting (Bali, Indonesia).
- 2009 British Ecological Society Annual Meeting (University of Hertfordshire, UK).

- 2008 Early Career Researcher Meeting, British Ecological Society Tropical Ecology Group (University of Oxford, UK).
- 2008 British Ecological Society Annual Meeting (Imperial College London, UK).
- 2007 Association for Tropical Biology and Conservation Annual Meeting (Morelia, Mexico).
- 2007 Early Career Researcher Meeting, British Ecological Society Tropical Ecology Group (University of Leeds, UK).
- 2007 British Ecological Society Annual Meeting (University of Glasgow, UK).
- 2006 Center for Tropical Forest Science Symposium (Panama City, Panamá).
- 2006 British Ecological Society Annual Meeting (University of Oxford, UK).
- 2005 British Ecological Society Annual Meeting (University of Hertfordshire, UK).

#### Grants and Awards

- 2019 British Ecological Society: How old is that forest? Using *Cecropia* as a biological clock to age secondary forest.
- 2018 NSF LTREB Collaborative Research: Cyclic vs. anthropogenic causes of long-term variation in the regeneration of tropical forests with contrasting latitude and diversity (senior personnel).
- 2018 Yale Center for Teaching and Learning *Rosenkranz Award for Pedagogical Advancement*.
- 2012 Summer Undergraduate Research Fellowship to Andrew Muehleisen (Honors student), The Ohio State University.
- 2008 Postdoctoral Fellowship. National Center for Ecological Analysis & Synthesis, Santa Barbara, 2010-2012.
- 2008 Reproductive functional traits of tropical forest trees. Systematics Association.
- 2006 Reproductive strategies of the Myristicaceae in Amazonian Ecuador. Smithsonian Center for Tropical Forest Science research grant.
- 2006 Studies of the reproductive strategies of the Myristicaceae in Amazonian Ecuador. British Ecological Society small ecological projects grant.
- 2004 Reproductive strategies of the Myristicaceae in Amazonian Ecuador. Smithsonian Center for Tropical Forest Science research grant.
- 2001 A test of the reproductive and recruitment consequences of differential abundance between closely related tropical tree species. The Leverhulme Trust Study Abroad Studentship.

#### Teaching & mentoring

##### Courses

- 2019 FES 717: Tropical Field Ecology (with Liza Comita), 12 students.
- 2019 FES 603: Environmental Data Visualization and Communication (with Jenn Marlon), 24 students.

- 2019 FES 611: Environmental Data Science (with Eli Fenichel and Jenn Marlon), 9 students.
- 2019 FES 720: Introduction to R. 35 students.
- 2019 Independent study: 5 students.
- 2018 FES 603: Environmental Data Visualization and Communication (with Jenn Marlon), 45 students.
- 2018 FES 720: Introduction to R. 35 students.
- 2018 FES 717: Tropical Field Ecology (with Liza Comita), 16 students.
- 2018 Research credit: Caroline Hobbs, Rebecca Lehman, Thomas Launer.
- 2018 Independent study for ISTF conference leaders writing up special issue for *Journal of Sustainable Forestry*.
- 2017 Invited Lecture: *Hiding in Plain Text: Tools and techniques for teaching effectively and efficiently*. Yale Center for Teaching and Learning. Nov 2017.
- 2017 Research credit: Caroline Hobbs, Brian Lee.
- 2017 Guest lecturer, FES 611a: Data Science for Social Research: An Introduction (Justin Farrell).
- 2017 FES 720a: Introduction to R. 34 students.
- 2017 FES 717b: Tropical Field Ecology (with Walter Jetz, EEB), 20 students.
- 2016 FES 720a: Introduction to R. 20 students.
- 2016 FES 717b: Tropical Field Ecology (with Liza Comita), 15 students.
- 2016 Independent study for ISTF conference leaders writing up special issue for *Journal of Sustainable Forestry*.
- 2015 FES 720a: Introduction to R.
- 2015 FES 717b: Tropical Field Ecology. 15 students (with Liza Comita).
- 2014 Guest lecturer, Biology 4000: Biological Roots in England; London Honors.
- 2013 EEOB 8896.11: Graduate seminar, Population Ecology: [Introduction to R for Biologists](#). Autumn, 19 students.
- 2013 EEOB 8896.04: Graduate seminar, Temperate Forest Ecology And Data Analysis. Spring, 10 students.
- 2012 EEOB 1114: Form, Function & Ecology. Autumn, 176 undergraduate students.
- 2012 EEOB 881: Graduate seminar: Introduction to R for Biologists. Spring, 21 students.
- 2012 EEOB H557: Tropical Field Ecology, Panama. Spring, 15 undergraduate students.
- 2010 Analysis of density dependent processes using forest plot data. Statistical computing course in R. Chinese Academy of Sciences, Beijing, China. Summer, 40 students, 2 faculty.

- 2010 R statistical computing course, Centre for Ecological Science, Indian Institute of Science, Bangalore, India. Summer, 30 students and 2 faculty.
- 2010 R statistical computing course, Pontificia Universidad Católica del Ecuador, Quito, Ecuador. Spring, 20 graduate students and 2 faculty.
- 2008 Co-leader, Tropical Field Ecology, University of Sheffield, UK, and Danum Valley, Borneo. Summer, 15 students.

#### *Post-docs*

- 2020 Juan Penagos. *Diversification of nutmegs (Myristicaceae) and the assembly of Neotropical rain forest communities.*
- 2017 Yan Zhu. *Density-dependent survival varies with species life-history strategy in a tropical forest.*

#### *Ph.D. students*

- 2016– Megan Sullivan, Ph.D. co-advisor (with Liza Comita). *Effects of hunting and logging on the functional traits of tropical forest tree communities.*
- 2014– Andrew Muehleisen, Ph.D. co-advisor (with Liza Comita). *Effects of drought on the ecophysiology of tropical and temperate trees.*
- 2012–2020 [Juan Carlos Penagos Zuluaga](#), Ph.D. co-advisor (with Liza Comita, Michael Donoghue). *Evolution and ecology of breeding systems in early-divergent angiosperms: the Ocotea complex (Lauraceae).*
- 2013–2017 Jenalle Eck, Ph.D. committee. *Local variation in soil pathogen feedbacks and the maintenance of tropical tree diversity.*
- 2013–2014 Meghna Krishnadas, Ph.D. committee. *Socio-ecological dynamics of non-timber forest produce harvest in a rainforest complex of the Western Ghats in south India.*
- 2013–2014 Alex Fotis, Ph.D. committee. *Exploring canopy structure and function as a potential mechanism of sustaining carbon sequestration in aging forests.*
- 2012–2014 [Raleigh Ricart](#), Ph.D. co-advisor (with Peter Curtis). *Ecology of north-eastern temperate forests of the USA.*
- 2011 Xuejiao Bai, Ph.D. co-advisor, Chinese graduate student, Chinese Academy of Sciences. *Effects of local biotic neighbors and habitat heterogeneity on tree and shrub seedling survival in an old-growth temperate forest.*

#### *Research masters students*

- 2020 Deja Curtis, MESC. *Restoration, carbon sequestration, and ecosystem services.*
- 2019 Jesse Gerhke, MF. *Using Cecropia as a biological clock.*
- 2018 AJ Hudson, MESC. *Dinner in the Devil's Garden: Herbivory and negative density dependence in Duroia hirsuta (Rubiaceae).*

- 2018 Indra Achara, MEdSc (with Tim Gregoire). *Nesting ecology and migration of the critically endangered white-bellied heron (Ardea insignis) in Bhutan.*
- 2018 Jessica Lloyd, MFS.
- 2018 David Woodbury, MEdSc (with Mark Ashton). *Evaluation of mine reclamation prescriptions in East Kalimantan: Native monoculture and tree mixture plantations.*
- 2018 Caroline Tasirin, MEdSc (with Mark Ashton). *Tree species distribution, dominance, and carbon significance in Sulawesi, Indonesia.*
- 2017–2018 Bruce Mecca, MEdSc (CIFOR).
- 2016–2018 Caroline Hobbs, MEM. *Coral Resilience and Adaptation: Short term stress responses in Montipora capitata.*
- 2016–2017 Katherine Young, MFS (with Mark Ashton). *Comparing tree diversity and forest structure of Cacao agroforests to secondary forest in the Mata Atlantica, Brazil.*
- 2015–2017 Bart DiFiore, MEdSc. *Herbivory and the landscape of fear in coral patch reefs of the Caribbean.*
- 2014–2016 [Camille Delavaux](#), MEdSc (with Mark Ashton). *Nutrient enrichment effects on mycorrhizal fungi in an Andean tropical montane forest.*
- 2011 James Smith, MSc. University of York, UK. *Change in liana incidence in Yasuní National Park.*
- 2011 Anton Flügg, PhD. field advisor, University College, London, UK. *Sex ratios in the genus Cecropia, dioecious Neotropical pioneer trees.*
- 2009 Luke Smith, MSc. field advisor, University College, London, UK. *Investigation into how indigenous bushmeat hunting effects the recruitment of Atelid-dispersed tree species in a terra firme habitat in Amazonian Ecuador.*

#### *MEM and MF students*

- 2019 Jessica Lloyd.
- 2018 Sneha Pandey.
- 2017 Rebecca Lehman (prize at AGU), Christopher Woodington, Sneha Pandey.
- 2016 Rebecca Lehman, Lydia Mendoza, Christopher Woodington.

#### *Undergraduate students*

- 2019 Leticia Cagnoni. Visiting undergraduate scholar from FABESP, Brasil. *Effects of defaunation on the functional diversity of saplings in tropical Atlantic forest.*
- 2018–2019 Hannah Nikole Almonte (senior thesis). *Leaf traits across a rainfall gradient in tropical forest, Panama.*
- 2019–2020 Jasmine Liu (senior thesis). *Effects of juvenile leaf color, extra-floral nectaries, and seedling neighbors on leaf-level herbivory in Yasuní, Ecuador.*



- 2017–2019 Jasmine Liu (undergraduate research). *Distribution of extrafloral nectaries along a rainfall gradient in tropical forest, Panama.*
- 2017–2018 Lexis Anderson (senior thesis). *Influence of extrafloral nectaries on survival and growth of tropical forest tree seedlings.*
- 2015–2017 Elizabeth Tokarz (senior thesis). *Topographic niche partitioning of a diverse tropical herbaceous flora.*
- 2014–2015 Megan Sullivan. *Leaf size and shape in the cerrado vegetation of Brazil.* Thesis committee: *Reproductive success in a tropical tree species, Virola surinamensis.*
- 2013–2014 Shannon Hibbard. *Shadows of mega-faunal seed dispersal mechanisms in western Amazonian forests.*
- 2013–2014 Edward Harper. *Spatial variation in leaf shape of the cerrado vegetation of Brazil.*
- 2013–2014 John Linn. *Spatial variation in drip-tip incidence of the cerrado vegetation of Brazil.*
- 2012–2014 Andrew Muehleisen (Honors thesis). *Influence of extrafloral nectaries on survival and growth of tropical forest trees.*
- 2011–2013 Laura Mason. *Invasion and monodominance in the Neotropics.* Thesis committee member, 2014.
- 2011–2012 John Boudouris. *Diversity and distribution of extrafloral nectaries in the savanna vegetation of South America.*

#### *Tropical Resources Institute*

- 2019 TRI Fellowships: 29 applicants, 28 awards.
- 2018 *Tropical Resources Bulletin* vol. 37: Six manuscripts edited and typeset; 3 work-study students.
- 2018 TRI Fellowships: 39 applicants, 35 awards.
- 2017 *Tropical Resources Bulletin* vol. 36: Eight manuscripts edited and typeset; 3 work-study students.
- 2017 TRI Fellowships: 30 applicants, 24 awards.
- 2017 Sally Goodman, *Increasing access to the tropical literature: Publications from Yasuni National Park.*
- 2017 Erika Engstrom, *Review of research in the Myristicaceae: Towards an NSF RCN.*
- 2017 Sarah Omusala, *Incidence of extra-floral nectaries in the tree flora of Kenya.*
- 2017 FES-CIFOR 2 incoming MESC students (Bruce Mecca & Caroline Tasirin).
- 2016 IUCN Annual Meeting, Hawai'i Sept. 2016.
- 2016 *Tropical Resources Bulletin* vol. 35: Six manuscripts edited and typeset; 1 work-study student.
- 2016 TRI Fellowships: 23 applicants, 19 awards.

2015 *Tropical Resources Bulletin* vol. 34: Eleven manuscripts edited and typeset; 3 work-study students.  
2015–2016 TRI Fellowships: 34 applicants, 22 funded (incl 1 Sri Lanka Fellow).  
2015 TRI Fellows Spring Symposium: 25 presentations.

*Cullman joint PhD Program with New York Botanical Garden*

2020 Current Fellows: Kyra Prats, Megan Sullivan, Harikrishnan Radhamoni, Eli Ward, David Woodbury, Akshay Surendra, Aleca Borsuk.  
2019 Current Fellows: Meredith Martin, Kyra Prats, Megan Sullivan, Harikrishnan Radhamoni, Eli Ward.  
2018 Current Fellows: Meredith Martin, Lily Zeng, Kyra Prats, Megan Sullivan, Harikrishnan Radhamoni, Alder Keleman (postdoc).  
2017 Current Fellows: Meredith Martin, Lily Zeng, Kyra Prats.  
2016 Current Fellows: Meredith Martin, Lily Zeng, Kyra Prats.

*International Society for Tropical Foresters*

2020 ISTF Annual Meeting, January 2020.  
2019 ISTF Annual Meeting, January 2019.  
2018 ISTF Annual Meeting, January 2018.  
2018 ISTF Annual Meeting, January 2017.  
2016 ISTF Annual Meeting, January 2016.

Service to the  
Profession

*Editorial boards*

2018– Editorial board: *Plant Ecology & Diversity*.  
2016– British Ecological Society Review College

*Reviewer*

*American Journal of Botany, American Naturalist, Annals of Applied Biology, Journal of Applied Research on Medicinal and Aromatic Plants, Annals of Botany, Austral Ecology, Biological Conservation, Biotropica, Botanical Journal of the Linnean Society, Botanical Studies, Conservation Biology, Diversity, Ecography, Ecological Complexity, Journal of Ecology, Ecology, Ecology Data Paper, Ecology & Evolution, Ecology Letters, Environmental Conservation, Evolution, Forest Ecology & Management, Journal of Forestry Research, Forests, Functional Ecology, Global Change Biology, Methods in Ecology & Evolution, Oecologia, Oikos, Pest Management Science, Plant Ecology, Plant Ecology & Diversity, Plant & Soil, PLoS One, Proceedings of the Royal Society, B, Revista de Biología Tropical, Taxon, Tropical Conservation Science, Journal of Tropical Ecology, Journal of Vegetation Science.*

*Service*

- 2019 Committees: Yale Forest Forum, Environmental Data Science, EQUID.  
2019 Reviewed: 12 manuscripts; 1 NSF ad hoc.  
2019 F&ES Research Day: Chair (2 sessions) and judge (1 session).  
2019 British Ecological Society Review College: 9 grant proposals.
- 2018 Online resource for learning R: [www.intro2r.info](http://www.intro2r.info)  
2018– F&ES Environmental Data Science committee.  
2018– Editorial [board](#): *Plant Ecology & Diversity*.  
2018 Reviewed: 9 manuscripts, 5 proposals.  
2018 F&ES Research Day organising committee.
- 2017 Reviewed: 12 manuscripts, 8 proposals.  
2017– F&ES Alternative Pathways to Impact committee.  
2017 Reviewer: NSF, British Ecological Society, and Programa Bosques Andinos grants.  
2017 Panel: New faculty orientation: Teaching Panel. Yale University, August 2017.
- 2016 Reviewed: 11 manuscripts, 7 proposals.  
2016 Reviewer: British Ecological Society, and Programa Bosques Andinos grants.
- 2015 Reviewed: 13 manuscripts.  
2015 Judge, reviewer, mentor, Student Conference on Conservation Science, New York, NY, USA.
- 2014 Reviewed: 14 manuscripts.  
2014 Judge, mentor, Student Conference on Conservation Science, New York, NY, USA.  
2014 Judge, Natural & Mathematical Sciences Undergraduate Research Forum, Denman Undergraduate Research Forum.
- 2013–2014 EEOB Communications Committee.  
2013 Reviewer, NSF CAREER grant, NSF ad hoc.  
2013–2016 Committee, Tropical Ecology SIG, British Ecological Society.  
2013 Judge, OSU [Denman](#) Undergraduate Research Forum.  
2012–2013 EEOB Graduate Admissions Committee.  
2009–2013 Secretary, [Tropical Ecology Special Interest Group](#), British Ecological Society.  
2012 Judge, OSU [Denman](#) and [Natural & Mathematical Sciences](#) Undergraduate Research Fora.  
2012 Reviewer, NSF CAREER grant.  
2012 Head Guest-Editor (with Pierre-Michel Forget & Sabrina Russo), *Tropical Conservation Science*, Special Issue on the Myristicaceae.

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- 2009 Session organizer, British Ecological Society Annual Meeting Thematic Topic: *Life History and Functional Trait Variation in Tropical Systems*. University of Hertfordshire, UK.
- 2008 Session organiser, British Ecological Society Annual Meeting Thematic Topic: *Phylogeography and Biogeography*. University of Leeds, UK.
- 2008 Co-organiser and DJ, BES Tropical Ecology Group Early Career Researcher meeting, University of Oxford.
- 2007 Co-organiser, BES Tropical Ecology Group Early Career Researcher meeting, University of Leeds, UK.
- 2006–2009 Committee member, British Ecological Society Tropical Ecology Special Interest Group.
- 2002–2005 Chair and organiser, regular presentations by visiting researchers and long-term scientists at Yasuní Scientific Research Station.