Simon A. Queenborough

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Appointments

The Ohio State University
2011–Present. Senior Research Associate

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.

19. **Simon A. Queenborough**, Margaret R. Metz, Renato Valencia and S. Joe Wright. Demographic consequences of chromatic leaf defence in tropical tree communities - do red young leaves increase growth and survival? *Annals of Botany*. in press. doi: 10.1093/aob/mct144

18. Kellen Callinger*, Peter S. Curtis & **Simon A. Queenborough**. Herbarium specimens reveal the footprint of climate change on flowering trends across north-central North America. *Ecology Letters*. doi: 10.1111/ele.12135

17. Ira R. Cooke, Elizabeth H. Mattison, Eric Audsley, Alison Bailey, Rob F.P. Freckleton, Anil R. Graves, Joe Morris, **Simon A. Queenborough**, Daniel L. Sanders, Gavin Sirawarden, Phil Trawick, Andrew R. Watkinson & William J. Sutherland. Empirical test of an agricultural landscape model: the importance of farmer preference for risk-aversion and crop complexity. *SAGE Open*, in press. doi: 10.1177/2158244013486491

16. Ana G. Jimenez, James M. Harper, **Simon A. Queenborough** & Joseph B. Williams. 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

15. **Simon A. Queenborough**, Aelys Humphreys* & Renato Valencia. Sex specific flowering patterns in the understorey rain forest tree *Iryanthera hostmannii* (Myristicaceae). *Tropical Conservation Science*, in press.

14. **Simon A. Queenborough** & Cristina Porras**. Expanding coverage of plant trait databases – A comparison of specific leaf area derived from fresh and dried leaves. *Plant Ecology & Diversity*, in press. doi: 10.1080/17550874.2013.777483

13. Jie Gao, **Simon A. Queenborough** & J. P. Chai. 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. Peter S. Curtis & **Simon A. Queenborough** 2012. Commentary: Raising the standards for ecological meta-analysis. *New Phytologist* 195, 279–281. doi: 10.1111/j.1469-8137.2012.04207.x

11. Xuejiao Bai*, **Simon A. Queenborough**, 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. **Simon A. Queenborough**, Margaret R. Metz, Thorsten Wiegand and Renato Valencia. 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. **Simon A. Queenborough**, Kirsty M. Burnet*, William J. Sutherland, Andrew R. Watkinson & Rob F. P. Freckleton. 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. Rob F. P. Freckleton, William J. Sutherland, Andrew J. Watkinson & **Simon A. Queenborough**. 2011. Density structured models for plant population dynamics. *American Naturalist* 177, 1–17. doi: 10.1086/657621

7. Steven M. Vamosi & **Simon A. Queenborough**. 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. **Simon A. Queenborough**, David F.R.P. Burslem, Nancy C. Garwood & Renato Valencia. 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. **Simon A. Queenborough**, Susan J. Mazer, Steven M. Vamosi, Nancy C. Garwood, Renato Valencia & Rob P. Freckleton. 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. Ira R. Cooke, **Simon A. Queenborough**, Elizabeth H.A. Mattison, Alison P. Bailey, Daniel L. Sandars, Anil. R. Graves, J. Morris, Philip W. Atkinson, Paul Trawick, Rob P. Freckleton, Andrew R. Watkinson & William J. Sutherland. 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. **Simon A. Queenborough**, David F.R.P. Burslem, Nancy C. Garwood & Renato Valencia. 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. **Simon A. Queenborough**, David F.R.P. Burslem, Nancy C. Garwood & Renato Valencia. 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. **Simon A. Queenborough**, David F.R.P. Burslem, Nancy C. Garwood & Renato Valencia. 2007. Habitat niche partitioning by 16 species of Myristicaceae in Amazonian Ecuador. *Plant Ecology* 192, 193–207. doi: 10.1007/s11258-007-9328-3

In review

4. Tatsuyo Amano, Rob F.P. Freckleton, **Simon A. Queenborough**, Simon W. Doxford, Richard J. Smithers, Tim H. Sparks & William J. Sutherland. Phenological responses to warming determine changes in niche over space and time. *Ecology Letters*.

3. Jennifer K. Hellmann*, J.S. Erikson & **Simon A. Queenborough**. Evaluating macroinvertebrate community shifts in the nexus of freestone and limestone streams. *Ecological Complexity*.

2. John Boudouris** & **Simon A. Queenborough**. Diversity and distribution of extra-floral nectaries in the cerrado savanna vegetation of Brazil. *Journal of Biogeography*.

1. Pierre-Michel Forget, **Simon A. Queenborough**, Sandra Ratiarison* & Jordan Karubian. Fruit traits, frugivores and seed removal in the Neotropical nutmeg - a comparison across the Neotropics. *Tropical Conservation Science*.

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)

2013 Center for Life Science Education, The Ohio State University
2012 School of Forestry and Environmental Studies, Yale University.
2012 Ecological Society of America Annual Meeting, Portland, USA. Invited contribution to seedling herbivory symposium.
2010 Department of Evolution, Ecology & Organismal Biology, The Ohio State University.
2009 University of Sheffield, Department of Animal and Plant Sciences, Sheffield, UK.
2008 Association for Tropical Biology and Conservation Annual Meeting, Surinam.
2007 Pontificia Universidad Católica del Ecuador, Quito, Department of Biology.
2007 University of Arkansas, Department of Ecology and Evolution.
2002–2007 Various presentations to academics, oil company executives and student groups visiting Yasuní Scientific Research Station, Ecuador.

Conference Presentations (Since 2005)

2012 EcoSummit (Columbus, USA), The British Ecological Society Annual Meeting (University of Birmingham, UK), Systems Ecology workshop (University of Birmingham, UK).
2012 Denman Undergraduate Research Forum (w/ John Boudouris); Natural and Mathematical Sciences Undergraduate Research Forum (w/ Andrew Muehleisen).
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

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

2013 Lecturer, EEOB 8896: graduate seminar in temperate forest ecology and data analysis (Spring, 14 students).
2013 Honors thesis advisor: Andrew Muehleisen, *Influence of extrafloral nectaries on survival and growth of tropical forest trees*. Supervisor, undergraduate research assistant: Laura Mason, *Invasion and monodominance in the Neotropics*. Advisor, undergraduate volunteer research assistants: Shannon Hibbard, *Spatial variation in leaf size of the cerrado vegetation of Brazil*; Edward Harper, *Spatial variation in leaf shape of the cerrado vegetation of Brazil*.
2012 Advisor, graduate students: Juan Carlos Peñagos Zuluaga and Raleigh Ricart (2012-present).
2012 Statistical Advisor, OSU graduate students Jennifer Hellman, Kellen Callinger, Hsiaochi Chang, and Clara Cooper-Mullin; post-doc Ana Jimenez.
2012 Lecturer, EEOB 1114: Form, Function & Ecology. Undergraduate level (Autumn, 176 students).
2012 Lecturer, EEOB 881: Introduction to R for Biologists. Graduate level (Spring, 21 students).
2012 Lecturer, Tropical Ecology Field course. Panama. Spring break. Undergraduate level (Spring, 15 students).
2012 Advisor, undergraduate research: Andrew Muehleisen *Influence of extrafloral nectaries on survival and growth of tropical forest trees*. Supervisor, undergraduate research assistant: Laura Mason, various literature searches and databasing.
2011 Advisor, undergraduate research project: John Boudouris *Diversity and distribution of extrafloral nectaries in the savanna vegetation of South America*. Supervisor, undergraduate research assistant: Laura Mason, various literature searches and databasing.
2010 Co-advisor: James Smith, University of York, UK *Change in liana incidence in Yasuní National Park*; Anton Flügge, University College, London, UK *Sex*

ratios in the genus Cecropia*, dioecious Neotropical pioneer trees*; and Xuejiao Bai, Chinese graduate student, Chinese Academy of Sciences.

2010 Lecturer, Analysis of density dependent processes using forest plot data. Statistical computing course in R. Chinese Academy of Sciences, Beijing, China. 40 students, 2 faculty.

2010 Lecturer, R statistical computing course, Centre for Ecological Science, Indian Institute of Science, Bangalore, India. 30 students and 2 faculty.

2010 Lecturer, R statistical computing course, Pontificia Universidad Católica del Ecuador, Quito, Ecuador Designed and taught one-week intensive programming course to 20 graduate students and 2 faculty

2008 Co-leader, University of Sheffield undergraduate field trip to Danum Valley, Borneo Two-week field course: lectures, field excursions, project supervision

2006–2010 Mentor, University of Sheffield PhD student. Supervisor, University of Sheffield undergraduate field work and projects.

2002–2005 Resident Scientist, Yasuní Scientific Research Station, Ecuador. Supervised MSc and undergraduate students and volunteers, and led guided tours of herbarium and forest

Service to the Profession

2012–2013 EEOB Graduate Admissions Commitee.

2013–present Committee, Tropical Ecology SIG, British Ecological Society.

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.

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.

Reviewer: *American Journal of Botany*, *Annals of Applied Biology*, *Annals of Botany*, *Biotropica*, *Botanical Studies*, *Ecography*, *Journal of Ecology*, *Ecology*, *Ecology Letters*, *Environmental Conservation*, *Evolution*, *Forest Ecology & Management*, *Methods in Ecology & Evolution*, *Oecologia*, *Plant Ecology*, *Plant Ecology & Diversity*, *Proceedings of the Royal Society, B*, *Revista de Biología Tropical*, *Tropical Conservation Science*, *Journal of Tropical Ecology*, *Journal of Vegetation Science*.