

# 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.

Ana G. Jimenez, James M. Harper, **Simon A. Queenborough** & Joe 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* in press.

**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.

**Simon A. Queenborough** & Cristina Porras\*\*. Expanding coverage of plant trait databases – A comparison of specific leaf area from fresh and dried leaves. *Plant Ecology & Diversity*, in press.

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.

- Peter S. Curtis & **Simon A. Queenborough** 2012. [Commentary: Raising the standards for ecological meta-analysis](#). *New Phytologist* 195, 279–281.
- 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.
- 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.
- 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
- 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.
- Simon A. Queenborough** & Liza S. Comita. 2011. Should ecological science be ethical? *Union Seminary Quarterly Review* 63, 18–25
- 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.
- 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.
- 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.
- 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.
- 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
- 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.

**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.

*In review*

**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*.

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*.

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*.

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

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*.

John Boudouris\*\* & **Simon A. Queenborough**. Diversity and distribution of extrafloral nectaries in the cerrado savanna vegetation of Brazil. *Journal of Biogeography*.

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*

**Simon A. Queenborough** 2012. [The habits of successful ecologists: How to write right, right!?](#) *Bulletin of the British Ecological Society* 44 (2), 36–38.

**Simon A. Queenborough** 2011. [The habits of successful ecologists: time management](#). *Bulletin of the British Ecological Society* 42 (3) 34–37.

**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.

- 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.
- 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.
- 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.
- 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.
- 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, Hsiaoichi 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
- 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 Yasuni Scientific Research Station.
- Reviewer: *American Journal of Botany*, *Biotropica*, *Ecography*, *Journal of Ecology*, *Environmental Conservation*, *Evolution*, *Forest Ecology & Management*, *Methods in Ecology & Evolution*, *Oecologia*, *Plant Ecology*, *Plant Ecology & Diversity*, *Tropical Conservation Science*, *Journal of Tropical Ecology*, *Journal of Vegetation Science*.