

Publications

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Peer-reviewed research articles

* equal author contributions

‡ publication recommended by Faculty of 1000 Biology

2015

- I. Khaliq, **S. A. Fritz**, R. Prinzing, M. Pfenninger, K. Böhning-Gaese, C. Hof (2015). Global variation in thermal physiology of birds and mammals: evidence for phylogenetic niche conservatism only in the tropics. *Journal of Biogeography* 42: 2187-2196. [Abstract](#)
- M. J. Lawes, D. O. Fisher, C. N. Johnson, S. P. Blomberg, A. S. K. Frank, **S. A. Fritz**, H. McCallum, J. VanDerWal, B. N. Abbott, S. Legge, M. Letnic, C. R. Thomas, N. Thurgate, A. Fisher, I. J. Gordon, A. Kutt (2015) Correlates of recent declines of rodents in northern and southern Australia: habitat structure is critical. *PLoS One* 10: e0130626. [Article](#)
- P. Weigelt, W. D. Kissling, Y. Kisel, **S. A. Fritz**, D. N. Karger, M. Kessler, S. Lehtonen, J.-C. Svenning, H. Kreft (2015). Global patterns and drivers of phylogenetic structure in island floras. *Scientific reports* 5: 12213. [Article](#)

2014

- D. M. Dehling, **S. A. Fritz**, T. Töpfer, M. Päckert, P. Estler, K. Böhning-Gaese, M. Schleuning (2014) Functional and phylogenetic diversity and assemblage structure of frugivorous birds along an elevational gradient in the tropical Andes. *Ecography* 37: 1047-1055. [Abstract](#)
- D. O. Fisher, C. N. Johnson, M. J. Lawes, **S. A. Fritz**, H. McCallum, S. P. Blomberg, J. VanDerWal, B. Abbott, A. Frank, S. Legge, M. Letnic, C. R. Thomas, A. Fisher, I. J. Gordon, A. Kutt (2014) The current decline of tropical marsupials in Australia: is history repeating? *Global Ecology and Biogeography* 23: 181-190. [Abstract](#) [Press release](#) (in English only)
- M. Schleuning, L. Ingmann, R. Strauß, **S. A. Fritz**, B. Dalsgaard, D. M. Dehling, M. Plein, F. Saavedra, B. Sandel, J.-C. Svenning, K. Böhning-Gaese, C. F. Dormann (2014) Ecological, historical and evolutionary determinants of modularity in weighted seed-dispersal networks. *Ecology Letters* 17: 454-463. [Abstract](#)

2013

- S. A. Fritz***, J. Schnitzler*, J. T. Eronen*, C. Hof*, K. Böhning-Gaese*, C. H. Graham* (2013) Diversity in time and space: wanted dead and alive. *Trends in Ecology and Evolution* 28: 509-516. [Abstract](#) [Press release](#) (English) [Press release](#) (German)

B. G. Holt*, J.-P. Lessard*, M. K. Borregaard, **S. A. Fritz**, M. B. Araújo, D. Dimitrov, P.-H. Fabre, C. H. Graham, G. R. Graves, K. A. Jønsson, D. Nogués-Bravo, Z. Wang, R. J. Whittaker, J. Fjeldså, C. Rahbek (2013) An update of Wallace's zoogeographic regions of the world. *Science* 339: 74-78. [Abstract](#) [Press release](#) (English) [Press release](#) (German)

2012

J. Beck, L. Ballesteros-Mejia, C. M. Buchmann, J. Dengler, **S. A. Fritz**, B. Gruber, C. Hof, F. Jansen, S. Knapp, H. Kreft, A.-K. Schneider, M. Winter, C. F. Dormann (2012) What's on the horizon for macroecology? *Ecography* 35: 673-683. [Abstract](#)

S. A. Fritz*, K. A. Jønsson*, J. Fjeldså, C. Rahbek (2012) Diversification and biogeographic patterns in island radiations of passerine birds. *Evolution* 66: 179-190. [Abstract](#) [Press release](#) (in German only)

S. A. Fritz, C. Rahbek (2012) Global patterns of amphibian phylogenetic diversity. *Journal of Biogeography* 39: 1373-1382. [Abstract](#)

K. A. Jønsson, P.-H. Fabre, **S. A. Fritz**, R. S. Etienne, R. E. Ricklefs, T. B. Jørgensen, J. Fjeldså, C. Rahbek, P. G. P. Ericson, F. Woog, E. Pasquet, M. Irestedt (2012) Ecological and evolutionary determinants for the adaptive radiation of the Madagascan vangas. *Proceedings of the National Academy of Sciences of the United States of America* 109: 6620-6625. [Abstract](#) [Press release](#) (English) [Press release](#) (German)

2011

M. Á. Olalla-Tárraga*, L. McInnes*, L. M. Bini, J. A. F. Diniz-Filho, **S. A. Fritz**, B. A. Hawkins, J. Hortal, C. D. L. Orme, C. Rahbek, M. Á. Rodríguez, A. Purvis (2011) Climatic niche conservatism and the evolutionary dynamics in species range boundaries: global congruence across mammals and amphibians. *Journal of Biogeography* 38: 2237-2247. [Abstract](#)

A. Purvis, **S. A. Fritz**, J. Rodríguez, P. H. Harvey, R. Grenyer (2011) The shape of mammalian phylogeny: patterns, processes and scales. *Philosophical Transactions of the Royal Society B: Biological Sciences* 366: 2462-2477. [Abstract](#)

S. T. Turvey, **S. A. Fritz** (2011) The ghosts of mammals past: biological and geographical patterns of global mammalian extinction across the Holocene. *Philosophical Transactions of the Royal Society B: Biological Sciences* 366: 2564-2576. [Abstract](#)

2010

S. A. Fritz, A. Purvis (2010) Selectivity in mammalian extinction risk and threat types: a new measure of phylogenetic signal strength in binary traits. *Conservation Biology* 24: 1042-1051. [Abstract](#)

S. A. Fritz, A. Purvis (2010) Phylogenetic diversity does not capture body size variation at risk in the world's mammals. *Proceedings of the Royal Society B: Biological Sciences* 277: 2435-2441. [Abstract](#)

C. Pecher, **S. A. Fritz**, L. Marini, D. Fontaneto, M. Pautasso (2010) Scale-dependence of the correlation between human population and the species richness of stream macro-invertebrates. *Basic and Applied Ecology* 11: 272-280. [Abstract](#)

2009 and 2008

- J. T. Davies, **S. A. Fritz**, R. Grenyer, C. D. L. Orme, J. Bielby, O. R. P. Bininda-Emonds, M. Cardillo, K. E. Jones, J. L. Gittleman, G. M. Mace, A. Purvis (2008) Phylogenetic trees and the future of mammalian biodiversity. *Proceedings of the National Academy of Sciences of the United States of America* 105: 11556-11563. [Abstract](#)
- ‡ **S. A. Fritz**, O. R. P. Bininda-Emonds, A. Purvis (2009) Geographical variation in predictors of mammalian extinction risk: big is bad, but only in the tropics. *Ecology Letters* 12: 538-549. [Abstract](#)
- K. E. Jones, J. Bielby, M. Cardillo, **S. A. Fritz**, J. O'Dell, C. D. L. Orme, K. Safi, W. Sechrest, E. H. Boakes, C. Carbone, C. Connolly, M. J. Cutts, J. K. Foster, R. Grenyer, M. Habib, C. A. Plaster, S. A. Price, E. A. Rigby, J. Rist, A. Teacher, O. R. P. Bininda-Emonds, J. L. Gittleman, G. M. Mace, A. Purvis (2009) PanTHERIA: A species-level database of life-history, ecology and geography of extant and recently extinct mammals. *Ecology* 90: 2648. [Abstract](#)

Other peer-reviewed publications

- D. O. Fisher, C. N. Johnson, M. J. Lawes, **S. A. Fritz**, H. McCallum, S. P. Blomberg, J. VanDerWal, B. Abbott, A. Frank, S. Legge, M. Letnic, C. R. Thomas, A. Fisher, I. J. Gordon, A. Kutt (2015) Response to commentary by Woinarski (Critical-weight-range marsupials in northern Australia are declining: a commentary on Fisher et al. (2014) 'The current decline of tropical marsupials in Australia: is history repeating?'). *Global Ecology and Biogeography* 24: 123-125. [Response](#)
- B. G. Holt[†], J.-P. Lessard[†], M. K. Borregaard, **S. A. Fritz**, M. B. Araújo, D. Dimitrov, P.-H. Fabre, C. H. Graham, G. R. Graves, K. A. Jønsson, D. Nogués-Bravo, Z. Wang, R. J. Whittaker, J. Fjeldså, C. Rahbek (2013) Response to comment on "An update of Wallace's zoogeographic regions of the world". *Science* 341: 343. [Response](#)

Publications without peer review

- C. Meyer, W. Jetz, R. P. Guralnick, **S. A. Fritz**, H. Kreft (2015). Global drivers of species variation in mobilized point-occurrence information. *PeerJ PrePrints* e1493. [Manuscript](#)
- D. Orme, R. Freckleton, G. Thomas, T. Petzoldt, **S. Fritz**, N. Isaac, W. Pearse (2012) caper: comparative analyses of phylogenetics and evolution in R. *R package version 0.5*. <http://CRAN.R-project.org/package=caper>

Conference abstracts

- Annual conference of the Ecological Society of Germany, Austria and Switzerland (Gesellschaft für Ökologie). September 2013, Potsdam; September 2010, Gießen.
- Annual conference of the German Society for Herpetology (DGHT). September 2009, Karlsruhe.
- Annual meeting of the specialist group for macroecology of the Ecological Society of Germany, Austria and Switzerland (Gesellschaft für Ökologie, GfÖ). March 2014, Halle; March 2013, Göttingen; February 2011, Basel; March 2010, Uder.
- Biennial conference of the International Biogeography Society (IBS). 7th conference, January 2015, Bayreuth, Germany; 6th conference, January 2013, Miami, USA; 5th conference, January 2011, Herakleion, Crete.
- EEF congress (European Ecological Federation). 12th congress, September 2011, Ávila, Spain.
- EU Macro 2015 - joint meeting for macroecology of the British Ecological Society (BES), the Ecological Society of Germany, Austria and Switzerland (Gesellschaft für Ökologie, GfÖ), and the Center for Macroecology, Evolution and Climate (CMEC). Invited keynote speaker, June 2015, Copenhagen, Denmark.
- Evolution -joint congress on evolutionary biology of the American Society of Naturalists (ASN), the Canadian Society for Ecology and Evolution (CSEE), the European Society for Evolutionary Biology (ESEB), the Society for the Study of Evolution (SSE), and the Society of Systematic Biologists (SSB). July 2012, Ottawa, Canada.
- Evolution - joint annual meeting of the American Society of Naturalists (ASN), the Society for the Study of Evolution (SSE), and the Society of Systematic Biologists (SSB). June 2010, Portland, USA; June 2008, Minneapolis, USA.
- Student Conference for Conservation Biology. March 2008, Cambridge, UK.
- SVP (Society of Vertebrate Paleontology) 74th annual meeting. Invited symposium speaker, November 2014, Berlin.