

Publications

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27 peer-reviewed research articles published, Google Scholar h index 21 (>3500 citations)
Profiles: [GoogleScholar](#) - [ResearcherID](#) - [ORCID](#) - [Publons](#)

Peer-reviewed research articles by year

* equal author contributions

‡ publication recommended by Faculty of 1000 Biology

2018

M. A. Tucker, K. Böhning-Gaese, W. F. Fagan, J. M. Fryxell, B. Van Moorter, S. C. Alberts, A. H. Ali, A. M. Allen, N. Attias, T. Avgar, H. Bartlam-Brooks, B. Bayarbaatar, J. L. Belant, A. Bertassoni, D. Beyer, L. Bidner, F. M. van Beest, S. Blake, N. Blaum, C. Bracis, D. Brown, P. J. N. de Bruyn, F. Cagnacci, J. M. Calabrese, C. Camilo-Alves, S. Chamaillé-Jammes, A. Chiaradia, S. C. Davidson, T. Dennis, S. DeStefano, D. Diefenbach, I. Douglas-Hamilton, J. Fennessy, C. Fichtel, W. Fiedler, C. Fischer, I. Fischhoff, C. H. Fleming, A. T. Ford, **S. A. Fritz**, B. Gehr, J. R. Goheen, E. Gurarie, M. Hebblewhite, M. Heurich, A. J. M. Hewison, C. Hof, E. Hurme, L. A. Isbell, R. Janssen, F. Jeltsch, P. Kaczensky, A. Kane, P. M. Kappeler, M. Kauffman, R. Kays, D. Kimuyu, F. Koch, B. Kranstauber, S. LaPoint, P. Leimgruber, J. D. C. Linnell, P. López-López, A. C. Markham, J. Mattisson, E. P. Medici, U. Mellone, E. Merrill, G. de Miranda Mourão, R. G. Morato, N. Morellet, T. A. Morrison, S. L. Díaz-Muñoz, A. Mysterud, D. Nandintsetseg, R. Nathan, A. Niamir, J. Odden, R. B. O'Hara, L. G. R. Oliveira-Santos, K. A. Olson, B. D. Patterson, R. Cunha de Paula, L. Pedrotti, B. Reineking, M. Rimmler, T. L. Rogers, C. M. Rolandsen, C. S. Rosenberry, D. I. Rubenstein, K. Safi, S. Saïd, N. Sapir, H. Sawyer, N. M. Schmidt, N. Selva, A. Sergiel, E. Shiilegdamba, J. P. Silva, N. Singh, E. J. Solberg, O. Spiegel, O. Strand, S. Sundaresan, W. Ullmann, U. Voigt, J. Wall, D. Wattles, M. Wikelski, C. C. Wilmers, J. W. Wilson, G. Wittemyer, F. Zięba, T. Zwijacz-Kozica, T. Mueller (2018). Moving in the Anthropocene: Global reductions in terrestrial mammalian movements. *Science* 359: 466-469. [Abstract](#) [Press release](#) (English) [Press release](#) (German)

2017

- A. Eyres, K. Böhning-Gaese, **S. A. Fritz** (2017). Quantification of climatic niches in birds: adding the temporal dimension. *Journal of Avian Biology* 48: 1517-1531. [Abstract](#)
- S. Huang, J. T. Eronen, C. M. Janis, J. J. Saarinen, D. Silvestro, **S. A. Fritz** (2017). Mammal body size evolution in North America and Europe over 20 Myr: similar trends generated by different processes. *Proceedings of the Royal Society B: Biological Sciences* 284: 20162361. [Abstract](#) [Press release](#) (English) [Press release](#) (German)
- C. M. Tucker, M. W. Cadotte, S. B. Carvalho, T. J. Davies, S. Ferrier, **S. A. Fritz**, R. Grenyer, M. R. Helmus, L. S. Jin, A. O. Mooers, S. Pavoine, O. Purschke, D. W. Redding, D. F. Rosauer, M. Winter, F. Mazel (2017). Unifying phylogenetic metrics for conservation, community ecology and macroecology. *Biological Reviews* 92: 698-715. [Article](#)

2016

- S. A. Fritz, J. T. Eronen, J. Schnitzler, C. Hof, C. M. Janis, A. Mulch, K. Böhning-Gaese, C. H. Graham (2016). Twenty-million-year relationship between mammalian diversity and primary productivity. *Proceedings of the National Academy of Sciences of the United States of America* 113: 10908-10913. [Abstract](#) [Press release](#) (English) [Press release](#) (German)
- C. Meyer, W. Jetz, R. P. Guralnick, S. A. Fritz, H. Kreft (2016). Range geometry and socio-economics dominate species-level biases in occurrence information. *Global Ecology and Biogeography* 25: 1181-1193. [Abstract](#)

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](#) (English)
- 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)

2008 - 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](#)
- 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](#)
- S. A. Fritz***, K. A. Jönsson*, 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**, 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](#)
- S. A. Fritz**, C. Rahbek (2012) Global patterns of amphibian phylogenetic diversity. *Journal of Biogeography* 39: 1373-1382. [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](#)
- K. A. Jönsson, 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)
- 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](#)
- 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](#)
- 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](#)

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](#)
- C. Hof, **S. A. Fritz**, R. Prinzinger, M. Pfenninger, K. Böhning-Gaese, I. Khaliq (2017) Phylogenetic signals in thermal traits remain stronger in the tropics if we can believe published physiological data. A reply to McKechnie et al., "Data quality problems undermine analyses of endotherm upper critical temperatures". *Journal of Biogeography* 44: 2427-2431. [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

- F. Mazel, C. M. Tucker, M. W. Cadotte, S. B. Carvalho, T. J. Davies, **S. A. Fritz**, R. Grenyer, M. R. Helmus, A. O. Mooers, S. Pavoine, O. Purschke, D. F. Rosauer, M. Winter (2016) The forest, the trees, and the phylo-diversity jungle. *bioRxiv* July 15, 2016. [Article](#)
- 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, GfÖ). 46th conference, keynote speaker, September 2016, Marburg; 45th conference, September 2015, Göttingen; 43rd conference, September 2013, Potsdam; 40th conference, September 2010, Gießen.
- Annual conference of the German Society for Herpetology (Deutsche Gesellschaft für Herpetologie und Terrarienkunde, DGHT). September 2009, Karlsruhe.
- Annual meeting of the German Zoological Society (Deutsche Zoologische Gesellschaft, DZG). 110th annual meeting, keynote speaker, September 2017, Bielefeld, Germany.
- Annual meeting of the Society of Vertebrate Paleontology (SVP). 74th annual meeting, invited symposium speaker, November 2014, Berlin.
- Annual meeting of the specialist group for macroecology of the Ecological Society of Germany, Austria and Switzerland (Gesellschaft für Ökologie, GfÖ). April 2017, Vienna; March 2016, invited speaker at joint meeting with the special interest group for biogeography (Verband der Geographen an Deutschen Hochschulen, VDGH), Trier; March 2014, Halle; March 2013, Göttingen; March 2012, Frankfurt; February 2011, Basel; March 2010, Uder.

Biennial conference of the International Biogeography Society (IBS). 8th conference, invited symposium speaker, January 2017, Tucson, USA; 7th conference, January 2015, Bayreuth, Germany; 6th conference, symposium speaker, January 2013, Miami, USA; 5th conference, January 2011, Herakleion, Crete.

Ecology Across Borders – joint meeting of the British Ecological Society (BES), Gesellschaft für Ökologie (GfÖ), Netherlands-Flanders Ecological Society (NecoV), and European Ecological Federation (EEF). December 2017, Ghent, Belgium.

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). 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.

General assembly of the International Union of Biological Sciences (IUBS). 32nd assembly, invited symposium speaker, December 2015, Berlin, Germany.

Phylogenetic Symposium. 58th symposium, invited speaker, November 2016, Leipzig, Germany.

Senckenberg conference “Geobiodiversity – an integrative approach expanding Humboldt’s vision”. Symposium speaker, October 2017, Frankfurt, Germany.

Student Conference for Conservation Biology. March 2008, Cambridge, UK.