

Publications

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33 peer-reviewed primary research articles published

Google Scholar h index 23 (>4800 citations); Web of Science h index 19 (>1900 citations)

Profiles: [GoogleScholar](#) - [ResearcherID](#) - [OrcID](#) - [Publons](#)

Peer-reviewed research articles by year

* equal author contributions

‡ publication recommended by Faculty of 1000 Biology

2019

- D. M. Hanz, K. Böhning-Gaese, S. W. Ferger, **S. A. Fritz**, E. L. Neuschulz, M. Quitián, V. Santillán, T. Töpfer, M. Schleuning (2019) Functional and phylogenetic diversity of bird assemblages are filtered by different biotic factors on tropical mountains. *Journal of Biogeography* 46: 291-303. [Abstract](#)
- M. Pontarp, L. Bunnefeld, J. Sarmiento Cabral, R. S. Etienne, **S. A. Fritz**, R. Gillespie, C. H. Graham, O. Hagen, F. Hartig, S. Huang, R. Jansson, O. Maliet, T. Münkemüller, L. Pellissier, T. F. Rangel, D. Storch, T. Wiegand, A. H. Hurlbert (2019) The latitudinal diversity gradient: novel understanding through mechanistic eco-evolutionary models. *Trends in Ecology and Evolution* 34: 211-223. [Abstract](#)

2018

- A. Antonelli, W. D. Kissling, S. G. A. Flantua, M. A. Bermúdez, A. Mulch, A. N. Muellner-Riehl, H. Kreft, H. P. Linder, C. Badgley, J. Fjeldså, **S. A. Fritz**, C. Rahbek, F. Herman, H. Hooghiemstra, C. Hoorn (2018) Geological and climatic influences on mountain biodiversity. *Nature Geoscience* 11: 718-725. [Abstract](#) [Press release](#) (English) [Press release](#) (German)
- A. G. Phillips, T. Töpfer, K. Böhning-Gaese, **S. A. Fritz** (2018) Evidence for distinct evolutionary optima in the morphology of migratory and resident birds. *Journal of Avian Biology* 49: e01807. [Abstract](#)
- A. G. Phillips, T. Töpfer, C. Rahbek, K. Böhning-Gaese, **S. A. Fritz** (2018). Effects of phylogeny and geography on ecomorphological traits in passerine bird clades. *Journal of Biogeography* 45: 2337-2347. [Abstract](#)
- W. D. Pearse, A. M. Barbosa, **S. A. Fritz**, S. A. Keith, L. J. Harmon, J. Harte, D. Silvestro, X. Xiao, T. J. Davies (2018). Building up biogeography: pattern to process. *Journal of Biogeography* 45: 1223-1230. [Abstract](#)

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. Chamailé-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](#)

 2008 - 2013

- 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. 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**, 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](#)

- 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. Jönsson, 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)
- 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. Prinzing, 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

S. Fritz, J. Krohmer, K. Böhning-Gaese (2018) Alexander von Humboldt hätte sich gefreut – Internationale Senckenberg-Konferenz 2017: Geobiodiversität als integrativer Forschungsansatz. *Natur Forschung Museum* 148 (01-03 2018): 26-27.

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>