

Curriculum Vitae

Dr. Susanne Fritz
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Current position

Emmy Noether research group leader at the Senckenberg Biodiversity and Climate Research Centre (BiK-F) & Goethe-University Frankfurt, since July 2014

Employment history and education

Apr 2011 - June 2014	Postdoctoral researcher at the Biodiversity and Climate Research Centre (BiK-F) & Senckenberg Gesellschaft für Naturforschung, Frankfurt, Germany Principal investigator: Prof. Dr. Katrin Böhning-Gaese
Apr 2009 - Mar 2011	Postdoctoral researcher within the cross-disciplinary Programme of Excellence at the Center for Macroecology, Evolution and Climate, Department of Biology, Copenhagen University, Denmark Principal Investigator: Prof. Dr. Carsten Rahbek
01/08/2009	PhD degree, Imperial College London, UK
Feb 2006 - Mar 2009	Marie Curie Early-Stage Researcher at Imperial College London, UK PhD thesis "Comparative analyses of extinction risk in vertebrates", supervised by Prof. Dr. Andy Purvis and Prof. Dr. Ian Owens
Sept 2005 - Jan 2006	office assistant in the Brazil Centre Baden-Württemberg at the Eberhard Karls University of Tübingen
12/09/2005	Diplom in Biology, Eberhard Karls Universität Tübingen, Germany
Nov 2004 - Aug 2005	Diplom thesis "Predator-induced plasticity in the development of morphological and behavioural characteristics in tadpoles of the neotropical frog species, <i>Hyla minuta</i> and <i>Physalaemus lisei</i> – a case study in the araucaria forest preserve Pró-Mata, Rio Grande do Sul, Brazil", supervised by Prof. Dr. Wolf Engels
Sept 1999 - Sept 2005	student of biology at the Universität Tübingen, Germany including an exchange year at the University of Aberdeen, UK main subject: zoology; additional subjects: palaeontology, molecular cell biology, animal physiology
Aug 1998 - Aug 1999	au-pair in Chesham, UK
June 1998	Abitur (German A Levels)

Grants

2018 – 2023	Leibniz competition 2018 (Leibniz Association) funding for a professorship “Geobiodiversity: assessing the impacts of mountain building and climate change on evolution and ecology of mammals and birds” Principal investigator, P52/2017
2014 – 2018	DFG (German Research Foundation) funding for Emmy Noether research group “Macroevolution of climatic niches in birds” Principal investigator, FR 3246/2-1
2011	DFG (German Research Foundation) funding for 6 th annual meeting of the specialist group for macroecology of the Ecological Society of Germany, Austria and Switzerland (Gesellschaft für Ökologie, GfÖ) Principal investigator, FR 3246/1-1

Participation in international research projects and working groups

Nov 2015 – Jan 2019	Host (together with Prof Katrin Böhning-Gaese) to postdoctoral fellow Dr Shan Huang, Alexander von Humboldt Foundation
Since 2013	sDiv (Synthesis Centre for Biodiversity Sciences) working groups, German Centre for Integrative Biodiversity Research (iDiv), Leipzig:
Oct 2017 – June 2018	“Explaining the Latitudinal Diversity Gradient (sELDIG)”
November 2016	“Toward a consensus on the factors that structure broad-extent geographic variation in species richness (sRichGrad)”
May 2014	“Integrating phylogenies, fossils, and Earth System dynamics (sFossil)”
Nov 2013 – May 2014	“Synthesizing phylogenetic measures for ecology and conservation (sPhy)”
Oct – Dec 2016	Host to Guillermo Fandos Guzman, PhD student at Universidad Complutense de Madrid (stipend from Spanish Government)
Since 2012	Integrative Climate Change Biology Programme (iCCB) of the International Union of Biological Sciences (IUBS).
Aug 2010 – Aug 2011	ACEAS (Australian Centre for Ecological Analysis and Synthesis) working group “Vast lands and variable data: systematic analyses to understand the patterns and processes of mammal decline”
Feb 2006 - Mar 2009	EU FP6 Early-Stage Research Training Network “Understanding and conserving the Earth’s biodiversity hotspots” (HOTSPOTS): Marie Curie Early-Stage Researcher at Imperial College London, UK

Publications

27 peer-reviewed research articles published
Google Scholar h index 21 (>3500 citations) in January 2018
Profiles: [GoogleScholar](#) - [ResearcherID](#) - [ORCID](#) - [Publons](#)

PhD thesis supervision

Since Nov 2014. Alison Eyres, Goethe University Frankfurt: "Ecology and evolution of climatic niches in birds". Funding through DFG (Emmy Noether programme).

Since Nov 2014. Anna Phillips, Goethe University Frankfurt: "Evolution of ecomorphological traits in birds". Funding through DFG (Emmy Noether programme).

MSc thesis supervision

2017. Katrin Müller, Goethe University Frankfurt: "The influence of current and past climate on breeding bird assemblages in Europe". Since May 2017.

2014. Laura Birkmann, Johannes Gutenberg University Mainz: "Functional diversity of frugivorous and nectarivorous birds along an elevational gradient in Mt. Kilimanjaro". April 2013 - April 2014.

2014. Juliane Zenner, Goethe University Frankfurt: "Seasonal relationships of avian diversity with climate in Australia". November 2013 - August 2014.

2008. Maria Dickinson, Imperial College London, main supervisor Prof. Andy Purvis: "Invasive alien species, habitat loss and overexploitation: a country-level analysis of their individual impacts on the extinction and decline of mammalian species".

2008. Kennet Mattsson, Imperial College London, main supervisor Prof. Andy Purvis: "Diversity distributions in Anura: ecology, life history and geography".

2008. Charlotte Walters, Imperial College London, main supervisor Prof. Andy Purvis: "Vertebrate extinction risk in Madagascar: the effect of anthropogenic threats".

Teaching experience

MSc Ecology and Evolution, Goethe University Frankfurt:

- Organisation of the module "community ecology, macroecology and conservation", (7-week block course of 13 hours per week over the whole term / 182 contact hours, 15 CP, 2nd half of summer term 2011 and annually since 2013): co-organisation of new module in 2011 with Prof Dr Katrin Böhning-Gaese, Dr Christian Hof, Dr Thomas Müller, and Dr Matthias Schleuning; in 2013-2015 leading the organisation with the same team; assessment and marking of written and oral project reports in 2011 and annually since 2013.
- Lectures, organisation and supervision of exercises, and supervision of student project work in this module: "statistics in R" (3 half days, approx. 1 hour per week over the whole term / 14 contact hours, 2011 only) and "macroecology" (4-6 full days, approx. 3 hours per week over the whole term / 42 contact hours, 2011 and annually since 2013).
- Supervision of one student in the module "free study / student project" (6-week block course, 15 CP), October to November 2012.

MSc Biology, Copenhagen University:

- Organisation of the "ecology and evolution" seminar series as a course in the MSc, including holding several tutorials, September 2009 to February 2011.
- "International nature conservation" course, 1 day "the IUCN Red List and global conservation priorities" including lectures, organisation and supervision of exercises, November 2010 and August 2011.
- "Macroecology" course, guest lecture "macroevolution" (2 hours) and organisation and supervision of a paper discussion, October 2010.

BSc Biology, Goethe University Frankfurt:

- “Structure and function of organisms” (1st year module, 10.5 hours per week over the whole term / 147 contact hours, 12 CP): zoological exercises (6 of 12 course days per term) and participation in written exam evaluation, 2nd half of winter terms 2012/2013, 2013/2014, 2014/2015.
- “Animal ecology” (2nd year specialization module, 4 hours per week over the whole term / 56 contact hours, 6 CP): exercise “species distribution modelling” (1 of 6 course days, 6 times) with Juniorprof Dr Thomas Müller, summer term 2016, 2017.
- “Frankfurt Summer School” (4-week block course in summer break, 49.5 contact hours, 6 CP), Natural and Life Sciences Track “Modern and ancient organisms in the context of global environmental change”: lectures and exercise “Macroevolution – evolutionary change of species in fossils and molecular phylogenies” (2 days), 2017.

BSc Biology, Copenhagen University:

- Guest lecture “extinction risk, phylogeny and ecosystem functions” (1 hour), BSc 2nd year, November 2010.

Services to the scientific community

Editorial service:

Associate editor, *Proceedings of the Royal Society B: Biological Sciences* (since 2017)
Subject editor, *Ecography* (since 2014)
Associate editor, *Frontiers of Biogeography* (since 2013)

Board member, sDiv (Synthesis Centre for Biodiversity Sciences) at the German Centre for Integrative Biodiversity Research (iDiv), Leipzig, Germany

Organisation of conferences and conference sessions:

Conference “Geobiodiversity – an integrative approach expanding Humboldt’s vision”, main organiser with Prof Dr Katrin Böhning-Gaese, Senckenberg Museum Frankfurt; 01-03/10/2017, 124 participants from 21 countries, 10 keynote and 20 contributed talks

Session “Macroecology and macroevolution: investigating diversity in space and time”, organiser with Dr. Juliano Sarmiento-Cabral; 45th annual meeting of the Ecological Society of Germany, Austria and Switzerland (Gesellschaft für Ökologie, GfÖ), University of Göttingen; 03/09/2015 (1-day session)

6th annual meeting of the specialist group for macroecology of the Ecological Society of Germany, Austria and Switzerland (Gesellschaft für Ökologie, GfÖ), organiser with Dr Christian Hof and Prof Dr Katrin Böhning-Gaese, Senckenberg Museum Frankfurt; 29/02-02/03/2012, 96 participants from 12 countries, 6 keynote and 24 contributed talks

Peer reviews and expert assessments:

Funding agencies DFG (German Research Foundation), Marsden Fund (Royal Society of New Zealand – Te Apārangi), FWO (Research Foundation Flanders)

Scientific journals (profile on [Publons](#)): among others *American Naturalist*, *Conservation Biology*, *Ecology*, *Ecology Letters*, *Evolution*, *Global Change Biology*, *Global Ecology and Biogeography*, *Journal of Animal Ecology*, *Journal of Avian Biology*, *Journal of Biogeography*, *Systematic Biology*, *Trends in Ecology and Evolution*

Student travel award applications for the 6th and 7th biennial conferences of the International Biogeography Society (IBS), 2013 and 2015

Invited presentations

Departmental seminar, Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft WSL. 29/11/2017, Birmensdorf, Switzerland.

Departmental seminar, Institute of Geosciences, Goethe-Universität Frankfurt. 25/10/2017, Frankfurt, Germany.

Symposium presentation at the conference "Geobiodiversity – an integrative approach expanding Humboldt's vision". October 2017, Frankfurt, Germany.

Keynote at the 110th annual meeting of the German Zoological Society (Deutsche Zoologische Gesellschaft, DZG). September 2017, Bielefeld, Germany.

Workshop organized by the integrative Climate Change Biology Programme (iCCB) of the International Union of Biological Sciences (IUBS): "Traits past, present, and future: Quantitative approaches to paleontology, conservation, and climate change biology in Africa". March 2017, National Museums of Kenya, Nairobi, Kenya.

Invited speaker at the 58th Phylogenetic Symposium: "Evolution meets ecology". November 2016, Leipzig, Germany.

Keynote at the 46th annual conference of the Ecological Society of Germany, Austria and Switzerland (Gesellschaft für Ökologie, GfÖ): "150 years of ecology – lessons for the future". September 2016, Marburg, Germany.

Invited speaker at "Macroecology meets Biogeography", the joint meeting of the special interest groups for biogeography (Verband der Geographen an Deutschen Hochschulen, VGDH) and for macroecology (Gesellschaft für Ökologie, GfÖ). March 2016, Trier, Germany.

Departmental seminar, Department of Ecology, Philipps-Universität Marburg. 26/01/2016, Marburg, Germany.

Symposium presentation at the 32nd general assembly and conference, "Frontiers in Unified Biology", of the International Union of Biological Sciences (IUBS). December 2015, Berlin, Germany.

Keynote at EU Macro 2015, the first joint macroecology conference of the British Ecological Society (BES), the Gesellschaft für Ökologie (GfÖ), and the Center for Macroecology, Evolution & Climate (CMEC). June 2015, Copenhagen, Denmark.

Symposium presentation at the 74th annual meeting of the Society for Vertebrate Paleontology (SVP). November 2014, Berlin, Germany.

Workshop organized by the integrative Climate Change Biology Programme (iCCB) of the International Union of Biological Sciences (IUBS): "Traits in Texas: Ecometrics, phylogenies, fossils, and biotic change". April 2014, Texas A&M University, College Station, USA.

NESCent Catalysis Meeting "Integrating approaches to macroevolution: combining fossils and phylogenies". April 2013, National Evolutionary Synthesis Center, Durham, USA.

Workshop "Phylogenetic approaches to diversification - inferring evolutionary past from phylogenetic tree shapes". October 2012, Center for interdisciplinary research in biology (CIRB); Collège de France, Paris.

Workshop organized by the integrative Climate Change Biology Programme (iCCB) of the International Union of Biological Sciences (IUBS): "Traits, niches and climate as common coinage". September 2012, Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Birmensdorf, Switzerland.

Public outreach

- 25/01/2018 Press release Senckenberg BiK-F: "Mammals move less in human-modified landscapes" ([English](#) and [German](#)).
- 13/05/2017 Presenter at the open door day of Senckenberg BiK-F: "Welcher Schnabel passt zu wem" ("which bird eats which food and how").
- 27/02/2017 Press release Senckenberg BiK-F: "New insights into the mechanisms of how ungulates got bigger in the Neogene" ([English](#) and [German](#)).
- 09/10/2016 Presenter at the autumn festival of the Senckenberg Museum of Natural History: the Senckenberg beehives.
- 15/09/2016 Press release Senckenberg BiK-F: "For 20 million years, the diversity of large terrestrial mammals depended on plant growth" ([English](#) and [German](#)).
- 11/07/2014 Presentation "Brennpunkte der Biodiversität" ("hotspots of biodiversity") at "ExploreScience - Living Diversity", a 3-day event for schoolchildren and the public, organized by the Klaus Tschira Foundation in the Luisenpark, Mannheim.
- 29/04/2014 Press release BiK-F: "Gehen oder bleiben? - Neue Emmy Noether-Gruppe erforscht die Klima-Anpassung von Vögeln" ([German](#)).
- 02/12/2013 Presentation at an excursion to the Senckenberg Museum, Frankfurt, for the MentorinnenNetzwerk für Frauen in Naturwissenschaft und Technik (a female mentoring network for MINT subjects at universities in Hesse).
- 30/09/2013 Press release BiK-F: "Wanted dead and alive - New concept for a better understanding of biodiversity in time and space" ([English](#) and [German](#)).
- 20/02/2013 Press release Copenhagen University: "Wallace's century-old map of natural world updated" ([English](#), BiK-F [German](#) press release).
- 17/04/2012 Press release BiK-F: "Evolution: Vangas beat Darwin's finches in diversity" ([English](#) and [German](#)).
- 05/01/2012 Press release BiK-F: " Inselhopping zahlt sich aus - Studie unterstreicht Bedeutung des Verbreitungsgebiets bei der Artbildung" ([German](#)).

Professional memberships

DGHT - Deutsche Gesellschaft für Herpetologie und Terrarienkunde (German Society for Herpetology)

GfÖ - Gesellschaft für Ökologie (Ecological Society of Germany, Austria and Switzerland)

IBS - International Biogeography Society