

Prof. Dr. Katrin Böhning-Gaese



Functions within Senckenberg:

- Director of SBIK-F
- Head of Division Community Ecology and Macroecology (SBIK-F)
- Speaker of Program Science and Society
- Speaker of Research Field III Biodiversity and Climate
- Member of Senckenberg Board of Directors (since 2013)

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Research profile

- Macroecology, community ecology and social-ecological systems
- Influence of global change on animal communities
- Relationships between animal communities, ecosystem functions and human well-being

Research interests

I explore the relationships between biodiversity and humans at the level of species, communities and ecosystems. In particular, I study the impact of climate and land use change on animal communities and their ecosystem functions and services. I work especially on birds and large mammals, on pollination, seed dispersal and forest regeneration in both the tropics and temperate regions. The aim is to be able to predict how social-ecological systems will develop over the coming decades and how sustainable use and protection of ecosystems can be achieved.

Professional positions

Since 2010 Professor for Community Ecology and Macroecology, Goethe University Frankfurt
2001-2010 Professor for Ecology, Johannes Gutenberg University Mainz
1999-2001 Research Associate, RWTH Aachen University, Heisenberg Award by DFG
1996-1999 Research Associate, RWTH Aachen University, Habilitation Stipend by DFG
1993-1996 Postdoctoral Fellow, Max-Planck-Institute for Behavioral Physiology

Education

1999 Habilitation, University of Tübingen
1993 PhD, University of Tübingen

Five most relevant publications (2013-2019)

Peters MK, ..., **Böhning-Gaese K**, ..., Steffan-Dewenter I (2019) Climate-land use interactions shape tropical mountain biodiversity and ecosystem functions. *Nature*, 568, 88-92.
Albrecht J, ..., **Böhning-Gaese K**, Schleuning M (2018) Plant and animal functional diversity drive mutualistic network assembly across an elevational gradient. *Nat. Commun.*, 9, 3177.
Tucker MA, **Böhning-Gaese K**, ..., Mueller T (2018) Moving in the Anthropocene: Global reductions in terrestrial mammalian movements. *Science*, 359, 466-469.
Bowler DE, ..., **Böhning-Gaese K** (2017) Cross-realm assessment of climate change impacts on species' abundance trends. *Nat. Ecol. Evol.*, 1, 0067.
Fritz SA, ..., **Böhning-Gaese K**, Graham CH (2016) Twenty-million-year relationship between mammalian diversity and primary productivity. *PNAS*, 113, 10908-10913.

Relevant scientific projects 2017-2019

2017-2020 The role of nature as well as socio-economic factors for human well-being. iDiv Flexible Pool Project. (externally administered through iDiv)

2010-2018 Kilimandscharo: Ökosysteme unter globalem Wandel (DFG Forschergruppe).
2015-2018 Deutsche Vereinigung zur Kuratation biologischer Daten (GFBio) (DFG)
2015-2017 Taxon-übergreifender Vergleich der Auswirkungen von Klimawandel auf
Populationstrends (DFG).

Professional service, membership associations, cooperation in national and intl. committees

Since 2018 Member of the DFG-“Senatskommission für Grundsatzfragen der Biologischen
Vielfalt”
Since 2017 Vice President of the Leibniz Association
Since 2016 Spokesperson for the DFG Forschergruppe Kilimanjaro
2015-2018 Member of the steering committee of the German Federation for Biological Data
(GFBio)
2013 - 2017 Member of the sDiv committee of the German Centre for Integrative Biodiversity
Research (iDiv)
Since 2012 Member of the steering committee of "Map of Life" (MoL)
2012-2016 Elected spokesperson of the DFG Fachkollegium "Zoologie"
2011-2013 Member of the National Committee for Global Change Research
2008-2016 Member of the DFG "Senatskommission für Biodiversitätsforschung"
2008-2012 Elected member of the DFG Fachkollegium, "Zoologie"

Editorial activities

2007-2016 Member of the Editorial Board of Global Ecology and Biogeography

Awards and awarded memberships

2015 Elected to the Academy of Sciences and Literature | Mainz
2015 Elected to the German Academy of Sciences Leopoldina
1999 Heisenberg Award of Deutsche Forschungsgemeinschaft