



Prof. Dr. Katrin Böhning-Gaese ML

Professor at Goethe University Frankfurt

Director, Senckenberg Biodiversity and Climate Research Centre Frankfurt (SBIK-F)

Personal details

Name: Katrin Böhning-Gaese, nee Böhning
Date of birth: 22. 12. 1964
Place of birth: Oberkochen, Ostalbkreis, Germany
Marital status: married to PD Dr. Bernhard Gaese
Children: Johannes, born 1996
Sebastian, born 1997
Nationality: German

Contact details

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Sebastian-Kneipp-Straße 114
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Research interests

Relationships between people and ecosystems

- Macroecology, modelling, community ecology and social-ecological systems
- Influence of global change on biodiversity and ecosystem functions
- Relationship between biodiversity, nature's contributions to people and human well-being

Curriculum vitae

Education

10. 02. 1999 Habilitation in "Zoologie" at Universität Tübingen. Research topic: "Mikro- und makroökologische Ansätze zum Verständnis von Artengemeinschaften"; 03. 12. 1999 transferred to RWTH Aachen.
- 1990 – 1993 PhD thesis: "Ursachen für langfristige Bestandsentwicklungen europäischer und nordamerikanischer Singvögel in kontinentalem Maßstab", Universität Tübingen, supervisor Prof. Schmidt-Koenig.
23. 08. 1993 Dissertation Dr. rer. nat. magna cum laude (1.0).
- 1984 – 1990 Study of Biology at Universität Tübingen, Diplom (1.0).
Diploma thesis: "Zur Nahrungsökologie des Weißstorchs (*C. ciconia*) in Oberschwaben", Universität Tübingen, supervisor Prof. Schmidt-Koenig.
- 1975 – 1984 Gymnasium Oberkochen in Oberkochen, Reifezeugnis (1.2).

Professional experience

- 2017 - 2021 Vice-president of the Leibniz Association.
- 2013 - 2022 Member of the directorate of Senckenberg Gesellschaft für Naturforschung.
- Since 2010 W3 professor Goethe University and Director of the Senckenberg Biodiversity and Climate Research Centre, Frankfurt.
- 2001 - 2010 C3 professor for "Ecology" at Johannes Gutenberg-Universität Mainz.
- 1999 - 2001 Research Associate at RWTH Aachen, Dept. Zoologie/Tierphysiologie. Heisenberg award by DFG.
- 1996 - 1999 Research Associate at RWTH Aachen, Dept. Zoologie/Tierphysiologie. Habilitanden stipend awarded by DFG.
- 1993 – 1996 Postdoctoral fellow at Vogelwarte Radolfzell, Max-Planck-Institut für Verhaltensphysiologie, Prof. Berthold.

Research experience in other countries (selection)

- since 2012 Field project on biodiversity and ecosystem functions of birds in Podocarpus National Park, Ecuador.
- since 2010 Field project on biodiversity and ecosystem functions of birds on Mt. Kilimanjaro, Tanzania.
- 2007 - 2012 Field project on movement patterns of Trumpeter Hornbills in South Africa.
- 2001 - 2010 Field projects on human disturbance, seed dispersal and forest regeneration in Kenya and Uganda.
- 2000 - 2002 Field projects on the life-history of two *Sylvia*-warblers in Kenya (12 weeks).
- 1996 - 1998 Field project on seed dispersal in South Africa (10 weeks).
- 1994 Centre for Population Biology, Silwood Park, England, with Prof. Lawton (5 weeks).
- 1993 University of Oxford, England, with Prof. Perrins (2 weeks).
- 1992 - 1995 Field projects on seed dispersal in Madagascar (7 months).
- 1992, 1994 University of New Mexico, Albuquerque, USA, with Prof. Brown (4 months).
- 1992 Montana State University, Bozeman, USA, with Dr. Taper (2 weeks).
- 1990 - 1991 University of New Mexico, Albuquerque, USA, with Prof. Brown (13 months).

Awards

- 2022 Elected Honorary Fellow of the American Ornithological Society.
- 2021 Deutscher Umweltpreis of the Deutsche Bundesstiftung Umwelt (250.000 Euro).
- 2015 Elected fellow of Leopoldina, German National Academy of Sciences.
- 2015 Elected fellow of the Academy of Sciences and Literature | Mainz.
- 1999 Heisenberg award of the Deutsche Forschungsgemeinschaft.
- 1992 PhD fellowship of Studienstiftung des Deutschen Volkes.

Fellowships and grants

- 2020 - 2024 Speaker of the DFG Research Unit "The role of nature for human well-being in the Kilimanjaro Social-Ecological System (Kili-SES)" (FOR 5064); "Coordination Project" of the Research Unit Kili-SES (Bo 1221/33-1). PI K. Böhning-Gaese. 2.364.210 Euro.
- 2020 – 2024 Project on "Biodiversity and supply of material and non-material NCP" within DFG Research Unit "Kili-SES" (Bo 1221/32-1). PIs T. Müller, K. Böhning-Gaese, and P. Manning. (Funding KBG 92.800 Euro).
- 2019 - 2021 Project on functional island biogeography of birds within DFG Research Unit "Spatial community ecology in highly dynamic landscapes: from island biogeography to metaecosystems", PI Ch. Hof.
- 2017 – 2020 iDiv Flexible Pool project on the role of nature and socio-economic factors for human well-being. PI K. Böhning-Gaese, A. Bonn. 200.000 Euro.
- 2016 - 2018 Speaker of the DFG Research Unit "Kilimanjaro ecosystems under global change" (FOR 1246/3); "Coordination Project" of DFG Research Unit "Kilimanjaro" (BO 1221/26-3). PI K. Böhning-Gaese. 705.000 Euro.
- 2016 - 2018 "Central data base" within DFG Research Unit "Kilimanjaro" (BO 1221/27-1). PIs I. Steffan-Dewenter, T. Nauss, and K. Böhning-Gaese. (Funding KBG 6300 Euro)
- 2016 - 2018 Project on mutualistic plant-animal interaction networks within DFG Research Unit "Kilimanjaro" (Bo 1221/16-3). PIs K. Böhning-Gaese, M. Schleuning, and M. Tschapka. (Funding KBG 92.800 Euro)
- 2015 - 2018 Project funded by DFG in the framework of the German Federation for Biological Data (GFBio). K. Böhning-Gaese one of 21 PIs. (Bo 1221/25-1) (268.200 €)
- 2015 - 2016 Project funded by DFG for initiation of the multilateral network "ScenNet" in the framework of the Belmont Forum. PI for German partners K. Böhning-Gaese. (Bo 1221/24-1) (114.050 €).
- 2015 - 2017 Project funded by DFG on "A cross-taxa assessment of the impact of climate change on population abundance" (Bo 1221/23-1) (275.500 €). PI K. Böhning-Gaese.
- 2013 - 2016 Project on functional diversity of birds and bats within DFG Forschergruppe "Kilimanjaro ecosystems under global change" (Bo 1221/16-2) (274,700 €). PI K. Böhning-Gaese.
- 2013 - 2016 Project funded by DFG on functional indicators for avian seed dispersal; DFG Bundle Program: "Platform for Biodiversity and Ecosystem Monitoring and Research in South Ecuador" (262,400 €). PI K. Böhning-Gaese.
- 2012 - 2015 Project funded by DFG on the the impact of climate change on ungulates, large mammalian predators and tourists in African National Parks. (197,900 €). PI K. Böhning-Gaese.
- 2012 Mercator professorship for Prof. Dr. Catherine Graham to Goethe University Frankfurt, PI K. Böhning-Gaese. (29,300 €)
- 2011 - 2015 EU COST Action "Harmonizing global biodiversity modeling (HarmBio)". K. Böhning-Gaese one of 14 PIs.
- 2011 - 2014 Field project funded by DFG on pollinator-plant interactions in South African Fynbos. PIs M. Schleuning and F. Schurr. (M.S. 159,800 €; F.S. 148,300 €).
- 2011 Grant of the University Frankfurt, support for developing a Research Training Group

- on "Niche evolution". PIs K. Böhning-Gaese and A. Klussmann-Kolb (35,000 €).
- 2010 - 2013 Field project funded by DFG within Forschergruppe "Kilimanjaro ecosystems under global change" (Bo 1221/16-1) (171,000 €).
- 2009 - 2012 Field project funded by DFG on movement patterns and seed dispersal of Trumpeter Hornbills in South Africa (Bo 1221/15-1) (166,000 €).
- 2009 - 2011 Grant of Femarn Bælt A/S on the impact of changes in environment and climate on waterbirds and migrating birds in the Fehmarnbelt region. Co-PI (25,000,- €).
- 2009 - 2010 Grant of the Universität Mainz, supplementary support for TREES, tropical forest ecosystem services, land-use, and rural livelihoods in East Africa (70,000,- €).
- 2007 - 2010 Field project funded by BMBF, BIOLOG Program, on the influence of climate change and human disturbance on East African rainforests: management tools and recommendations (01LC0625/E11) (537,900,- €).
- 2007 - 2010 Field project funded by DFG on landscape structure, bird diversity, and seed dispersal of the wild cherry (Bo 1221/13-1) (89,200,- €).
- 2006 - 2009 Bundesamt für Naturschutz, F+E project on nature reserves in Germany under climate change (54,000,- €).
- 2004 - 2007 Virtual Institute of the Helmholtz-Gemeinschaft, "Macroecology", project on "Global change and bird communities" (VH-VI-153) (150,000,- €).
- 2004 - 2007 Field project funded by BMBF, BIOLOG Program, on the influence of human disturbance on seed dispersal and forest regeneration in East African rain forests (01LC0405/E11) (549,800,- €).
- 2004 Grant of the Universität Mainz, project on the influence of global climate change on bird communities (5000,- €).
- 2002 - 2004 Field project funded by DFG on the influence of the Atlas Mountains on the migratory routes of Palearctic songbirds (Bo 1221/10-1) (152,600,- €).
- 2001 - 2004 Field project funded by BMBF, BIOLOG Program, on fragmentation, seed dispersal and forest regeneration in Kakamega Forest, Kenya (01LC0025/E11) (483,000,- DM).
- 2001 - 2003 Field project funded by DFG on the ecology and evolution of frugivory and seed dispersal in Madagascar and South Africa (Bo 1221/7-2) (188,600,- DM).
- 2001 - 2002 Grant of the Universität Mainz, field project on the influence of inundation disturbances on mutualistic animal-plant interactions (66,000,- DM).
- 1999 - 2002 Field project funded by DFG on the life-history of temperate and tropical *Sylvia* warblers (Bo 1221/9-1) (137,300,- DM).
- 1999 - 2001 Heisenberg award of the DFG (Bo 1221/8-1) (223,300,- DM).
- 1998 - 2001 Field project funded by the DFG on the ecology of frugivory and seed dispersal in Madagascar and South Africa (Bo 1221/7-1) (116,500,- DM).
- 1996 - 1999 Habilitanden fellowship and grant of the DFG, project on the macroevolution of migratory behavior in birds (Bo 1221/4-1, 4-2, 6-1) (152,200,- DM).
- 1996 Travel grant of DFG, field project on seed dispersal in the genus *Commiphora* in South Africa (Bo 1221/3-1) (6800,- DM).
- 1995, 1996 Travel grants of DFG, visits to the annual meetings of the Ecological Society of America 1995 and 1996 (Bo 1221/2-1, 5-1) (4000,- DM).
- 1993 - 1996 Postdoctoral fellowship of the DFG (Bo 1221/1-1, 1-2) (95,000,- DM).
- 1993 - 1995 A. F. W. Schimper grant of the Heinrich- und Erna-Walter-Stiftung, field project on seed dispersal in Madagascar (26,100,- DM).
- 1992 - 1993 PhD fellowship of the Studienstiftung des deutschen Volkes (25,300,- DM).
- 1990 Field project, funded by the Reinhold-und-Maria-Teufel-Stiftung, on small mammals and ants in the Chihuahuan desert, USA (1200,- DM).
- 1987 - 1990 Study fellowship of the Studienstiftung des deutschen Volkes (3600,- DM).

Total: > 7.600.000,- €

Professional services for science, society and nature conservation

- Member of the "Rat für Nachhaltige Entwicklung" (since 2023)

- Member of the Hochschulrat of the University of Kassel (since 2023)
- Member of the Advisory Committee of the UN-Decade on Ecosystem Restoration (since 2022)
- Speaker of "Fokusgruppe Biodiversität, Klima und Landnutzung" of Leopoldina (since 2022).
- Member of international IPBES "Nature Futures" working group (2022)
- Member of the Advisory Committee of the Leopoldina "Zentrum für Wissenschaftsforschung" (since 2022)
- Member of the Advisory Committee of the Legacy Landscape Fund (since 2021).
- Member of the Board of Zoologische Gesellschaft Frankfurt (since 2019).
- Member of the DFG „Senatskommission für Grundsatzfragen der Biologischen Vielfalt“ (since 2018).
- Member of the Scientific Committee of the DIVERSITAS bioDISCOVERY Core Project (2014 – 2017).
- Member of the German National Committee for Global Change Research (2011 - 2013).
- Elected spokesperson of the DFG Fachkollegium "Zoologie", "Ökologie der Tiere, Biodiversität und Ökosystemforschung" (2012 - 2016).
- Fachkollegium of the DFG, "Zoologie", "Ökologie der Tiere und Ökosystemforschung" (2008 – 2012).
- Member of the "Senatskommission für Biodiversitätsforschung" of the DFG (2008 - 2016).
- Member of the steering committee of the German Federation for Biological Data (GFBio) (2015 – 2018).
- Member of the steering committee of Map of Life (MoL) (since 2012).
- Member of the executive committee of sDiv, German Centre for Integrative Biodiversity Research – iDiv (2013 - 2017).
- Member of the steering committee of the Forschergruppe Kilimanjaro "Kilimanjaro ecosystems under global change" (since 2010).
- Member of the steering committee of "Forschungszentrum Erdsystemwissenschaften", Johannes Gutenberg-Universität Mainz (2008 - 2010).
- Chairperson of the special interest group "Macroecology" of the "Gesellschaft für Ökologie" (2006 - 2016).
- Chairperson of the "Fachgruppe Ökologie" of the "Deutsche Zoologische Gesellschaft" (2003 - 2007).
- Member of the International Ornithological Committee (IOC) (since 1998) and of the advisory board of the Deutsche Ornithologen-Gesellschaft" (1999 - 2004).
- Member of the Editorial Boards of *Global Ecology and Biogeography* (2007 - 2016), *Oecologia* (1999 - 2008), *Basic and Applied Ecology* (2007 - 2008), *Ecotropica* (1995 - 2010), *Journal of Ornithology* (2004 - 2009), and *Avian Science* (2001 - 2003).
- *ad-hoc* referee for *Science*, *PNAS*, *Plos One*, *Trends in Ecology & Evolution*, *Current Biology*, *The American Naturalist*, *Ecology Letters*, *Ecology*, *Oecologia*, *Proceedings of the Royal Society B*, *Biological Journal of the Linnean Society*, *Global Change Biology*, *Ecological Applications*, *Conservation Biology*, *Biodiversity and Conservation*, *Global Ecology and Biogeography*, *Ecography*, *Diversity and Distributions*, *Journal of Biogeography*, *Basic and Applied Ecology*, *Acta Oecologica*, *Écoscience*, *Journal of Tropical Ecology*, *Studies on Neotropical Fauna and Environment*, *Ecotropica*, *International Journal of Plant Sciences*, *Flora*, *Insectes Sociaux*, *Archiv für Hydrobiologie*, *Journal of Avian Biology*, *Journal of Ornithology*, *Condor*, *Avian Science*, and *Ardeola*.
- Member of the evaluation committee of the Museum Koenig, Bonn (2006).
- Reviewer for the "Landes-Offensive zur Entwicklung Wissenschaftlich-ökonomischer Exzellenz (LOEWE) des Landes Hessen" (2008).
- Reviewer for Deutsche Forschungsgemeinschaft (DFG), Deutscher Akademischer Austausch Dienst (DAAD), Leibniz-Gemeinschaft, National Science Foundation (NSF, USA), Natural Environment Research Council (NERC, Great Britain), Finnish Academy of Sciences, German-Israeli Foundation for Scientific Research and Development (GIF), Netherlands Organisation for Scientific Research (NWO) and Studienstiftung des deutschen Volkes.
- Selection committee of the "Studienstiftung des deutschen Volkes".

Organisation of scientific meetings

- Senckenberg Conference "Geobiodiversity – An Integrative Approach Expanding Humboldt's Vision", Frankfurt am Main (2017).
- Organization of the Leopoldina-Symposium "Erdbeobachtung durch Tiere. Chancen und Perspektiven". Berlin (2016).
- Member of the "Organisation Committee" for the International Conference on Scenarios and Models of Biodiversity and Ecosystem Services in Support of Decision Making, Montpellier (2015 - 2016).
- Organization of the 6. meeting of the special interest group "Macroecology" of the "Gesellschaft für Ökologie", Frankfurt together with S. Fritz and C. Hof (2012).
- Member of the "Scientific Program Committee" for the 5th International Frugivory and Seed Dispersal Symposium, Montpellier (2005 – 2010).
- Organization of the 1. meeting of the special interest group "Macroecology" of the "Gesellschaft für Ökologie", Mainz (2007).
- Member of the "Scientific Program Committee" for the meeting "Macroecological tools for global change research", PIK, Potsdam (2006).
- Symposium "Macroecology" at the International Ornithological Congress, Hamburg together with Prof. Rahbek, Denmark (2006).
- Member of the "Scientific Program Committee" for the 24th International Ornithological Congress, Hamburg (2002 – 2006).
- Symposium "Impact of birds on ecosystem structure and function" at the International Ornithological Congress, Beijing, China together with Prof. Gauthier, Canada (2002).
- Symposium "Evolution der Vögel" at the meeting of the "Deutsche Ornithologen-Gesellschaft", Leipzig (2000).
- Workshop "Samenverbreitung durch Primaten" at the Primatenzentrum Göttingen together with Prof. Ganzhorn (1995).
- Symposium "Ökologie tropischer Lebensgemeinschaften" at the meeting of the "Gesellschaft für Ökologie", Frankfurt (1994).

Invited scientific talks:

- Plenary talk, Festveranstaltung, *100 Jahre Wilhelm Lauer*, Bonn (2023)
- Plenary talk, *CRC Future Rural Africa Lecture Series*, Köln (2023)
- Lecture in the *Ringvorlesung Erdsystemforschung*, TU Darmstadt (2022)
- Keynote talk on „Biodiversity conservation in Germany“ in the Workshop “Zusammen-Leben im Anthropozän”, Deutsches Museum München (2022)
- Public evening lecture, *Deutsche Zoologische Gesellschaft*, Bonn (2022)
- Plenary talk, *Distinguished Lecturers Series Innovation Pathways to Sustainability*, Bonn (2022)
- Keynote talk at „1. Forum des Nationalen Monitoringzentrums zur Biodiversität“, Leipzig (2022)
- Plenary talk at *Symposium Zoonotische Infektionskrankheiten* (2022)
- Plenary talk on „A new approach to site selection for the global conservation of biodiversity in perpetuity“. *Half-Earth Day* (2021).
- *Johannes-Müller-Vorlesung*, Fachbereich Biologie, Chemie und Pharmazie of FU Berlin (2021).
- Opening speech on “Biodiversity and people in the Anthropocene” at the *Annual Meeting of the Leopoldina* (2021).
- Plenary talk on „Planetary thinking and nature conservation” in the lecture series “Exploring planetary thinking”, *Goethe University* (2021)
- Keynote talk on “Das Planetare und der Naturschutz” at the colloquium “Perspektiven auf das Planetare“, *University Gießen* (2021).
- Keynote talk on “Rückgang der Biodiversität, Zunahme von Pandemien? Eine sozial-ökologische Perspektive“ at a public workshop on the Corona and biodiversity crisis” by *MfN and Leibniz network “Crises in a Globalised World”* (2020).
- Keynote talk on “Das große Artensterben: Was wissen wir und was müssen wir tun?“ at the digital conference „Zukunftsfragen“ of the *EKHN Stiftung and Senckenberg* (2020).
- *Cambridge Conservation Initiative* seminar series (2020)

- *Kerner von Marilaun keynote talk* at a Conference on "Biodiversität als wissenschaftliche und gesellschaftliche Herausforderung", organised by ÖAW, Wien (2020)
- Plenary talk on "Welche Werte hat Natur?", *Akademie der Wissenschaften und Literatur, Mainz* (2019)
- Plenary talk on "Sind Vögel nützlich?", *Urania*, Berlin (2018)
- Plenary talk on "An integrative approach to nature in the Anthropocene: science, data, people" *iDiv*, Leipzig (2018)
- Plenary talk on Kilimanjaro ecosystems under global change, *Moshi*, Tanzania (2018)
- Keynote talk on Biodiversity research in the *Leibniz Association*, Brussels (2018)
- Keynote talk at MICMoR Research Forum, *KIT*, Garmisch-Partenkirchen (2017).
- Plenary talk at 25th Anniversary of *Deutsche Bundesstiftung Umwelt*, Osnabrück (2017)
- Keynote talk at Biodiversitäts-Symposium of the *Akademie der Wissenschaften und der Literatur, Mainz* (2017).
- Keynote talk at *AfroMont Research Conference*, Moshi, Tanzania (2017).
- *Universität Greifswald*. Prof. Fischer (2016).
- Keynote talk at *Leopoldina-Symposium*, Lebenswissenschaften, Halle (2016).
- Plenary talk at the "6th International Frugivory and Seed Dispersal Symposium", Drakensberge, South Africa (2015).
- Keynote talk at the *Future Earth Symposium* "Global Biodiversity Monitoring", Prof. Jetz, Yale University (2015).
- Workshop der "Wissenschaftlichen Kommission Umwelt" der *Leopoldina* (2015).
- *Universidad del Azuay*, Cuenca, Ecuador, Prof. Zárate (2014).
- *Universität Göttingen*, Prof. Scheu (2014).
- *Kerner von Marilaun keynote talk* at the Conference on "Diversität und Wandel - Leben auf dem Planeten Erde", organised by ÖAW, Leopoldina, acatech und IIASA, Wien (2014).
- Keynote talk at "2. Nationales Forum zu IPBES", Bonn (2013).
- Keynote talk at the Joint European Conference of the BfN and the European Network of Heads of Nature Conservation Agencies (*ENCA*), Bonn (2013).
- Keynote talk at the meeting of the *International Biogeography Society*, Miami (2013).
- Plenary talk at the *Yale University Symposium* "Spatial Biodiversity Science and Conservation at a Global Scale" (2012).
- Plenary talk at the inaugural meeting of the special interest group "Macroecology" of the *British Ecological Society* (2012).
- Invited talk at the symposium "Do we need birds?", *British Ornithologist Union* (2012).
- Plenary talk at the Symposium "Multitrophic interactions", Prof. Tschardt, *Göttingen* (2012).
- Invited talk at the *Max Planck Symposium "Biodiversity"*, Berlin (2012).
- *Silwood Park*, England, Division of Biology, Dr. Orme (2011).
- Plenary talk at the meeting of the *Deutsche Ornithologen-Gesellschaft* (2011).
- *Universität Freiburg*, Zoologisches Kolloquium, PD Dr Schaefer (2011).
- *Senckenberg Naturhistorische Sammlungen Dresden*, Prof. Fritz (2011).
- *Weihenstephaner Kolloquium zur Angewandten Ökologie und Planung*, Prof. Stöcklein (2010).
- Invited talk at the Meeting of the Ecological Society of America, Pittsburgh, Pennsylvania, USA (2010).
- *University Marburg*, Ökologisches Kolloquium, Prof. Farwig (2010).
- Plenary talk at the "5th International Frugivory and Seed Dispersal Symposium", Montpellier (2010)
- *University Zürich*, Botanisches Kolloquium, PD Dr. Kessler (2010).
- *Universität Rostock*, Biologisches Kolloquium, Prof. Porembski (2009).
- *University of KwaZulu-Natal*, Pietermaritzburg, South Africa, Prof. Downs (2009).
- *Biodiversität und Klima Forschungszentrum*, Frankfurt, Prof. Oehlmann (2009).
- *Max Planck Institute for Ornithology*, Prof. Wikelski (2008).
- *Universität Bayreuth*, Lehrstuhl Tierökologie I, Prof. Steffan-Dewenter (2008).
- *Silwood Park*, England, Division of Biology, Prof. Coulson (2008).
- *Universität Würzburg*, Zoologisches Institut III, Prof. Riederer (2008).
- Plenary talk at a *symposium of the state Rheinland-Pfalz* on "Biodiversität" (2008).
- *Universität Göttingen*, Biologische Fakultät, Prof. Leuschner (2007).

- *UFZ Leipzig-Halle*, Department of Community Ecology, Dr. Klotz (2006).
- Plenary talk at the Presidential Forum "Bird science and conservation", *International Ornithological Congress*, Hamburg (2006).
- Plenary talk at the symposium "Macroecology", *International Ornithological Congress*, Hamburg (2006).
- Plenary talk at the international conference "Macroecological tools for global change research", *PIK*, Potsdam (2006).
- *Bundesamt für Naturschutz*, Insel Vilm, Rügen (2006).
- *Universität Bielefeld*, Fakultät für Biologie, Dr. Kraemer (2006).
- *Tierärztliche Hochschule Hannover*, Institut für Zoologie, Prof. Zimmermann (2006).
- Plenary talk at the "4th International Frugivory and Seed Dispersal Symposium/Workshop", Brisbane, Australia (2005).
- *University of Copenhagen*, Copenhagen, Denmark, Biological Institute, Prof. Rahbek (2005).
- *TU Darmstadt*, Fachbereich Biologie, Prof. Scheu (2004).
- *TU München/FH Weihenstephan*, Prof. Zahner (2004).
- *Universität Potsdam*, Institut für Biochemie und Biologie, Prof. Jeltsch (2004).
- Plenary talk at the meeting of the "*Gesellschaft für Tropenornithologie*", Berlin (2004).
- Plenary talk at the symposium "Birds and berries and plant secondary metabolites", *Universität Heidelberg* (2003).
- *Universität Tübingen*, Zoologisches Institut, Prof. Schnitzler (2003).
- *Zoological Museum, University of Copenhagen*, Copenhagen, Denmark, Prof. Rahbek (2003).
- *Universität Frankfurt*, Zoologisches Institut, Prof. Wiltschko (2003).
- Plenary talk at the symposium "Birds of Two Worlds", *Smithsonian Environmental Research Center*, Virginia, USA (2002).
- Plenary talk at the meeting of the "*Deutsche Zoologische Gesellschaft*", Universität Halle (2002).
- *Ludwig-Maximilians-Universität München*, Department Biologie, Prof. Diehl (2002).
- *Universität Essen*, Fachbereich Zoologie, Prof. Burda (2002).
- *TU Braunschweig*, Zoologisches Institut, Prof. Rüppell (2001).
- *Universität Trier*, Biogeographisches Institut, Prof. Müller (2001).
- *National Museums of Kenya*, Nairobi, Kenya, Dr. Bennun (2001).
- *Universität Mainz*, Institut für Zoologie, Prof. Seitz (2000).
- *Universität Marburg*, Fachbereich Biologie, Prof. Galland (2000).
- *Universität Lüneburg*, Fachbereich Umweltwissenschaften, Prof. Härdtle (2000).
- *Konrad Lorenz-Institut für Vergleichende Verhaltensforschung*, Wien, Prof. Winkler (2000).
- *Universität Bayreuth*, Institut für Terrestrische Ökosystemforschung, Prof. Hauhs (2000).
- *Universität Bern*, Zoologisches Institut, Prof. Nentwig (2000).
- Plenary talk at the "*Phylogenetische Symposium*" "Phylogenie und Ökologie", Universität Hamburg (2000).
- *Universität Göttingen*, Institut für Zoologie und Anthropologie, Prof. Schaefer (1999).
- *Universität Bonn*, Zoologisches Institut, Prof. Rasa (1998).
- *Max-Planck-Institut für Verhaltensphysiologie*, Seewiesen, Prof. Gwinner (1998).
- *Tierärztliche Hochschule Hannover*, Institut für Zoologie, Prof. Zimmermann (1998).
- *Universität Bonn*, Fachgruppe Biologie, Prof. Bleckmann (1998).
- *Universität Erlangen*, Institut für Zoologie II, Prof. v. Helversen-Helversheim (1998).
- *Universität Ulm*, Allgemeine Zoologie, Prof. Spindler (1998).
- *Universität Marburg*, Fachbereich Biologie, Prof. Bertsch (1997).
- *Bundesamt für Naturschutz*, Insel Vilm, Rügen (1997).
- *Universität Hamburg*, Zoologisches Institut, Prof. Franck (1996).
- *Universität Potsdam*, Institut für Ökologie und Naturschutz, Prof. Wallschläger (1996).
- *Max-Planck-Institut für Verhaltensphysiologie*, Seewiesen, Prof. Wickler (1995).
- *UFZ Leipzig-Halle*, Sektion Ökosystemanalyse, Prof. Wissel (1994).
- *Universität Würzburg*, Zoologisches Institut III, Prof. Linsenmair (1994).
- *Silwood Park, England*, Centre for Population Biology, Prof. Lawton (1994).
- *British Trust for Ornithology*, Thetford, England, Prof. Greenwood (1994).
- *University of New Mexico*, Albuquerque, USA, Dept. of Biology, Prof. Brown (1994).

- University of Oxford, Dept. of Zoology, England, Prof. Perrins (1993).
- Centre for Population Biology, Silwood Park, England, Prof. Lawton (1993).

Student supervision

Diploma-, Masters-, Staatsexamens- and Bachelor theses:

49. Dominik Merges: Einfluss von Umweltbedingungen und Samenprädation auf die Keimlingsetablierung der Arve (Masters thesis, co-supervisor Eike-Lena Neuschulz, 2015).
48. Joel Methorst: Zusammenhang zwischen der Ausbreitungsfähigkeit und Klimatische von Organismen (Masters thesis, co-supervisor Christian Hof, 2015).
47. Juliane Zenner: Seasonal relationships of avian diversity with climate in Australia (Masters thesis, co-supervisor Susanne Fritz, Universität Frankfurt, 2014).
46. Laura Birkmann: Functional diversity of frugivorous birds along an elevational gradient on Mt. Kilimanjaro (Masters thesis, co-supervisor Susanne Fritz, Universität Mainz and Frankfurt, 2014).
45. Julia Schmack: Insect predation by birds and bats in coffee plantations in relation to land use intensity at the Kilimanjaro (Masters thesis, co-supervisor Matthias Schleuning; Universität Frankfurt, 2013).
44. Karin Forstner: Nischendynamik von Fliegenschnäppern (Gattung *Ficedula*) und Spöttern (Gattung *Hippolais*) unter Klimawandel (Bachelor thesis, co-supervisor Christian Hof, Universität Frankfurt, 2013).
43. Josephine Sonnenberg: Niche and range dynamics of Wheatears (genus *Oenanthe*) under climate change (Masters thesis, co-supervisor Christian Hof, Universität Frankfurt, 2012).
42. Laura Längsfeld: Netzwerke zwischen frugivoren Vögeln und fruchtenden Pflanzen entlang eines Landnutzungsgradienten. (Diplomarbeit, co-supervisor Matthias Schleuning, Universität Mainz, BiK-F, 2012).
41. Alexander Zizka: Life history strategies of trees and shrubs in South African Savanna (Masters thesis, main supervisor Steven Higgins, Universität Frankfurt, 2012).
40. Lili Ingmann: Latitudinal trends in the modularity of quantitative seed dispersal networks. (Diplomarbeit, co-supervisor Matthias Schleuning, Universität Mainz, BiK-F, 2012).
39. David Weiß: Struktur von Interaktions-Netzwerken auf globalem Maßstab (Diplomarbeit, co-supervisor Matthias Schleuning, Universität Mainz, BiK-F, 2011).
38. Michaela Plein: Netzwerke zwischen frugivoren Vögeln und fruchtenden Pflanzen entlang eines Landnutzungsgradienten. (Diplomarbeit, co-supervisor Matthias Schleuning, Universität Mainz, BiK-F, 2011).
37. Patrizia Estler: Ökomorphologie frugivorer Vögel entlang eines Höhengradienten in den peruanischen Anden. (Diplomarbeit, co-supervisor Matthias Schleuning, Universität Mainz, BiK-F, 2011).
36. Julia Markl: Einfluss menschlicher Störungen auf Samenausbreitung durch Tiere: eine Meta-Analyse (Diplomarbeit, co-supervisor Matthias Schleuning, Universität Mainz, 2011).
35. Julia Solveig-Brennecke: Einfluss der Distanz zum Waldrand und Zerstörungsgraden auf die holzige Strauch- und Baum-Gesellschaft und auf nutzbare Pflanzen des Kakamega Regenwalds, West Kenia (Diplomarbeit, co-supervisor Dana Berens, Universität Gießen and Universität Mainz, 2010).
34. Verena Schuldenzucker: Einfluss von Waldmanagement auf Störung des Kakamega Forest, Kenia (Diplomarbeit, co-supervisor Dana Berens, Universität Mainz, 2010).
33. Jonathan Debler: Einfluss der Landnutzung auf die Streifgebiete des Trompeter-Nashornvogels (Diplomarbeit, co-supervisor Marc Niggemann, Universität Mainz, 2010).
32. Peter Søgaaard Jørgensen: Factors explaining spatial variation in European bird population trends (Master's thesis, main supervisor C. Rahbek, University of Copenhagen and Universität Mainz, 2010).
31. Stefanie Rau: Einfluss des Klimas auf die Populationsdynamik von häufigen Vögeln in Deutschland (Diplomarbeit, co-supervisor Monika Schwager, Universität Mainz, 2010).
30. Jessica Gowitzke: Einfluss anthropogener Nutzung auf die Populationsstruktur von *Anogeissus leiocarpa* (DC.) Guill. & Perr. und *Detarium microcarpum* Guill. & Perr. im Biosphärenreservat

- Pendjari, Benin (Diplomarbeit, main supervisor R. Wittig, Universität Frankfurt and Universität Mainz, 2010).
29. Eva Neitscher: Streifgebietsgröße von Amseln (*Turdus merula*) in Abhängigkeit von der Versorgung ihres Nachwuchses (Diplomarbeit, co-supervisor Marc Niggemann, Universität Mainz, 2010).
 28. Michaela Hanauer: Zusammenhang zwischen der Streifgebietsgröße von Amseln (*Turdus merula*) und der Intensität der menschlichen Landnutzung (Diplomarbeit, co-supervisor Marc Niggemann, Universität Mainz, 2010).
 27. Sebastian Menke: Anthropogenic edges increase frugivore visitation and redundancy of seed-dispersal relationships in a Kenyan rain forest (Diplomarbeit, co-supervisor Matthias Schleuning, Universität Mainz, 2010).
 26. Stefan Ferger: Carbon sources of forest and farmland birds in a Kenyan rainforest and its adjacent farmland (Diplomarbeit, co-supervisor Matthias Schleuning, Universität Mainz, 2009).
 25. Katharina Lanegger: The influence of climate on the population dynamics and the distribution of the European Bee-eater (*Merops apiaster*) in Germany (Diplomarbeit, co-supervisor Monika Schwager, Universität Mainz, 2009).
 24. Heiko Korntheuer: Auswirkungen populationsbiologischer, ökologischer und morphologischer Merkmale europäischer Singvögel auf die Größe ihrer Verbreitungsgebiete (Diplomarbeit, Universität Mainz, 2009).
 23. Christoph Böhm: Der Einfluss von Umweltvariablen auf die Rekrutierung und Etablierung von *Prunus avium* L. im Wald- und Feldhabitat in Rheinhessen (Staatsexamensarbeit, co-supervisor Matthias Schleuning, Universität Mainz, 2009).
 22. Claudia Grünewald: Ausbreitung der Samen von *Prunus avium* durch Säugetiere (Diplomarbeit, Universität Mainz, 2009).
 21. Martina Flörchinger: Farbe, Morphologie und sekundäre Inhaltsstoffe von vogel- versus affen- ausgebreiteten tropischen Baumarten (Diplomarbeit, Universität Mainz and Universität Freiburg, 2009).
 20. Johanna Lenz: Streifgebiete und Bewegungsmuster von Trompeter-Hornvögeln (*Ceratogymna bucinator*) in einer fragmentierten Landschaft (Diplomarbeit, Universität Mainz, 2008).
 19. Britta Dawideit: Zusammenhang zwischen Morphologie, Ausbreitungsverhalten und Zugverhalten von Singvögeln (Diplomarbeit, Universität Mainz, 2008).
 18. Svenja Tillmann: Bestäubung der Wildkirsche (*Prunus avium*) entlang eines menschlichen Störungsgradienten (Diplomarbeit, Universität Mainz und Universität Bayreuth, 2008).
 17. Sabine von der Gönna: Einfluss menschlicher Störung auf Kleinsäuger und Samenprädation in Kakamega Forest, Kenia (Diplomarbeit, co-supervisor Nina Farwig, Universität Mainz, 2007).
 16. Nils Breitbach: Landscape structure, avian diversity and seed removal of the wild cherry (*Prunus avium* L.) (Diplomarbeit, Universität Mainz, 2006).
 15. Irina Laube: Landscape structure, avian diversity and seed removal of the wild cherry (*Prunus avium* L.) (Diplomarbeit, Universität Mainz, 2006).
 14. Kathrin Burkhart: Warum sind die Lebensgeschichten tropischer und temperater Singvögel so unterschiedlich? (Diplomarbeit, co-supervisor Hans-Christian Schaefer, Universität Mainz, 2006).
 13. Nickson Otieno, Kenia: Bird diversity in relation to farm structure in western Kenya (Master's thesis, co-supervisor Nina Farwig, Universität Mainz and University of Nairobi, since 2005).
 12. Fred Barasa Munyekenye, Kenia: Bird communities in differently managed forest stands in Kakamega Forest, Kenya (Master's thesis, co-supervisor Nina Farwig, Universität Mainz and University of Nairobi, 2005).
 11. Anke Rander: Fremdvaterschaften bei der Mönchsgrasmücke (*Sylvia atricapilla*) (Diplomarbeit, Universität Freiburg and Universität Mainz, 2005).
 10. Dana Berens: Exotic fruiting guava trees are suitable nursing trees for forest regeneration in Kenyan farmlands (Diplomarbeit, Universität Mainz, 2005).
 9. Monika Melcher: Einfluss menschlicher Störungen auf Samenprädation von *Prunus africana* im Kakamega-Forest, Kenia (Diplomarbeit, co-supervisor Bärbel Bleher, Universität Mainz, 2004).
 8. George Were Eshiamwata: *Ficus* trees as centres of forest regeneration in the agricultural landscape around Kakamega forest, Kenya (Master's thesis, co-supervisor Bärbel Bleher,

Universität Mainz and Percy FitzPatrick Institute of African Ornithology, University of Cape Town, 2004).

7. Jasper M. Kirika, Kenya: Influence of human disturbance on seed dispersal of a keystone genus, *Ficus* spp. in Kakamega forest, Kenya (Master's thesis, co-supervisor Bärbel Bleher, Universität Mainz and University of Nairobi, 2004).
6. Stefanie Jung: Bestäubungsökologie des diözischen Baumes *Commiphora harveyi* in Südafrika (Staatsexamensarbeit, Universität Mainz, 2003).
5. Nina Farwig: Bestäubungsökologie des diözischen Baumes *Commiphora guillauminii* (Burseraceae) auf Madagaskar (Diplomarbeit, Universität Marburg and Universität Mainz, 2002).
4. Friederike Voigt: Einfluss von Samenausbreitern auf die Häufigkeit von Fruchttypen in tropischen Baumgemeinschaften (Diplomarbeit, Universität Marburg and RWTH Aachen, 2001).
3. Marita Schuda: Ökomorphologie tropischer und temperater Arten der Grasmücken (Gattung *Sylvia*) (Diplomarbeit, RWTH Aachen, 2001).
2. Nicole Lemoine: Einfluss von Klimafaktoren auf die Zusammensetzung europäischer Vogelgemeinschaften (Diplomarbeit, RWTH Aachen, 2000).
1. Reik Oberrath: Blütenökologie beim Hügel-Lungenkraut (*Pulmonaria collina*) (Diplomarbeit, Universität Tübingen, 1996).

PhD theses:

26. Joel Methorst: Influence of species diversity on human well-being (co-supervisors A. Bonn, K. Rehdanz, T. Müller; 2016 - 2020)
25. Marta Quitián: Experimental plant-frugivore interaction networks along elevational and land-use gradients in the Andes (co-supervisors Eike-Lena Neuschulz and Matthias Schleuning; University of Frankfurt, 2014 – 2018).
24. Vinicio Santillán: Bird communities and seed dispersal networks along elevational and land-use gradients in the Andes (co-supervisor Eike-Lena Neuschulz; University of Frankfurt, since 2014).
23. Maximilian Vollstädt: Functional diversity and mutualistic interactions of birds (co-supervisor Matthias Schleuning; University of Frankfurt, 2013 - 2018).
22. Ugo Arbieu: Potential influence of climate and land-use change on large mammal densities in African National Parks (University of Frankfurt, 2013 - 2017).
21. Marcia Muñoz Neyra: Plant frugivore networks under global change in a tropical Andean forest (co-supervisor Matthias Schleuning, University of Frankfurt, 2010-2017).
20. Claudia Grünwald: Potential influence of climate change on large mammal densities and tourism in African National Parks (University of Frankfurt, 2010 - 2015).
19. Imran Khaliq: Physiological temperature niche and geographic ranges of birds (co-supervisors Markus Pfenninger and Christian Hof, University of Frankfurt, 2011 - 2014)
18. Hamadi Iddi Dulle: Impact of climate change and human disturbance on forest birds of Mount Kilimanjaro (co-supervisor Christian Hof, University of Frankfurt, 2011 - 2015).
17. Stefan Ferger: Influence of climatic factors and land-use on diversity and ecosystem function of birds on Mount Kilimanjaro (University of Frankfurt, 2010 - 2014).
16. Maria Maglianesi: Understanding patterns and processes in plant–hummingbird mutualistic networks in the Neotropics (co-supervisor Matthias Schleuning, University of Frankfurt, 2010 - 2014).
15. Matthias Dehling: Seed dispersal networks and functional diversity of birds and plants along an altitudinal gradient in the tropical Andes (co-supervisor Matthias Schleuning, University of Frankfurt, 2009 - 2014).
14. Baptiste Schmid: Animal pollination and plant fecundity in South African Fynbos: the Protea bird system (co-supervisor Matthias Schleuning, University of Frankfurt, 2010 - 2014).
13. Johanna Lenz: Movement patterns of Trumpeter Hornbills (*Ceratogymna bucinator*) in a fragmented landscape (University of Frankfurt, 2009 - 2012).
12. Ronald K. Mulwa: Spatial and temporal fluctuations in bird communities along forest-farmland gradient in Western Kenya (co-supervisor Matthias Schleuning, University of Frankfurt, 2008 - 2011).

11. Irina Laube: Avian range dynamics: traits, biotic interactions and niches in a changing environment (University of Frankfurt, 2007 - 2011).
10. Nils Breitbart: The impact of land-use intensification on pollination and seed-dispersal interactions in the wild cherry (*Prunus avium*) (University of Frankfurt, 2007 - 2011).
9. Dana Berens: Assessing the consequences of contagious seed shadows for demography and genetic patterns in the endangered tree *Prunus africana* (Universität Mainz, 2005 – 2010; PhD with interruptions).
8. Daniel Kissling: Macroecology of avian frugivore diversity (Universität Mainz, 2005 - 2008).
7. Jasper M. Kirika: Frugivores, seed dispersal and tree regeneration along a human disturbance gradient in East African tropical rainforests (Universität Mainz, 2004 - 2007).
6. Nina Farwig: Impact of forest fragmentation and disturbance on the endangered tropical tree *Prunus africana* (Rosaceae) (Universität Mainz, 2002 - 2005).
5. Nicole Lemoine: Influence of habitat and climate change on European bird communities (Universität Mainz, 2001 - 2005).
4. Friederike Voigt: Influence of pollination and seed dispersal on the genetic population structure of two *Commiphora* species in Madagascar and South Africa (Universität Mainz, 2001 - 2005).
3. Hans-Christian Schaefer: The life histories of the two tropical warblers *Sylvia boehmi* and *Sylvia lugens* (Universität Mainz, 2001 - 2004).
2. Reik Oberrath: Seed dispersal by ants and its consequences for the phenology of plants – A study system for mutualistic animal-plant interactions (RWTH Aachen, 1997 – 2000).
1. Bärbel Bleher: Seed dispersal and frugivory: ecological consequences for tree populations and bird communities (RWTH Aachen, 1997 – 2000).

External evaluator of PhD theses:

- Sarah Whitmee: Dispersal ability and ranges of mammals (Imperial College London, Silwood Park, 2012).
- Irina Lewinsky: Impact of climate change on species ranges, past and future (Copenhagen, Denmark, 2010).
- Anders Tøttrup: The impact of climate change on phenology in migratory birds (Copenhagen, Denmark, 2009).

Postdoctoral researchers:

18. Maíra Cardoso: Social-ecology of islands (since 2021).
17. Alke Voskamp: Site selection tools for conservation (since 2019)
16. Jörg Albrecht: Mutualistic plant-animal interaction networks along climatic and land-use gradients on Mt. Kilimanjaro (since 2017).
15. Dr. Katja Schiffers: Biodiversity modelling (2014 - 2018); present position: researcher at University of Bonn.
14. Dr. Diana Bowler: Cross-taxon analyses of long-term population trends under climate change (2014 - 2017); present position: interdisciplinary scientist at UK Centre for Ecology & Hydrology
13. Dr. Eike Lena Neuschulz: Ecosystem functions and services of birds (since 2011); present position: senior scientist at Senckenberg BiK-F.
12. Dr. Thomas Mueller: Movement ecology of birds (2011 - 2012); present position: professor at Senckenberg BiK-F and Goethe University.
11. Dr. Christian Hof: Macroecology of ecological niches, ranges and diversity of birds (since 2011); present position: Junior Research Group Leader, TU München.
10. Dr. Susanne Fritz: Evolution of avian diversity (2011 - 2014); present position: Leibniz professor at Senckenberg BiK-F and Goethe University.
9. Dr. Matthias Schleuning: Biotic interaction networks (2008 – 2009, since 2010); present position: senior scientist at Senckenberg BiK-F.
8. Dr. Marc Niggemann: Movement patterns and home-ranges of birds in relation to land-use (2009 - 2011); present position: School headmaster.
7. Dr. Monika Schwager: Modeling bird responses to climate and land-use change (2008 - 2011); present position: Senior Biometrician in medical research.
6. Dr. Nina Farwig: Influence of human disturbance on seed dispersal and forest regeneration in East African rain forests (2005 – 2007); present position: professor at Universität Marburg.

5. Dr. Hans-Christian Schaefer: Life-histories and migratory behavior of birds under different environmental scenarios (2004 – 2007); present position: abstractor at Deutsche Bundesstiftung Umwelt.
4. Dr. Gudrun Hilgerloh: Influence of the Atlas Mountains on the migration routes of Palearctic songbirds (2002 - 2004); present position: private researcher on bird ecology and migration.
3. Dr. Andreas Prinzing: Influence of disturbance on mutualistic animal-plant interactions (2002 – 2003); present position: professor at University of Rennes, France.
2. Dr. Bärbel Bleher: Human disturbance, seed dispersal and tree regeneration in Kakamega Forest, Kenya (2001 - 2004); present position: scientific organization, Karlsruhe Institute of Technology.
1. Dr. Eva Maria Griebeler: Individual-based modeling of the evolution of the clutch size of birds (2001 - 2003); present position: senior lecturer at University of Mainz.

Guest scientists:

6. Dr. Shan Huang (Alexander von Humboldt Postdoctoral Fellow; 2015-2017).
5. Prof. Catherine Graham, USA: Community phylogenetics (Mercator Fellowship, DFG, 2012).
4. Jaroslav Koleček, MSc, Czech Republic: Comparing and evaluating the efficiency of national legislations in protecting threatened European bird species (DBU stipend; 2011).
3. Jiří Reif, PhD, Czech Republic: Environmental change, traits, and population trends of German and Czech birds (DAAD stipend; 2009).
2. Prof. Ran Nathan, Israel: Gene dispersal and gene flow in tropical trees (Humboldt Foundation, Friedrich Wilhelm Bessel-Award; 2006).
1. Hernán Cofré, PhD, Chile: Traits and rarity of Chilean forest birds (DAAD stipend; 2004).

Activities at the science-society and science-policy interface

Political and societal recommendations

- Rat für Nachhaltige Entwicklung, Nationale Akademie der Wissenschaften Leopoldina (2021) *Klimaneutralität – Optionen für eine ambitionierte Weichenstellung und Umsetzung*. **K. Böhning-Gaese** member of working group.
- Nationale Akademie der Wissenschaften Leopoldina (2021) *Den offenen Zugang zu Digitalen Sequenzinformationen erhalten - Multilateraler Vorteilsausgleich und offene Wissenschaft*. **K. Böhning-Gaese** member of working group.
- G7-Science Academies Statement (2021): *Reversing biodiversity loss – the case for urgent action*. G7 Summit, Cornwall. **K. Böhning-Gaese** member of working group.
- Nationale Akademie der Wissenschaften Leopoldina, acatech – Deutsche Akademie der Technikwissenschaften, Union der deutschen Akademien der Wissenschaften (2020): *Biodiversität und Management von Agrarlandschaften – Umfassendes Handeln ist jetzt wichtig*. Halle, Saale. **K. Böhning-Gaese** spokesperson of working group.
- G7-Science Academies Statement (2020): *Global Insect Declines and the Potential Erosion of Vital Ecosystem Services*, G7 Summit, Washington. **K. Böhning-Gaese** member of working group.
- German National Academy of Sciences Leopoldina, acatech – National Academy of Science and Engineering, Union of German Academies of Sciences and Humanities (2018): *Species decline in the agricultural landscape: What do we know and what can we do?* Halle, Saale. **K. Böhning-Gaese** spokesperson of working group.

Publications at the science-policy and science-society interface

- **Böhning-Gaese, K.**, A.-M. Klein, S. Lakner, and R. Seppelt (2021): Gemeinsam Lösungen finden. Der Schutz der Biodiversität und das Management von Agrarlandschaften brauchen wissenschaftliche Evidenz und Dialog, nicht Polarisierung. Eine Entgegnung. *DLG-Mitteilungen* 11: 74-75.
- **Böhning-Gaese, K.** (2021): Ist die biologische Vielfalt verloren? Was wir wissen und was wir tun können. *Forschung & Lehre* 5|21, p. 352-354.
- **Böhning-Gaese, K.** (2021): Ein gesellschaftliches Umdenken ist nötig. *Ökologie & Landbau* 1: S. 42-44.
- **Katrin Böhning-Gaese** member of editorial team for “*Leitbild Leibniz-Wissenstransfer*” (2019). Leibniz Gemeinschaft.
- Kühn, I., S. Pompe, S. Trautmann, **K. Böhning-Gaese**, F. Essl, and W. Rabitsch (2013): Klimawandeleffekte morgen: Was könnte noch kommen? In: Essl, F., Rabitsch, W., (Eds.): *Biodiversität und Klimawandel - Auswirkungen und Handlungsoptionen für den Naturschutz in Mitteleuropa*. Springer: 86-101.
- Vohland, K., F. Badeck, **K. Böhning-Gaese**, G. Ellwanger, J. Hanspach, P. L. Ibisch, S. Klotz, S. Kreft, I. Kühn, E. Schröder, S. Trautmann, and W. Cramer (eds) (2013): Schutzgebiete Deutschlands im Klimawandel – Risiken und Handlungsoptionen. Ergebnisse eines F+E-Vorhabens (FKZ 806 82 270). *Naturschutz und Biologische Vielfalt*, Heft 129, Bundesamt für Naturschutz.
- Vohland, K., **K. Böhning-Gaese**, G. Ellwanger, J. Hanspach, P. L. Ibisch, S. Klotz, S. Kreft, I. Kühn, and E. Schröder (2013): Schutzgebiete als Inseln im Klimastress? – Einleitung und Projektbeschreibung. P. 13-30 in: *Naturschutz und Biologische Vielfalt* 129, Bundesamt für Naturschutz.
- Trautmann, S., I. Laube, M. Schwager, and **K. Böhning-Gaese** (2013): Sind Vögel vom Klimawandel gefährdet? – Modellierung des Einflusses des Klimawandels auf Vögel. P. 103 – 121 in: *Naturschutz und Biologische Vielfalt* 129, Bundesamt für Naturschutz.
- Vohland, K., S. Kreft, P. L. Ibisch, I. Kühn, F. Badeck, **K. Böhning-Gaese**, J. Hanspach, S. Klotz, S. Trautmann, W. Cramer, and G. Ellwanger (2013): Fazit und Ausblick. P. 219 - 230 in: *Naturschutz und Biologische Vielfalt* 129, Bundesamt für Naturschutz.
- Trautmann, S., S. Lötters, J. Ott, J. Buse, K. Filz, D. Rödder, N. Wagner, A. Jaeschke, U. Schulte, M. Veith, E.-M. Griebeler, and **K. Böhning-Gaese** (2012) *Auswirkungen auf geschützte*

und schutzwürdige Arten. P. 260 – 289 in: V. Mosbrugger, G. P. Brasseur, M. Schaller, and B. Stribny (eds.) *Biodiversität und Klimawandel – Folgen für Deutschland*. Wissenschaftliche Buchgesellschaft, Darmstadt.

- Vohland, K., S. Kreft, F.-W. Badeck, **K. Böhning-Gaese**, W. Cramer, J. Hanspach, P. L. Ibisch, S. Klotz, I. Kühn, and S. Trautmann (2012) Spotlights on risks and policy options for Germany's protected areas under climate change. P. 67-68 in: H. Korn, K. Kraus, and J. Stadler (eds.) *Proceedings of the European Conference on Biodiversity and Climate Change – Science, Practice and Policy. BfN Skripten 310*, Bundesamt für Naturschutz.
- Streit, B., **K. Böhning-Gaese**, and V. Mosbrugger (2011): Eine globale Herausforderung und ein Forschungszentrum. *Biodiversität und Klima: Wandel in vollem Gange! Biologie in unserer Zeit* 41 (4): 248-255.
- Vohland, K., F. Badeck, **K. Böhning-Gaese**, J. Hanspach, S. Klotz, I. Kühn, I. Laube, M. Schwager, S. Trautmann, and W. Cramer (2011): Schutzgebiete im Klimawandel – Risiken für Schutzgüter. *Natur und Landschaft* 85: 204-213, Bundesamt für Naturschutz.
- Vohland, K., F. Badeck, **K. Böhning-Gaese**, J. Hanspach, P. Ibisch, S. Klotz, S. Kreft, I. Kühn, S. Trautmann, and W. Cramer (2010): Schutzgebiete Deutschlands im Klimawandel – Risiken und Handlungsoptionen. P. 21-22 in C. Eppele, H. Korn, K. Kraus, and J. Stadler (eds.): *Biologische Vielfalt und Klimawandel. BfN-Skripten 274*, Bundesamt für Naturschutz.
- Trautmann, S., **K. Böhning-Gaese**, I. Laube, F. Badeck, and M. Schwager (2010): Auswirkungen des Klimawandels auf Vögel. *Naturschutz und Biologische Vielfalt* 95: 149-160, Bundesamt für Naturschutz.
- **Böhning-Gaese, K.**, and S. Klimpel (2010): Wie ändert sich die Artenvielfalt? *Natur und Museum* 140: 232-233.
- Vohland, K., F. Badeck, **K. Böhning-Gaese**, A. Holstein, J. Hanspach, P. Ibisch, S. Klotz, S. Kreft, I. Kühn, I. Laube, A. Popp, and W. Cramer (2009): Ergebnisse aus dem Forschungsprojekt: "Schutzgebiete und Klimawandel"– ein Überblick über das Forschungsvorhaben Biodiversität und Klima - Vernetzung der Akteure in Deutschland IV, Insel Vilm, 14.-17.10.2007, *BfN-Skripten 246*, Bundesamt für Naturschutz, Bonn - Bad Godesberg, S. 9-10.
- **Böhning-Gaese, K.**, and S. Trautmann (2008): Neue Vögel aus dem Süden. *Der Falke* 55: 310-315.
- Farwig, N., and **K. Böhning-Gaese** (2008): Biologische Vielfalt in Ostafrika: Folgen von Landnutzung und Klimawandel. *Natur & Geist: Forschungsmagazin der Johannes Gutenberg-Universität Mainz* 1/2008: 70-73.
- Schaefer, H.-C., G. W. Eshiamwata, F. B. Munyekenye, and **K. Böhning-Gaese**: Tropical and temperate birds: What is the difference in raising young? *Kenya Birds* 11: 9-12.
- Badeck, F. W., **K. Böhning-Gaese**, W. Cramer, P. L. Ibisch, S. Klotz, S. Kreft, I. Kühn, K. Vohland, and U. Zander (2007): Schutzgebiete Deutschlands im Klimawandel – Risiken und Handlungsoptionen. *Naturschutz und Biologische Vielfalt* 46: 149-165, Bundesamt für Naturschutz.
- **Böhning-Gaese, K.** (2003): Zugvögel - Tropische Gäste im Abwind. *Biologenheute, Mitteilungen des Verbandes Deutscher Biologen und biowissenschaftlicher Fachgesellschaften* 4_2003: 2-9.
- **Böhning-Gaese, K.** (2000): What makes temperate and tropical warblers tick? *Kenya Birds* 8: 19-20.
- **Böhning-Gaese, K.**, and H.-G. Bauer (1998/1999): Änderungen in Häufigkeit, Verbreitung und Diversität der Brutvögel am Bodensee zwischen 1980-81 und 1990-92. In: G. Heine, H. Jacoby, H. Leuzinger, and H. Stark (eds.): *Die Vögel des Bodenseegebietes. Ornithologische Jahreshefte für Baden-Württemberg* 14/15: 33-52.
- **Böhning-Gaese, K.** (1998): Folgerungen für den Naturschutz aus langjährigen Vogelzählungen. P. 377-391 in: R. Dröschmeister and H. Gruttke (eds.): *Die Bedeutung ökologischer Langzeitforschung für Naturschutz. Schriftenreihe für Landschaftspflege und Naturschutz* 58, Bundesamt für Naturschutz, Bonn-Bad Godesberg, 435 S.

Public lectures and contribution to public debates

- Panel discussion *KfW Zukunftstag* (2023)
- Keynote talk on “Valuing and protecting biodiversity”, *Digisustain Conference*, Frankfurt (2023)
- Keynote talk and panel discussion “Raubbau an Gottes Garten”, *Kirchentag Nürnberg* (2023)
- Plenary talk at Landfrauentag, *Hessentag*, Pfungstadt (2023)
- Panel discussion, Nachhaltigkeitsdialog 2023, *Leopoldina* (2023)
- Plenary talk, Wissenschaft im Sauriersaal, *Museum für Naturkunde*, Berlin (2023)
- Keynote talk, *BfN Gartengespräch*, Zoologischer Garten Leipzig (2023)
- Movie night „Heimat Natur“, *FEaA, Senckenberg Frankfurt* (2023)
- Keynote talk, “*Food for Biodiversity*”, Biodiversität im Lebensmittelsektor, Frankfurt (2023)
- Scientific reading, “Vom Verschwinden der Arten”, *Urania Berlin* (2023)
- Scientific reading, „Vom Verschwinden der Arten“, *Senckenberg Museum* (2023)
- Panel discussion, „Vom Verschwinden der Arten“, *Leipzig Book Fair* (2023)
- Panel discussion on “Biodiversity”, Klimabuchmesse, *Leipzig Book Fair* (2023)
- Plenary talk, „Bedrohte Biodiversität: Wie werden wir natur-positiv?“ *KfW Managementtag* (2023)
- Plenary talk, „Biosphäre am Limit – unsere gemeinsame Verantwortung“, *Senckenberg* (2023)
- Plenary talk, *Die Familienunternehmer*, Frankfurt (2022)
- Keynote talk at “Bio ist die Antwort – Kongress 40 Jahre Naturland“, *Naturland*, Berlin (2022)
- Keynote talk and member of panel discussion on “Biodiversität verstehen und priorisieren!”, *Haus am Dom*, Frankfurt (2022)
- Keynote talk in reflection week “Biodiversity – the other ecological crisis”, *Taizé* (2022).
- Keynote talk at panel discussion on "monitoring of environmental dependencies, risks and impact, *1st Sustainability Standards Watchers Conference*, Frankfurt (2022)
- Keynote talk at panel discussion on “Biodiversität – Vom Wert der Vielfalt“, *Katholikentag*, Stuttgart (2022)
- Member of panel discussion on „Planetares Denken“, *Salon Sophie Charlotte, Berlin-Brandenburgische Akademie der Wissenschaften* (2022)
- Member of panel discussion on „Naturbasierte Lösungen für den Schutz von Klima und Artenvielfalt“, MfN Berlin (2022)
- Keynote talk, *Parlamentarischer Abend*, MfN Berlin, on “Auf dem Weg zur Weltnaturkonferenz – Wo stehen wir aus Sicht der Wissenschaft“ (2022)
- Plenary talk at *Königsteiner Forum* (2022)
- Plenary talk at *U3L, Goethe University and Scientists for Future* (2022)
- Keynote talk at panel discussion on “Biodiversität – Vom Wert der Vielfalt“ at *Katholische Akademie in Bayern* (2022)
- Plenary talk at *Senckenberg Förderverein* (2022)
- Plenary talk at *Konrad-Adenauer Stiftung* (2021)
- Plenary talk at *Volkshochschule Frankfurt am Main* (2021)
- Plenary talk at *Ornithologische Gesellschaft in Bayern* (2021)
- Member of panel discussion on “Wie retten wir die Artenvielfalt?“ *Leopoldina* (2021).
- Plenary talk at *Polytechnische Gesellschaft Frankfurt* (2021)
- Member of panel discussion, organized by *Goethe University* students, on “Klimawandel und Landnutzung” (2021)
- Member of panel discussion on “Biodiversität in der Krise?“ *Leopoldina* (2021)
- Plenary talk at *Staatliches Museum für Naturkunde Karlsruhe*, Karlsruhe (2020)
- Member of a panel discussion, organized by *Goethe University* students, on “Klimawandel – Sind wir noch zu retten?“ (2020)
- Member of panel discussion on “Making Crises Visible - Krise der Demokratie, *Goethe Bürgeruniversität* (2020)
- Keynote talk at final public debate of the „Semesterfrage: Wie schützen wir die Artenvielfalt?“ *University of Vienna* (2020).
- Member of panel discussion on “Wie wir das Artensterben verhindern können” *Wissenwerte, Konferenz für Wissenschaftsjournalismus*, Bremen (2019).
- Member of panel discussion on “Auswirkungen des Klimawandels auf unserer Natur“. *Heinz Sielmann Stiftung*, Frankfurt (2019).

- Member of panel discussion on “Wer beeinflusst die öffentliche Meinung? Deutungshoheit oder Definitionsmacht von Wissenschaft, Ökonomie und Kunst“. *Frankfurter Kunstverein* (2019).
- Plenary talk „Biodiversität und IPBES“ at “*Entwicklungspolitisches Forum*“ der KfW (2019).
- Member of panel discussion on “Diversity: Why does it matter?”. “*meConvention*“, Deutsches Filmmuseum, Frankfurt (2019)
- Plenary talk on “Artensterben: was wissen wir und was können wir tun?“ *Deutsche Bischofskonferenz* (2019).
- Plenary talk on “Artensterben und Klimawandel: Was wissen wir und was können wir tun?“ *Sommerempfang der Grünen*, Frankfurt (2019).
- Member of panel discussion on “Artenvielfalt, Landwirtschaft und Künstliche Intelligenz – wie geht das zusammen?“ (2019). *Leopoldina*, Halle.
- Member of panel discussion on nature conservation: “Warum handeln wir nicht, obwohl wir so viel wissen?“ (2019). *Senckenberg*.
- Member of panel discussion on “Klimaoase Frankfurt” (2018). *City of Frankfurt*.
- Member of panel discussion on “Rolle der Wissenschaft für unsere Zukunft” (2018). *Senckenberg*.
- Speaker on March for Science Frankfurt (2018).
- Member of panel discussion on “Biodiversität: Herausforderung und Chance für Politik und Gesellschaft” (2017). *Mainzer Academy of Sciences and Literature*.
- Member of panel discussion on “Chancen und Risiken der Digitalisierung” (2017). *Senckenberg*.
- Member of panel discussion on “Artenschutz in Frankfurt” (2017). *Frankfurter Rundschau*.
- Member of panel discussion on “Rolle der Forschungsmuseen für unsere Zukunft” (2017). *Leibniz Gemeinschaft*, Berlin.
- Plenary talk at *Arbeitskreis für Vogelkunde und Vogelschutz*, Stuttgart (2013)
- Plenary talk at *Züricher Botanische Gesellschaft*, Zürich (2012).
- Plenary talk at *Polytechnische Gesellschaft Frankfurt* (2012).
- Plenary talk at *Hessische Gesellschaft für Ornithologie und Naturschutz*, Hofheim (2011).
- Plenary talk at *NABU Rheinhessen-Nahe*, Ingelheim (2008).
- Plenary talk at *Arbeitsgruppe Artenschutz in Thüringen*, Bad Blankenburg (2006).
- Plenary talk at *Schülerforum Biologie*, Mainz (2004).
- Plenary talk at *Ornithologische Gesellschaft in Bayern*, München (2003).
- Plenary talk at *Rheinische Naturforschende Gesellschaft*, Mainz (2002).
- Plenary talk at *Naturschutzbund Deutschland*, Gut Sunder, Celle (1997).
- Plenary talk at *Landesbund für Vogelschutz in Bayern*, Lindenhof, Bayreuth (1996).

National Media interviews (selection, past 5 years)

- *SWR Leute*, „Biologin: So gefährlich ist Artensterben für die Menschheit“, SWR1 (2023)
- *Welt Interview*, „Viele Tiere und Pflanzen verschwinden unauffällig“ (2023)
- *zeit.online Interview*, „Zehn Prozent Deutschlands als Wildnis, das wünsche ich mir“ (2023)
- *Spiegel Interview*, „Das Artensterben gefährdet unseren Wohlstand“ (2022)
- *ARD Tagesschau*, 13.12.2022, „Katrin Böhning-Gaese zur Rolle des Artenschutzes“ (2022)
- *Stern Interview*, Ist das Massenaussterben zu stoppen? „Montreal hat eine immense Bedeutung, eine viel größere als die Klimakonferenz“ (2022)
- *ZDF, ZDFzeit*, TV-Sendung “*Artensterben in Deutschland – Die Fakten mit Kai Kupferschmidt*“ (2022)
- *ZDF, Terra-X - die Wissens-Kolumne*, „Warum Zugvögel Wächter für uns Menschen sind“ (2022)
- *Deutschlandfunk Kultur*, Radio-Sendung, „Verlust der Biodiversität. Schlimmer als die Klimakrise“ (2022)
- *Bild der Frau*, Die tun etwas! „Die Letzten ihrer Art und wie wir sie noch retten können! (2022)
- *ARD Tagesschau*, 10.10.2021, 20:15 Nachrichten, „Deutscher Umweltpreis: Auszeichnung für Arten- und Moorschutz“ (2021)
- *3sat NANO spezial vom 8. Oktober: 2021 zum Deutschen Umweltpreis* (2021)
- *1,5 Grad – der Klima-Podcast mit Luisa Neubauer*, „Was hat die Klimakrise mit der Pandemie zu tun?“ (2021)

- *tagesschau24.de*, TV-Sendung Nachrichten, „Vogelsterben auf dem Acker“ (2021)
- *zeit.online Interview* „Artenvielfalt: Wir brauchen die Natur zu unserem Glück“ (2021)
- *Deutschlandfunk Nova*, Radio-Sendung Hörsaal, „Vögel machen uns glücklich“ (2021)
- *DIE ZEIT Newsletter*, „3 ½ Fragen an Katrin Böhning-Gaese“ (2020)
- *ZDF*, TV-Sendung heute am Mittag, „Stellungnahme zur EU-Agrarpolitik“ (2020)
- *Süddeutsche Zeitung*, „Stellungnahme zu Agrarlandschaften: Überraschende Vehemenz“ (2020)
- *radioEins*, Radio-Sendung Die Profis, „Der Wert der Natur am Kilimandscharo“ (2020)
- *a tempo*, „Im Gespräch mit Katrin Böhning-Gaese: Vielfalt ist Leben“ (2019)
- *ZDF*, TV-Sendung planet e. „Artenschutz Extrem – Erhalt um jeden Preis?“ (2019)
- *Deutschlandfunk*, Radio-Sendung Forschung aktuell, „Leben im Jahr 2040: Vorm Kaffee noch kurz den Algenreaktor anwerfen“ (2019)
- *Frankfurter Allgemeine Zeitung*, „Earth Overshoot Day: Die Ressourcen sind aufgebraucht“ (2019)
- *Deutschlandfunk*, Radio-Sendung Zeitfragen, „Das Gefüge zerfällt“ (2018)
- *Deutschlandradio*, Radio-Sendung Forschung Aktuell, „Artensterben und Ökosysteme: Verlust der Artenvielfalt wie seit Jahrzehnten nicht mehr“ (2018)
- *hrinfo*, Radio-Sendung hr Funkkolleg, „Wem gehört die Natur?“ (2018)

Responsibility for museum exhibitions/galleries

- **“Bending the curve”**, Frankfurter Kunstverein (opening 10/2023), co-created with Franziska Nori, Director Frankfurter Kunstverein.
- **„Korallenriffe“** (2021), Senckenberg, in collaboration with Philippe Havlik, Stefanie Raddatz
- **„Flüsse“** (2021), Senckenberg, in collaboration with Stefanie Klein, Martin Cepek
- **“Tiefsee und Meeresforschung”** (2020), Senckenberg, in collaboration with Thorolf Müller, Martin Cepek
- **“BioKompass”** (2019), Senckenberg, in collaboration with Christina Höfling, Eva Roßmanith
- **“Faszination Vielfalt”** (2017), Senckenberg, in collaboration with Thorolf Müller, Martin Cepek.

Publications

h Factor 60 (Web of Science™ Core Collection), 12,182 citations,
h Factor 80 (Google Scholar), 19,164 citations, both 07.07.2023
ORCID identifier: 0000-0003-0477-5586; ResearcherID W-2601-2019

Theses:

- Böhning-Gaese, K.** (1999): Mikro- und makroökologische Ansätze zum Verständnis von Artengemeinschaften. Habilitation, Universität Tübingen.
- Böhning-Gaese, K.** (1993): Ursachen für langfristige Bestandsentwicklungen europäischer und nordamerikanischer Singvögel in kontinentalem Maßstab. PhD thesis, Universität Tübingen.
- Böhning-Gaese, K.** (1990): Zur Nahrungsökologie des Weißstorchs (*C. ciconia* L.) in Oberschwaben. Diploma thesis, Universität Tübingen.

Books:

K. Böhning-Gaese und F. Bauer (2023): Vom Verschwinden der Arten. Der Kampf um die Zukunft der Menschheit. Klett-Cotta Verlag, Stuttgart.

Publications and book chapters with peer-review:

230. Schleuning, M., J. Frund, O. Schweiger, E. Welk, J. Albrecht, M. Albrecht, M. Beil, G. Benadi, N. Bluthgen, H. Bruelheide, **K. Böhning-Gaese**, D. M. Dehling, C. F. Dormann, N. Exeler, N. Farwig, A. Harpke, T. Hickler, A. Kratochwil, M. Kuhlmann, and C. Hof (2023): Animal functional traits: Towards a trait-based ecology for whole ecosystems. *Functional Ecology* 37: 791-791. **[Impact factor 2021: 6.3]**
229. Martins, L. P. ..., **K. Böhning-Gaese**, ..., and J. M. Tylianakis (2022): Global and regional ecological boundaries explain abrupt spatial discontinuities in avian frugivory interactions. *Nature Communications* 13: 6943. **[17.7]**
228. Voskamp, A., C. Hof, M. F. Biber, **K. Böhning-Gaese**, T. Hickler, A. Niamir, S. G. Willis, and S. A. Fritz (2022): Projected climate change impacts on the phylogenetic diversity of the world's terrestrial birds: more than species numbers. *Proceedings of the Royal Society B*: 289: 20212184. **[5.5]**
227. Jetz, W., ..., **K. Böhning-Gaese**, ..., and C. Zook (2022): Biological Earth observation with animal sensors. *Trends in Ecology & Evolution* 37: 719-724. **[20.6]**
226. Tobias, J. A., ..., **K. Böhning-Gaese**, ..., and M. Schleuning (2022): AVONET: morphological, ecological and geographical data for all birds. *Ecology Letters* 25: 581-597. **[11.3]**.
225. Nowak, L., M. Schleuning, M. A. Bender, **K. Böhning-Gaese**, D. M. Dehling, S. A. Fritz, W. D. Kissling, T. Mueller, E. L. Neuschulz, A. L. Pigot, M. C. Sorensen, and I. Donoso (2022): Avian seed dispersal may be insufficient for plants to track future temperature change on tropical mountains. *Global Ecology and Biogeography* 31: 848-860. **[6.9]**
224. Ziegler, A., H. Meyer, I. Otte, M. K. Peters, T. Appelhans, C. Behler, **K. Böhning-Gaese**, A. Classen, F. Detsch, J. Deckert, C. D. Eardley, S. W. Ferger, M. Fischer, F. Gebert, M. Haas, M. Helbig-Bonitz, A. Hemp, C. Hemp, V. Kakengi, A. V. Mayr, C. Ngereza, C. Reudenbach, J. Roeder, G. Rutten, D. S. Schellenberger Costa, M. Schleuning, A. Ssymank, I. Steffan-Dewenter, J. Tardanico, M. Tschapka, M. G. R. Vollstaedt, S. Woellauer, J. Zhang, R. Brandl, and T. Nauss (2022): Potential of airborne LiDAR derived vegetation structure for the prediction of animal species richness at Mount Kilimanjaro. *Remote Sensing* 14: 786. **[5.3]**
223. Lehnen, L., U. Arbieu, **K. Böhning-Gaese**, S. Diaz, J. A. Glikman and T. Mueller (2022): Rethinking individual relationships with entities of nature. *People and Nature*: 4: 596-611. **[7.5]**
222. Vogeler, A. V. B., I. Otte, S. Ferger, M. Helbig-Bonitz, A. Hemp, T. Nauss, **K. Böhning-Gaese**, M. Schleuning, M. Tschapka, and J. Albrecht (2022): Associations of bird and bat species richness with temperature and remote sensing-based vegetation structure on a tropical mountain. *Biotropica* 54: 135-145. **[2.9]**
221. Wallis, C. I. B., Y. C. Tiede, E. Beck, **K. Böhning-Gaese**, R. Brandl, D. A. Donoso, C. I. Espinosa, A. Fries, J. Homeier, D. Inclan, C. Leuschner, M. Maraun, K. Mikolajewski, E. L. Neuschulz, S. Scheu, M. Schleuning, J. P. Suarez, B. A. Tinoco, N. Farwig, and J. Bendix

- (2021): Biodiversity and ecosystem functions depend on environmental conditions and resources rather than the geodiversity of a tropical biodiversity hotspot. *Nature Scientific Reports* 11: 24530 [5.0].
220. Mupepele, A. C., H. Bruelheide, C. Brühl, J. Dauber, M. Fenske, A. Freibauer, B. Gerowitt, A. Krüß, S. Lakner, T. Plieninger, T. Potthast, S. Schlacke, R. Seppelt, H. Stützel, W. Weisser, W. Wägele*, **K. Böhning-Gaese***, and A. M. Klein* (2021): Biodiversity in European agricultural landscapes: transformative societal changes needed. *Trends in Ecology & Evolution* 36: 1067-1070. *Shared last authorship of the three spokespersons of the working group. [20.6]
219. Albrecht, J., Peters, M., Becker, J. N., Behler, C., Classen, A., Ensslin, A., Ferger, S. W., Gebert, F., Gerschlaue, F., Helbig-Bonitz, M., Kindeketa, W. J., Kuehnel, A., Mayr, A. V., Njovu, H. K., Pabst, H., Pommer, U., Roeder, J., Rutten, G., Schellenberger Costa, D., Sierra-Cornejo, N., Vogeler, A., Vollstaedt, M. G. R., Dulle, H., Eardley, C. D., Howell, K. M., Keller, A., Peters, R. S., Kakengi, V., Hemp, C., Zhang, J., Manning, P., Mueller, T., Bogner, C., **Böhning-Gaese, K.**, Brandl, R., Hertel, D., Huwe, B., Kiese, R., Kleyer, M., Leuschner, C., Kuzyakov, Y., Nauss, T., Tschapka, M., Fischer, M., Hemp, A., Steffan-Dewenter, I., and M. Schleuning (2021): Species richness is more important for ecosystem functioning than species turnover along an elevational gradient. *Nature Ecology & Evolution* 5: 1582–1593. [19.1]
218. Langer, L., Burghardt, M., Borgards, R., **Böhning-Gaese, K.**, Seppelt, R., and C. Wirth (2021): The rise and fall of biodiversity in literature: A comprehensive quantification of historical changes in the use of vernacular labels for biological taxa in Western creative literature. *People and Nature* 3: 1093-1109. [7.5]
217. Byamungu, R. M., Schleuning, M., Ferger, Stefan W., Helbig-Bonitz, M., Hemp, A., Neu, A. Vogeler, A., **Böhning-Gaese, K.**, Tschapka, M., and J. Albrecht (2021): Abiotic and biotic drivers of functional diversity and functional composition of bird and bat assemblages along a tropical elevation gradient. *Diversity and Distributions* 27: 2344-2356. [5.7]
216. Methorst, J., A. Bonn, M. Marselle, **K. Böhning-Gaese**, and K. Rehdanz (2021): Species richness is positively related to mental health – A study for Germany. *Landscape and Urban Planning* 211: 104084. [8.1]
216. Dehling, D. M., Bender, I. M. A., Blendinger, P. G., **Böhning-Gaese, K.**, Muñoz, M. C., Neuschulz, E. L., Quitián, M., Saavedra, F., Santillán, V., Schleuning, M., and D. B. Stouffer (2021): Specialists and generalists fulfil important and complementary functional roles in ecological processes. *Functional Ecology* 35: 1810-1821. [6.3]
214. Marselle, M. R., T. Hartig, D. T. C. Cox, S. de Bell, S. Knapp, S. Lindley, M. Triguero-Mas, **K. Böhning-Gaese**, M. Braubach, P. A. Cook, S. de Vries, A. Heintz-Buschart, M. Hofmann, K. N. Irvine, N. Kabisch, F. Kolek, R. Kraemer, I. Markevych, D. Martens, R. Mueller, M. Nieuwenhuijsen, J. M. Potts, J. Stadler, S. Walton, S. Warber, and A. Bonn (2021): Pathways linking biodiversity to human health: A conceptual framework. *Environment International*: 150, 106420. [13.6]
213. Eyres, A., J. T. Eronen, O. Hagen, **K. Böhning-Gaese**, and S. A. Fritz (2021) Climatic effects on niche evolution in a passerine bird clade depend on paleoclimate reconstruction method. *Evolution* 75: 1046-1060. [4.2]
212. Methorst, J., K. Rehdanz, T. Müller, B. Hansjürgens, A. Bonn, and **K. Böhning-Gaese** (2021): The importance of species diversity for human well-being in Europe. *Ecological Economics* 181: 106917. [6.5]
211. Bendix, J., N. Aguire, E. Beck, A. Brauning, R. Brandl, L. Breuer, **K. Böhning-Gaese**, M. D. de Paula, T. Hickler, J. Homeier, D. Inclan, C. Leuschner, E. L. Neuschulz, M. Schleuning, J. P. Suarez, K. Trachte, W. Wilcke, D. Windhorst, and N. Farwig (2021): A research framework for projecting ecosystem change in highly diverse tropical mountain ecosystems. *Oecologia* 195: 589-600. [3.3]
210. Mallon, J. M., ..., **K. Böhning-Gaese**, ...and W. F. Fagan (2020): Diurnal timing of nonmigratory movements by birds: the importance of foraging spatial scales. *Journal of Avian Biology* 51: e02612. [2.2]
209. Vollstädt, M. G. R., J. Albrecht, **K. Böhning-Gaese**, A. Hemp, K. M. Howell, L. Kettering, A. Neu, E. L. Neuschulz, M. Quitián, V. E. Santillán, T. Töpfer, M. Schleuning, and S. A. Fritz (2020): Direct and plant-mediated effects of climate on bird diversity in tropical mountains. *Ecology and Evolution* 10: 14196-14208. [3.2]

208. Eyres, A., **K. Böhning-Gaese**, C. D. L. Orme, C. Rahbek, and S. A. Fritz (2020): A tale of two seasons: The link between seasonal migration and climatic niches in passerine birds. *Ecology and Evolution* 10: 11983-11997. [3.2]
207. Methorst, J., U. Arbieu, A. Bonn, **K. Böhning-Gaese**, and T. Mueller (2020): Non-material contributions of wildlife to human well-being: a systematic review. *Environmental Research Letters* 15: 093005. [6.9]
206. Muscarella, R., ..., **K. Böhning-Gaese**, ..., H. Balslev (2020): The global abundance of tree palms. *Global Ecology and Biogeography* 29: 1495-1514. [6.9]
205. Merges, D., J. Albrecht, **K. Böhning-Gaese**, M. Schleuning, and E.-L. Neuschulz (2020): Environmental context determines the limiting demographic process for plant recruitment across a species' elevational range. *Nature Scientific Reports* 10: 10855. [5.0]
204. Bowler, D. E., Bjorkman, A. D., Dornelas, M., Myers-Smith, I. H., Navarro, L., Niamir, A., Supp, S. R., Waldock, C., Winter, M., Vellend, M., Blowes, S. A., **Böhning-Gaese, K.**, Bruelheide, H., Elahi, R., Antao, L. H., Hines, J., Isbell, F., Jones, H. P., Magurran, A. E., Cabral, J. S. Bates, and E. Amanda (2020): Mapping human pressures on biodiversity across the planet uncovers anthropogenic threat complexes. *People and Nature* 2: 380-394. [7.5]
203. Dehling, D. M., G. Peralta, I. M. A. Bender, P. G. Blendinger, **K. Böhning-Gaese**, M. C. Muñoz, E.-L. Neuschulz, M. Quitián, F. Saavedra, V. Santillán, M. Schleuning, D. B. Stouffer (2020): Similar composition of functional roles in Andean seed-dispersal networks, despite high species and interaction turnover. *Ecology*: e03028. [6.4]
202. Schleuning, M., E.-L. Neuschulz, J. Albrecht, I. M. A. Bender, D. E. Bowler, D. M. Dehling, S. A. Fritz, C. Hof, T. Müller, L. Nowak, M. C. Sorensen, **K. Böhning-Gaese**, and W. D. Kissling (2020): Trait-based assessments of climate-change impacts on interacting species. *Trends in Ecology & Evolution* 35: 319-328. [20.6]
201. Phillips, A. G., T. Töpfer, **K. Böhning-Gaese**, and S. A. Fritz (2020): Rates of ecomorphological trait evolution in passerine bird clades are independent of age. *Biological Journal of the Linnean Society* 129: 543-557. [2.3]
200. Santillán, V., M. Quitián, B. A. Tinoco, E. Zárate, M. Schleuning, **K. Böhning-Gaese**, and E. L. Neuschulz (2020): Direct and indirect effects of elevation, climate and vegetation structure on bird communities on a tropical mountain. *Acta Oecologica* 102: 103500. [1.9]
199. Kattge, J., ..., **K. Böhning-Gaese**, ..., and C. Wirth (2020): TRY plant trait database – enhanced coverage and open access. *Global Change Biology* 26: 119-188. [13.2]
198. Bender, I. M. A., W. D. Kissling, **K. Böhning-Gaese**, I. Hensen, I. Kühn, L. Nowak, T. Töpfer, T. Wiegand, D. M. Dehling, and M. Schleuning (2019): Projected impacts of climate change on functional diversity of frugivorous birds along a tropical elevational gradient. *Nature Scientific Reports* 9: 17708. [5.0]
197. Bowler, D. E., H. Heldbjerg, A. D. de Jong, and **K. Böhning-Gaese** (2019): Long-term declines of European insectivorous bird populations and potential causes. *Conservation Biology* 33: 1120-1130. [7.6]
196. Nowak, L., W. D. Kissling, I. M. A. Bender, D. M. Dehling, T. Töpfer, **K. Böhning-Gaese**, and M. Schleuning (2019): Projecting consequences of global warming for the functional diversity of fleshy-fruited plants and frugivorous birds along a tropical elevational gradient. *Diversity and Distributions* 25: 1362-1374. [5.7]
195. Nandintsetseg, D., C. Bracis, K. A. Olson, **K. Böhning-Gaese**, J. M. Calabrese, B. Chimeddorj, W. F. Fagan, C. H. Fleming, M. Heiner, P. Kaczensky, P. Leimgruber, D. Munkhnast, T. Stratmann, and T. Mueller (2019): Challenges in the conservation of wide-ranging nomadic species. *Journal of Applied Ecology* 56: 1916-1926. [6.9]
194. Arbieu, U., M. Mehring, N. Bunnefeld, P. Kaczensky, I. Reinhardt, H. Ansoerge, **K. Böhning-Gaese**, J. A. Glikman, G. Kluth, C. Nowak and T. Müller (2019): Attitudes towards returning wolves (*Canis lupus*) in Germany: Exposure, information sources and trust matter. *Biological Conservation* 234: 202-210. [7.5]
193. Noonan, M. J., ..., **K. Böhning-Gaese**, ..., and J. M. Calabrese (2019): A comprehensive analysis of autocorrelation and bias in home range estimation. *Ecological Monographs* 89: UNSP e01344. [9.8]
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