

CURRICULUM VITAE

Name: Elisabeth Klara Viktoria KALKO
Born: April 10, 1962
Place: Berlin, Germany
Citizenship: german

Current positions:

Full professor, director of the Institute of Experimental Ecology, University of Ulm, Germany (since 2000)
Research Staff at the Smithsonian Tropical Research Institute, Republic of Panamá (since 2000)
Research Associate at the National Museum of Natural History, Washington DC, USA.

Current address:

Institute of Experimental Ecology
University of Ulm
Albert-Einstein Allee 11
89069 Ulm
E-mail: Elisabeth.Kalko@uni-ulm.de
Phone: 0049 (0)731 502 2660 / 2661

Degrees:

1981/82-1986: Biology (Diplom); University of Tübingen, Germany
1987 December: Diplom (equiv. to Masters); University of Tübingen, Germany
1991 June: PhD, summa cum laude; University of Tübingen, Germany
1999 July: habilitation; University of Tübingen, Germany

Academic honours:

2002-ongoing: elected member of the National Committee for Global Change Research in Germany
2004: elected member (for life) of the Heidelberger Academy of Science
2006: award for best university teaching in natural sciences (Landeslehrpreis) in the state of Baden-Württemberg, Germany
2005-ongoing: elected vice-president of the Society of Tropical Ecology (GTOE)
2008-ongoing: member of the senate commission "Biodiversity" of the German Science Foundation (DFG)
2008-ongoing: elected chair of DIVERSITAS Germany

Study and research grants (selection)

1984-1987 stipend of the German government for gifted students (Studienstiftung des Deutschen Volkes)
1988-1990 PhD stipend of the Studienstiftung des Deutschen Volkes
1991-1993 NATO post-doc stipend for research at the National Museum of Natural History, Smithsonian Institution, Washington, D. C. (USA) and at the Smithsonian Tropical Research Institute, Panama.
1993-1995 DFG (German Science Foundation) Mechanism maintaining tropical diversity (research group)
1996-1997 DFG Diversity, structure and dynamics of neotropical bats
1997-1999 DFG habilitation stipend to E. Kalko
1999 DFG Heisenberg stipend to E. Kalko
1999-2001 DFG Diversity, structure and dynamics of neo- and afrotropical bat assemblages (Chiroptera)
2003-2005 DFG Sensory ecology and signal plasticity of the long-legged bat, *Macrophyllum macrophyllum* (Phyllostomidae), foraging over water
2005-2007 DFG Land-bridge islands as model systems to determine fragmentation effects on the structure, diversity and dynamics of neotropical bat assemblages in Panama
2007-2011 DFG Chemical ecology of figs and fruit bats with M. Ayasse, University of Ulm, Germany
2001-2010 BMBF (Ministry of education and research) BIOTA (**B**iodiversity **T**ranssect **T**hrough **A**frica): The influence of local and regional factors on the diversity, structure, and function of West African bat communities; Human impact on diversity and functionality of bat communities in West Africa; Management concepts for sustainable land use based on functional biodiversity and priority setting for conservation
2006-longterm DFG Exploratories for large-scale and long-term functional biodiversity research

2007-2008 NGS (National Geographic Society) Fishing in the Sea of Cortez: echolocation and foraging behavior of the Mexican fishing bat, *Myotis vivesi*

2007-2008 CI (Conservation International) Development of a standardized monitoring protocol for Chiroptera (TEAM project)

2008-2011 EU (STREP 7) ChiRoPing: Developing versatile and robust perception using sonar systems that integrate active sensing, morphology and behaviour

2009-2012 DFG Calcium cycling in the soil-fig-bat compartment of a neotropical rain forest on spatially heterogeneous substrate with W. Wilcke, Bern, Switzerland

2010-2013 DFG Biodiversity and ecosystem functioning: birds and bats as seed dispersers and arthropod predators along an elevational gradient (part of research group "Kilimanjaro ecosystems under global change: Linking biodiversity, biotic interactions and biogeochemical ecosystem processes")

2010-2013 DFG Virus biology, host ecology, and human behaviour as determinants for coronaviral zoonoses (part of German-African cooperation projects in infectiology, with C. Drosten, University of Bonn, Germany)

Research interests

My research focuses on community ecology, sensory ecology, behavioral ecology, ecophysiology and diversity patterns of vertebrate assemblages, particularly in the species-rich tropics with a focus on bats (Chiroptera). I am particularly interested in functional diversity and the effects of changes in land use and climate change on biodiversity patterns and ecosystem services with the ultimate goal to feed the results of my studies into applied sciences, particularly into conservation biology and into the emerging field of zoonotic diseases with regard to wildlife and human health. Another focus of my research deals with sensory systems of bats with special emphasis on ecological and evolutionary aspects of their echolocation system and foraging strategies integrating multiple sensory cues, i.e., olfaction and vision. As a third cornerstone of my research I am concentrating bat-plant interactions, particularly frugivory and the adaptations between consumers/dispersers and plant traits. My study areas cover temperate zones, particularly Europe, and the tropics, mainly Central- and South America (Panama, Costa Rica, Mexico, Venezuela, Bolivia, Peru) and Africa (Tanzania, Benin, Ivory Coast, Ghana).