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## [Christian Kampichler](#) <sup>[1]</sup>



**Titel(s):**

Dr.

**afdeling:**

Onderzoek & Inventarisaties

**functie:**

Modelleur

**vestiging:**

Nijmegen

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**Expertise:**

I am a trained soil biologist and worked with microarthropods for many years, for example, by investigating mesofauna effects on microbiological activity in micro- and mesocosms, or determining patterns of local and regional diversity of surface-living Collembola. Since the late 90ies I broadened my expertise concerning ecological data analysis ("getting more out of the data") by applying methods loaned from artificial intelligence research, for example artificial neural networks or fuzzy rule-based models. During the last few years I focussed my interest on the analysis of demographic parameters and the modelling of distribution and abundance patterns of Dutch birds. Together with my colleagues from Sovon, I construct species distribution models (SDM) -- mainly applying boosted regression trees, multivariate adaptive regression splines, and random and quantile forests as modelling techniques -- and develop the R-package TRImmaps used for the automated generation of SDM and maps.

**CV:**

since 05/2012 Sovon Vogelonderzoek Nederland, Nijmegen, The Netherlands (scientific employee)

01/2010 – 05/2012 NIOO-KNAW, Wageningen, The Netherlands (scientific employee)

11/2003 – 12/2011 Universidad Juárez Autónoma de Tabasco, Villahermosa, Tabasco, Mexico (professor)

09/2003 – 10/2003 El Colegio de la Frontera Sur, Villahermosa, Tabasco, Mexico (scientific employee)

07/1998 – 09/2002 Free University of Berlin, Germany (scientific employee)

03/1996 – 06/1998 GSF National Research Centre for Environment and Health, Germany (scientific employee)

1992 – 1993, 1995 – 01/1996 University of Vienna, Austria (scientific employee)

1990 – 1991 University of Vienna, Austria (work contract)

1978-1987 Study of Biology (major: Zoology, minor: Botany) at the University of Vienna; Doctoral dissertation: Ecology of the animal community in the cushions of *Dianthus lumnitzeri* Wiesbaur 1886 in dry calcareous grassland in the Hainburg Mountains

**Publicaties:**

**Publications since 2005** (for older publications visit my [personal website](#) [3]):

Kampichler C, van der Jeugd HJ (2013) Determining patterns of variability in ecological communities: Time lag analysis revisited. - *Ecol Env Stat* 20, 271-284

González-Valdivia N, Ochoa-Gaona S, Ferguson BG, Pozo-de la Tijera C, Kampichler C, Pérez-Hernández I (2012) Análisis comparativo de la estructura y composición de comunidades arbóreas de un paisaje agropecuario en Tabasco, México. - *Revista Mexicana de Biodiversidad* 83, 83-99

- González-Valdivia NA, Arriaga-Weiss SL, Ochoa-Gaona S, Ferguson BG, Kampichler C, Pozo C (2012) Ensamblajes de aves diurnas a través de un gradiente de perturbación en un paisaje cultural en el sureste de México. - *Acta Zoológica Mexicana* (n.s.) 28, 237-269
- Kampichler C, van Turnhout CAM, Devictor V, van der Jeugd HP (2012) Large-scale changes in community composition: Determining land use and climate change signals. - *PLoS ONE* 7(4), e35272
- Kampichler C, van der Jeugd HP (2011) Monitoring passerine reproduction by constant effort ringing: evaluation of the efficiency of trend detection. - *Ardea* 99, 129-136
- González-Valdivia N, Ochoa-Gaona S, Pozo C, Ferguson BG, Rangel-Ruiz LJ, Arriaga-Weiss SL, Ponce-Mendoza A, Kampichler C (2011) Indicadores ecológicos para la evaluación de hábitat y su biodiversidad desde una perspectiva multitaxonómica en un paisaje neotropical. - *Rev Biol Trop* 59, 1433-1451
- Martínez-Sánchez JL, Kampichler C (2011) Ownership structure of protected areas influences the patterns of seed removal by mammals. - *Int J Biodivers Conserv* 3, 1-9
- Kampichler C, Calmé S, Weissenberger H, Arriaga-Weiss SL (2010) Indication of a species in an extinction vortex: The ocellated turkey on the Yucatan peninsula, Mexico. *Acta Oecologica* 36, 561-568
- Kampichler C, Wieland R, Calmé S, Weissenberger H, Arriaga-Weiss S (2010) Classification in conservation biology: a comparison of five machine-learning methods. - *Ecol Inf* 5, 441-450
- Ochoa-Gaona S, Kampichler C, de Jong BHJ, Hernández S, Huerta E, Geissen V (2010) A multi-criterion index for the evaluation of local tropical forest. - *Forest Ecol Manage* 260, 618-627
- Kampichler C, Hernández-Daumás S, Ochoa-Gaona S, Geissen V, Huerta E, de Jong B (2010) Indicators of environmentally sound land use in the humid tropics: the potential roles of expert opinion, knowledge engineering and knowledge discovery. - *Ecol Indic* 10, 320-329
- Huerta E, Kampichler C, Ochoa-Gaona S, de Jong BHJ, Geissen V, Hernández-Daumás S (2009) Towards an ecological index for tropical soil quality based on soil macrofauna. - *Pesq Agropec Bras* 44, 1056-1062
- Kampichler C, Bruckner A (2009) The role of microarthropods in terrestrial decomposition: a meta-analysis of 40 years of litterbag studies. - *Biol Rev* 84, 375-389
- Geissen V, Sánchez-Hernández R, Kampichler C, Ramos-Reyes R, Sepulveda-Lozada A, Ochoa-Gaona S, de Jong BHJ, Huerta-Lwanga E, Hernández-Daumás S (2009) Effects of land-use change on some properties of tropical soils — An example from Southeast Mexico. - *Geoderma* 151, 87-97
- Sobek S, Kampichler C, Weigmann G (2008) Diversity and distribution of oribatid mites (Acari, Oribatida) among tree-species and microhabitats in the canopy of a Central European mixed forest. in: Floren A, Schmiedl J (eds), *Canopy Arthropod Research in Central Europe — Basic and applied studies from the high frontier*. Bioform, Nürnberg, pp 339-354
- Wenkel K-O, Wieland R, Mirschel W, Schultz A, Kampichler C, Kirilenko A, Voinov A (2008) Regional Models of Intermediate Complexity (REMICs) - A New Direction in Integrated Landscape Modelling. - in: Jakeman AJ, Voinov AA, Rizzoli AE, Chen SH (eds), *Developments in Integrated Environmental Assessment Vol 3: Environmental Modelling, Software and Decision Support*. Elsevier, Amsterdam, pp 285-295

Kampichler C, Teschner M, Klein S, Körner C (2008) Effects of four years of atmospheric CO<sub>2</sub> enrichment on the abundance of leaf-galls and leaf-mines in mature oaks. - *Acta Oecol* 34, 139-146

Arriaga-Weiss S, Calmé S, Kampichler C (2008) Bird communities in rainforest fragments: Guild responses to habitat variables in Tabasco, Mexico. - *Biodiv Conserv* 17, 173-190

Niklaus PA, Alphei J, Kampichler C, Kandeler E, Körner C, Tschferko D, Wohlfender M (2007) Interactive effects of plant species diversity and elevated CO<sub>2</sub> on soil biota and nutrient cycling. - *Ecology* 88, 3153-3163

Geissen V, Kampichler C, López-de Llergo- Juárez JJ, Galindo-Acántara A (2007) Superficial and subterranean soil erosion in Tabasco, tropical Mexico: Development of a decision tree modeling approach. - *Geoderma* 139, 277-287

Žnidaršič M, Jakulin A, Džeroski S, Kampichler C (2006) Automatic construction of concept hierarchies: The case of foliage-dwelling spiders. - *Ecol Model* 191, 144-158

Kampichler C, Geissen V (2005) Temporal predictability of soil microarthropod communities in temperate forests. - *Pedobiologia* 49, 41-50

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