



## Dr. Wiebke Kämper

### Marie Skłodowska-Curie Fellow at Functional Agrobiodiversity

My research focuses on pollination biology and plant reproductive performance. My main research goal is to identify innovative strategies to sustainably increase food production.

My past research was focusing on crop reproductive performance, the importance of pollen genotypes, and the implications of pollen limitation for crop production and quality. I performed genetic analyses using various genetic tools, measured fruit quality and shelf life, and developed models that non-destructively predict postharvest properties.

Within my interdisciplinary Marie Skłodowska-Curie Postdoctoral Fellowship ECO-INTENS-HORT, I create a mechanistic understanding of the extent to which agrobiodiversity affects pollen flow in a horticultural crop, as pollen flow determines yield and nutritional quality in many tree crops. Furthermore, I explore relationships between functional diversity, ecosystem services and genotype-specific traits, and utilise the created knowledge for ecological intensification by providing practical, science-based recommendations.

### [Publication list](#)

#### Academic CV

**since 2023** Marie Skłodowska-Curie Postdoctoral Fellow at the Functional Agrobiodiversity group, University of Göttingen, Göttingen, Germany

**2022-2023** Research Fellow at the Institute for Bee Protection, Julius Kühn-Institute, Braunschweig, Germany

**2019-2022** Research Fellow at the Centre for Planetary Health and Food Security, Griffith University, Nathan (QLD), Australia

**2018-2019** Postdoctoral Research Fellow at GeneCology, University of the Sunshine Coast, Sippy Downs (QLD), Australia

**2017-2018** Gateway Fellow at GeneCology, University of the Sunshine Coast, Sippy Downs (QLD), Australia

**2017-2017** Postdoctoral Research Fellow at Ecological Networks, Technical University of Darmstadt, Darmstadt, Germany

**2012-2016** PhD Candidate at the Department of Animal Ecology, Evolution and Biodiversity, Ruhr-University Bochum, Bochum, Germany

#### Education

**2016** PhD (Dr. rer. nat.) at the Ruhr-University Bochum; »Bumblebees in agricultural landscapes in Central Europe: colony performance, floral resource use and pathogen load«

**2011** Research Master of Science in Biology (Evolution, Biodiversity and Conservation) at the University of Leiden, the Netherlands; Thesis 1 »Non-learned perceptual preference for universal note types in zebra finches (*Taeniopygia guttata*)«; Thesis 2 »Behavioural responses of a dasyurid predator (*Antechinus flavipes*) to the toxic cane toad (*Rhinella marina*)« completed at the University of Sydney, Sydney, Australia

**2009** Bachelor of Science in Environmental Sciences at the Leuphana University, Lüneburg, Germany

#### Fellowships and Research Funding

**2023 – 2025** EU Marie Skłodowska-Curie Postdoctoral Fellowship; [ECO-INTENS-HORT: Ecological intensification in horticulture: Increasing crop quantity and quality by understanding relationships between functional diversity, ecosystem services and genotype-specific traits](#)

**2021 – 2022** SAMAC research grant (Macadamias South Africa NPC); »Assessing levels of self-paternity and cross-paternity in international macadamia orchards«; Grantees: Mike Allsopp, Stephen Trueman, Wiebke Kämper, Kobus Visser

**2017 – 2018** DFG Gateway Fellowship; »Cross-pollination in avocado and macadamia orchards - the role of introduced and wild bees and the implications for fruit set and fruit characteristics«



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