

Eva Katharina Engelhardt

Doctoral Researcher

Curriculum Vitae

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In my research, I analyse large, heterogeneous datasets on species occurrences and traits in "R", especially using occupancy-detection models, trait analyses, and species distribution models.

Academic Education

08.2018 – 04.2023* **PhD student** in Ecology and Biogeography,
Technical University of Munich, Germany
"Long-term occupancy trends across three insect taxa and their relationship with potential drivers"
10.2015 – 05.2018 **M.Sc.** Ecology and Evolution
Goethe-Universität Frankfurt am Main, Germany
10.2011 – 09.2015 **B.Sc.** Biosciences
Ruprecht-Karls-Universität Heidelberg, Germany

Award: Master-award 2018 of The Ecological Society of Germany, Austria and Switzerland (GfÖ)

Publications

Engelhardt et al. (2023) European Habitats Directive has fostered monitoring but not prevented species declines. *Conservation Letters*, 1-10, doi.org/10.1111/conl.12948
Engelhardt et al. (2022) Consistent signals of a warming climate in occupancy changes of three insect taxa over 40 years in central Europe. *Global Change Biology*, 28, 3998-4012, doi.org/10.1111/gcb.16200
Engelhardt et al. (2019) Ignoring biotic interactions overestimates climate change effects: The potential response of the spotted nutcracker to changes in climate and resource plants. *Journal of Biogeography*, 47, 143-154, doi.org/10.1111/jbi.13699
Leitão, ... **Engelhardt** et al. (2019) Macroecology as a hub between research disciplines: Opportunities, challenges and possible ways forward. *Journal of Biogeography*, 47, 13-15, doi.org/10.1111/jbi.13751
Hof, ... **Engelhardt** et al. (2018) Bioenergy cropland expansion may offset positive effects of climate change mitigation for global vertebrate diversity. *Proceedings of the National Academy of Sciences*, 115, 13294-13299, doi.org/10.1073/pnas.1807745115
Engelhardt & Wink (2016) Hatte die Usutu-Virus-Epidemie von 2011 und Folgejahren einen Einfluss auf die Brutbestände ausgewählter Vogelarten in Nordbaden? *Ornithologisches Jahressheft Baden-Württemberg*, 32, 19-26, www.ogbw.de/images/ogbw/files/orn_jh/32/32_02_Engelhardt.pdf

Invited talks

2022 - Bavarian Environmental Agency (Bayerisches Landesamt für Umwelt), Augsburg
- Satellite-Symposium Facets of Biodiversity, 114th meeting of the German Zoological Society (DZG), Bonn
2020 - Lecture series Planet Earth 3.0, Greifswald (online)
- Seminar series Prof. Florian Hartig, Regensburg (online)
- sMon 4th Workshop, iDiv, Leipzig

International Conference Talks

- 2022 - SFE² GfÖ EEF Joint meeting, Int. Conference on Ecological Sciences, Metz, France
- 10th Biennial conference of the International Biogeography Society, Canada (online)
- 2021 - Early Career Biogeographers Conference, International Biogeography Society (online)
- Annual Meeting of the BES's macroecology and macroevolution group (online)
- 2019 - Species on the Move International Conference Series, Kruger National Park, South Africa
- 9th Biennial conference of the International Biogeography Society, Málaga, Spain

National Conferences (Germany)

- 2021 - 50th Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (GfÖ) (Poster, online)
- 2020 - 15th Young Modellers in Ecology workshop (talk online)
- 14th annual meeting of the specialist group Macroecology of the Ecological Society of Germany, Austria, and Switzerland (GfÖ), Konstanz (talk)
- 2019 - 49th Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (GfÖ), Münster (talk)
- 13th annual meeting of the specialist group Macroecology of the Ecological Society of Germany, Austria, and Switzerland (GfÖ), Würzburg (Poster)

Teaching activities

Main supervisor of two Master theses, co-supervision of multiple Master and Bachelor theses

Lecturer: M.Sc., biodiversity basics, paper discussions

M.Sc., introduction to ecological modelling, Species Distribution Models

B.Sc., basic zoology and functional diversity of native birds and mammals

Mini Workshop for PhD and Master students: SDM Basics BIOMOD2 at the 15th Young Modellers in Ecology workshop (online)

Research assistant tutoring several courses on native animal biodiversity, morphology, evolution

Outreach activities

- 2022 - Television and radio interviews on Engelhardt et al. (2022)
- Public Climate Lecture and Discussion
- 2015, '16, 17 - Course leader, annual two-weeks summer school for pupils, course on biodiversity and climate change, independent conception and management
- 2012-2017 - Guiding tours for all ages through the Zoo Heidelberg, teaching units, holiday programs for children (mostly ages 5-14)

Administrative experiences

International workshop organization 2018 at Senckenberg Biodiversity&Climate Research Centre

Skills

Languages: German [native speaker], English [fluent speaker and scientific English], Russian [basic]

Programming: R [data analyzation, harmonization, visualization], GitHub [version control], Julia [basic]

Statistics: Bayesian Occupancy-detection models, Species Distribution Models, Generalized Linear Mixed-Effects Models (Bayesian and classical inference)

Field ornithology: breeding bird surveys 2014-2016, island migratory birds and waterbirds monitoring Feb.-May 2016, recreational birding

Agile project management, SCRUM [basic]

* including parental leave 09.2020-04.2021