

# LENNART GRIES

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## EDUCATION

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| <b>PhD</b> | Senckenberg Biodiversity and Climate Research Centre SBIK-F<br>Frankfurt am Main and Goethe University Frankfurt am Main<br>“The role of omnivores for food web rewiring under global change”<br>Advisor: Dr. Jörg Albrecht                                   | Ongoing      |
| <b>MS</b>  | Goethe University Frankfurt am Main, <u>Ecology and Evolution</u><br>Thesis: “Climate change and ectotherms – How rising temperatures<br>might elevate rates of evolution”<br>Advisor: Prof. Susanne Fritz & Prof. Markus Pfenninger                          | 2020 to 2023 |
| <b>BS</b>  | Goethe University Frankfurt am Main, <u>Biological Sciences</u><br>Thesis: “Molecular phylogenetic analysis of Anthozoa-associated<br>crabs in the genera <i>Lybia</i> , <i>Polydectus</i> and <i>Cymo</i> ”<br>Advisor: Prof. Axel Janke & Dr. Maria Nilsson | 2016 to 2020 |

## RESEARCH EXPERIENCE

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| <b>Senckenberg Biodiversity and Climate Research Centre (SBIK-F),<br/>Frankfurt am Main</b><br><b>Research assistant</b> , Prof. Susanne Fritz | 2022 to 2023 |
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- collecting and categorizing fossil data from primary literature

**Senckenberg Biodiversity and Climate Research  
Centre (SBIK-F) & LOEWE Centre for translational biodiversity  
genomics (LOEWE TBG),  
Frankfurt am Main  
Research assistant, Prof. Axel Janke & Dr. Maria Nilsson**

2020 to 2021

- dating the emergence of mutualism in polydectine crabs using phylogenetic analyses

## **TEACHING EXPERIENCE**

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**Goethe University, Frankfurt am Main**  
**Teaching assistant, Department of Ecology and Evolution**

June 2022; June 2023

- “Community ecology, movement ecology and macroecology”, undergraduate course covering a variety of ecologic topics focusing on statistical approaches and the programming language R
- Assisted students in learning R and applying statistical tests to solve ecological problems

**Goethe University, Frankfurt am Main**  
**Teaching assistant, Department of Bioscience Education**

December 2019 to February 2020

- “Structure and function of organisms: Animals”, undergraduate course teaching students about the basic physiology of a variety of animals
- Assisted students in dissecting animals and familiarizing themselves with the general structure of organs and their function, concluded in qualification as a student tutor

## **PUBLICATIONS**

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### *Publications*

**Gries, L.**, Paule, J., Sonnewald, M. & Nilsson, M. A. Eocene origin of anemone-carrying behaviour in polydectine crabs (Brachyura: Xanthidae). *Zoological Journal of the Linnean Society* zlad075 (2023) doi:[10.1093/zoolinnea/zlad075](https://doi.org/10.1093/zoolinnea/zlad075).

### *Journal Papers pending*

Untitled publication of master’s thesis about the effects of climate change on population structure and evolution of ectothermic animals, in process

## LANGUAGES

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**German:** Native Language

**English:** Advanced reading, listening, speaking and writing skills (TOEFL iBT: 119 out of 120 possible points)

**Latin:** Latinum certificate awarded after six years of studying

## GENERAL SKILLS

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**In-vitro:** laboratory experience with multiple sequencing approaches, including third generation sequencing, meta-barcoding and more basic practices (DNA extraction, PCR, ...)

**In-silico:** general experience in data collection, processing and analysis (f.e. spatial data, climate data, demographic data, sequencing data, genomic data...)

**In-vivo:** basic experience in fieldwork, sampling schemes, experimental design, etc.

**Programming:** proficiency in R, experience with GNU Bash

**Statistical approaches:** general proficiency with multiple forms of models (f.e. species distribution models, population models, GAMs, ...) and statistical tests, experience with methods of maximum likelihood and Bayesian inference in phylogenetic reconstruction

**Others:** advanced experience with macroecology and genomics, intermediate experience with animal physiology, paleontology and conservation biology, novice experience with neurosciences

## COMMUNITY SERVICE

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### **Refugee shelter “Bretzenheimer Straße”**

Volunteer: assisting families with finding legal help and refugee children with schoolwork and learning German, Mainz, Germany, 2015 to 2016

### **Chainreaction**

Volunteer: working in soup kitchens, retirement homes and sending books to prisoners, Pensacola, Florida, United States of America, 2014

## REFERENCES

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**Prof. Dr. Susanne Fritz,**

Institute of Geosciences

Goethe University Frankfurt am Main

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**Prof. Dr. Markus Pfenninger,**

Institute of Organismic and Molecular Evolutionary Biology

Johannes Gutenberg-University Mainz

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