

# Zhehao Hu

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## EDUCATION

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### UNIVERSITY OF HAMBURG

Hamburg, Germany

*Master of Science in Biology*

10/2023 - 11/2025

#### Courses

- Marine Deep-Sea Benthic Habitats and Biodiversity
- Community Ecology
- Evolutionary Systematics
- Network Analysis in Ecology and Beyond
- Molecular Parasitology (offered by BNITM)
- Cellular and Molecular Immunology (offered by BNITM)

#### Courseworks

- Influence of Microhabitats on Tadpole Composition in Ranomafana, Madagascar
- Big Stew: Microbial Community Difference Along Water Columns in Mediterranean Sea

**Thesis:** Effects of adult mobility in biogeographic pattern of deep-sea isopods (Arthropoda: Crustacea)

- Supervisor: Prof. Dr. Saskia Brix

### UNIVERSITY OF HAMBURG

Hamburg, Germany

*Bachelor of Science in Biology*

10/2020 - 3/2024

#### Courses

- Biological Oceanography and Fisheries Science
- Methods of Open Field Ecology
- Biodiversity of Fungi
- Introduction of Geographic Information System
- Molecular Methods of Animal Physiology
- Data Analysis in Ecology with R

#### Courseworks

- Gradient Analysis of Floodplain Grassland: Species Composition (German)
- Understanding Hemocyanin Evolution Using Molecular and Biochemical Methods (German)

**Thesis:** Various *Wolbachia* communities in the female-biased flea beetle *Altica lythri* (Coleoptera: Chrysomelidae)

- Supervisor: Prof. Dr. Susanne Dobler, Dr. Kim Rohlfing

## EXPERIENCE

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### RESEARCH ASSISTANT

01/2025 - Present

*German Centre for Marine Biodiversity Research (DZMB)*

Hamburg, Germany

- Biogeographic analysis of the deep-sea isopod genus *Acanthocope*
- Species description of *Acanthocope* sp. nov.

### ONBOARD TAXONOMIST

02/2025 - 03/2025

*Ocean Census*

*R/V Falkor (too)*

- Assisted ROV operation and sampling preservation during the expedition Ocean Census GoSouth: Searching for New Species in South Sandwich Islands (FKt250220)
- Onboard as Ocean Census Taxonomist with focus on Isopods.

**RESEARCH ASSISTANT INTERNSHIP**

10/2024 - 12/2024

*German Centre for Marine Biodiversity Research (DZMB)*

Hamburg, Germany

- Species delimitation analysis of Atlantic *Acanthocope* (Isopoda: Asellota: Munnopsidae) with specimens collected from expeditions IceAGE3 (2020), IceDivA1 (2021), IceDivA2 (2021).
- Integrative taxonomy approach combining morphology (bright-field microscopy, CLSM), genetics (DNA barcoding), and proteomics (MALDI-TOF) to assess biogeographic pattern.

**RESEARCH ASSISTANT**

07/2024 - Present

*University of Hamburg, Group Neurophysiology*

Hamburg, Germany

- Assisted genotyping of the experimental animals.

**STUDENT ASSISTANT**

08/2023 - 03/2024

*University of Hamburg, Group Molecular Evolutionary Biology*

Hamburg, Germany

- Assisted DNA/RNA-extraction and laboratory organization.
- Developed novel protocols for rapid and bulk extraction of DNA or RNA.

**LABORATORY TECHNICIAN**

06/2023 - 07/2023

*Eurofins BioTesting Service Nord GmbH*

Hamburg, Germany

- Operated *in vitro* diagnostic tests (ISO 17822) for testing *Salmonella* spp., *Listeria monocytogenes* and *Vibrio* spp. from marketed food products.
- Developed laboratory skills to navigate a fast-paced working environment while maintaining standardized procedures and ensuring compliance with safety regulations in a biosafety level 2 laboratory.

**TEACHING EXPERIENCE**

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**EVOLUTIONARY ECOLOGY | Teaching Assistant**

11/2023 - 11/2023

*University of Hamburg*

Hamburg, Germany

1 class, 12 students

- 3rd year elective practical course for the B.Sc. Biology program.
- Supported and advised students on molecular experiments (PCR, gel-electrophoresis, ICC, result interpretation)

**ANIMAL PHYSIOLOGY | Teaching Assistant**

10/2022 - 11/2023

*University of Hamburg*

Hamburg, Germany

24 classes, 200+ students total

- 2nd year mandatory practical course for the B.Sc. Biology program.
- Supported in assessing course plan, assisted students on molecular experiments (cell counting, SDS-PAGE, ECG, enzyme activity measurement, basic data interpretation)

**CONFERENCE ACTIVITIES**

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**Detecting *Wolbachia* Infection With Real-time PCR in Female-biased Flea Beetle *Altica lythri***115th Annual Conference of the German Zoological Society  
Poster09/2023  
Kassel, Germany

## EXPEDITIONS

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### **Ocean Census GoSouth: Searching for New Species in South Sandwich Islands**

(FKt250220)

R/V *Falkor (too)*

02/2025 - 03/2025 (35 Days)

Ocean Census Onboard Taxonomist (Generalist, Isopoda)

South Sandwich Islands

Chief Scientist: Dr. Michelle Taylor

Onboard Principle Investigator: Joe Sharman (Head of Expedition), Dr. Jenny Gales (Leader of GoSouth)

Corresponding Gears:

- Remotely Operated Vehicle ROV *SuBastian*

Experiences:

- Served as generalist with focus on Isopoda as an Ocean Census taxonomist to assist marine life discovery.
- Assisted ROV operation, species identification, and specimens preservation.
- Developed R scripts for rapid access to ROV visual files and sealog data.

## SKILLS

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**Molecular Biological Tools:** PCR techniques, SDS-PAGE, Western blot, MALDI-TOF, Cloning

**Cell Biology and Immunology Techniques:** ICC, Cell culture, ELISA, ELISpot, FACS, CLSM

**Programming Languages and Technical Writing:** R, Python 3, HTML, CSS,  $\text{\LaTeX}$ , Typst, Quarto

**Data Analysis Tools:** Multivariate analysis, BLAST, ImageJ (Fiji), Adobe Creative Softwares, DaVinci Resolve, R/ Python-based GIS

**Languages:** German, English, Mandarin (Native), Japanese (Fluent)

## REFERENCES

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### **Jenny Neuhaus**

German Centre for Marine Biodiversity Research (DZMB)

DZMB c/o Biozentrum, Martin-Luther-King Pl. 3

[jenny.neuhaus@senckenberg.de](mailto:jenny.neuhaus@senckenberg.de)

- PhD Student at the section Epifauna
- First supervisor of my *Acanthocope* research project
- Supervisor of my master thesis

### **Prof. Dr. Saskia Brix**

German Centre for Marine Biodiversity Research (DZMB)

DZMB c/o Biozentrum, Martin-Luther-King Pl. 3

[saskia.brix-elsig@senckenberg.de](mailto:saskia.brix-elsig@senckenberg.de)

- Group leader of the section Epifauna
- Second supervisor of my *Acanthocope* research project
- Supervisor of my master thesis

### **Prof. Dr. Susanne Dobler**

Department of Biology, University of Hamburg

Martin-Luther-King Pl. 3, 20146 Hamburg, Germany

[susanne.dobler@uni-hamburg.de](mailto:susanne.dobler@uni-hamburg.de)

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- Group leader of the working group Molecular Evolutionary Biology
- First supervisor of my bachelor thesis

**Dr. Kim Rohlfing**

Department of Biology, University of Hamburg

Martin-Luther-King Pl. 3, 20146 Hamburg, Germany

[kim.rohlfing@uni-hamburg.de](mailto:kim.rohlfing@uni-hamburg.de)

Tel.: +49 40 42838-3867

- Postdoctoral research of the working group Molecular Evolutionary Biology
- Second supervisor of my bachelor thesis