

# Zhehao Hu

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## EDUCATION

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### UNIVERSITY OF HAMBURG

*Master of Science in Biology*

Hamburg, Germany

10/2023 - Present

#### 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

*Bachelor of Science in Biology*

Hamburg, Germany

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

*German Centre for Marine Biodiversity Research (DZMB)*

01/2025 - Present

Hamburg, Germany

- Biogeographic analysis of the deep-sea isopod
- Species description of *Acanthocope rotundispina* sp. nov. and *Haploniscus* sp. A nov.

### RESEARCH ASSISTANT INTERNSHIP

*German Centre for Marine Biodiversity Research (DZMB)*

10/2024 - 12/2024

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 bar-coding), and proteomics (MALDI-TOF) to assess biogeographic pattern.

**RESEARCH ASSISTANT**

University of Hamburg, Group Neurophysiology

- Assisted genotyping of the experimental animals.

07/2024 - Present

Hamburg, Germany

**STUDENT ASSISTANT**

University of Hamburg, Group Molecular Evolutionary Biology

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

08/2023 - 03/2024

Hamburg, Germany

**LABORATORY TECHNICIAN**

Eurofins BioTesting Service Nord GmbH

- 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.

06/2023 - 07/2023

Hamburg, Germany

**TEACHING EXPERIENCE**

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**EVOLUTIONARY ECOLOGY | Teaching Assistant**

University of Hamburg

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)

11/2023 - 11/2023

Hamburg, Germany

**ANIMAL PHYSIOLOGY | Teaching Assistant**

University of Hamburg

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)

10/2022 - 11/2023

Hamburg, Germany

**CONFERENCE ACTIVITIES**

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**Integrative Taxonomy and Biogeography of the genus *Acanthocope* Beddard, 1885 with the description of a new species**

The Crustacean Society Summer Meeting 2025

Talk

07/2025

Paris, France

**Integrative Taxonomy and Biogeography of the genus *Acanthocope* Beddard, 1885 with the description of a new species (3rd Prize Student Award)**

26th Annual Meeting of the Society of Biological Systematics (GfBS)

Talk

05/2025

Hamburg, Germany

**Detecting *Wolbachia* Infection With Real-time PCR in Female-biased Flea Beetle *Altica lythri***

115th Annual Conference of the German Zoological Society (DZG)

Poster

09/2023

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 and sealog data.

## 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)

Tel.: +49 40 42838-4288

- 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