

# Zhehao Hu

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## EDUCATION

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### UNIVERSITY OF HAMBURG

*Master of Science in Biology*

Hamburg, Germany

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

### 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*

- 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

- Species description of *Acanthocope* sp. nov.

### ONBOARD TAXONOMIST

*Ocean Census*

02/2025 - 03/2025

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)

### 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 barcoding), and proteomics (MALDI-TOF) to assess biogeographic assessment.

### RESEARCH ASSISTANT

*University of Hamburg, Group Neurophysiology*

07/2024 - Present

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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### 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)

### 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)

## 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

09/2023

Poster

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

Corresponding Gear:

- Remotely Operated Vehicle (ROV)

## TECHNICAL 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, L<sup>A</sup>T<sub>E</sub>X, 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 (Limited)