

# Curriculum vitae

Julian Schumacher

## EDUCATION

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### **Doctor of Philosophy (PhD) Chemistry**

Microcosm Earth Center:  
University of Marburg, Max  
Planck Institute for  
Terrestrial Microbiology  
2023 – exp. 2026

### **Master of Science (M.Sc.) Microbiology**

University of Oldenburg,  
Institute for Chemistry and  
Biology of the Marine  
Environment (ICBM)  
2021 - 2023

### **Bachelor of Science (B.Sc.) Environmental Sciences**

University of Oldenburg  
2017 - 2021

## LANGUAGES

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English (fluent)  
German (native)

## CURRENT POSITION

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### **Doctoral Researcher**

International Max Planck Research School of Principles of Microbial Life | Biogeochemistry |  
Marburg, Germany | 2023 – exp. 2026

- Acquiring a PhD degree in the Microcosm Earth Center on the topic of arsenolipid physiology and biosynthesis in cyanobacteria

## PREVIOUS WORK

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### **Microbiologist** (Research Projects / Master Thesis)

General and Molecular Microbiology | Oldenburg, Germany | 2022 - 2023

- Created reconstruction of biosynthetic pathways in denitrifying bacteria upon proteogenomic annotations
- Initiated the 3-Dimensional reconstruction of a chloroplast in marine dinoflagellate *Prorocentrum cordatum*

### **Research Assistant**

General and Molecular Microbiology | Oldenburg, Germany | 2020 - 2022

- Performed chemical analytical examinations by applying HPLC, including substrate consumption profiles, energetic stoichiometries, and growth adaptations

### **Teaching Assistant**

General and Molecular Microbiology/Benthic Microbiology | Oldenburg, Germany | 2020 - 2022

- Conveyed central aspects of general microbiology and microbial physiology by combining means of remote and presence teaching

### **Environmental Qualifications** (Research Projects / Bachelor Thesis)

General and Molecular Microbiology | Oldenburg, Germany | 2019 - 2021

- Resolved the biogeographical distribution and physicochemical adaptations of sulfate-reducing bacteria based on a comparative literature survey
- Obtained insights in field-related work and marine sampling, laboratory analysis, and interconnective literature works