

# Curriculum vitae

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## Personal data

Name Julia Marén Otte  
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## Education and academic studies

### Since 2018 AWI (Bremerhaven) and MPI for Marine Microbiology (Bremen), Germany

Since 2018 PostDoc in HGF-MPG Group for Deep Sea Ecology and Technology at Alfred-Wegener-Institute Helmholtz-Centrum for Polar and Marine Research and Max Planck Institute for Marine Microbiology, Germany

### 2014 - 2018 Eberhard-Karls-University Tübingen, Germany

07/2018 **Degree: Dr. rer. nat.** (Doctoral of natural sciences)  
2014 - 2018 PhD student in the Geomicrobiology/Microbial Ecology group  
Supervisors: Prof. Dr. Andreas Kappler, Jun.-Prof. Dr. Sara Kleindienst, Dr. Caroline Schmidt  
Thesis title: *Iron-cycling microorganisms in marine and freshwater sediments and implications for greenhouse gas emission.*

### 2012 - 2014 Albert-Ludwigs-University Freiburg, Germany

09/2014 **Degree: Master of Science** in Biology  
2012 - 2014 Master of Science; graduation in Microbiology and Biochemistry  
Supervisors: Prof. Dr. Ivan Berg and Prof. Dr. Matthias Boll  
Thesis title: *Malonic semialdehyde reductase from the ammonia oxidizing Archaeon Nitrosopumilus maritimus*  
2012 - 2014 B.Sc. studies in Geo Sciences (Second matriculation in Geo Sciences)

### 2009 - 2012 Ruprecht-Karls-University Heidelberg, Germany

07/2012 **Degree: Bachelor of Science** in Bio Science  
2009 - 2012 Bachelor of Science; graduation in Animal Molecular Physiology  
Supervisor: Prof. Dr. Stephan Frings  
Thesis title: *Expression of Tmem16 chloride-activated channels in the pineal gland and tongue.*  
2010 - 2012 B.Sc. studies in Geo Sciences (Second matriculation in Geo Sciences)

## Work experience and scientific internships

- 2013 **Max Planck Institute for Biogeochemistry (Jena)/ MARUM** (Bremen), Organic Paleobiogeochemistry, internship  
Supervisor: Dr. Christian Hallmann
- 2010 - 2012 **Archaeometry-Center** (Mannheim), lab assistant (HiWi) in Klaus-Tschira-Laboratory for bone preparation for <sup>14</sup>C-dating  
Supervisors: Prof. Dr. Ernst Pernicka and Dr. Bernd Kromer

## Student teaching and supervising activities (2014-2018)

- 2014 -2018 Teaching of several new PhD, master, and bachelor students in molecular biology methods and mentoring PhD student (Saskia Rughöft)
- 2016-2017 Supervision of Viktoria Soos (scientific practice of Bachelor thesis "*Impact of sterilization methods on marine sediment*") and HiWi; microcosm experiments
- 2015-2016 Supervision of Monique Patzner (scientific practice of Master thesis "*Cross-sensitivity of iron and manganese in Ferrozine and Formaldoxime assay*")  
Supervision of Akanksha Mishra (joint supervision of Master thesis); headspace gas sampling, DNA and RNA extraction, qPCR  
Supervision of students during the "Lab course of geoscientists", molecular biology methods and scientific project "*Abundance of N-cycling genes in marine sediment*"
- 2015 Supervision of Kaleen Rasmussen (B.Sc. internship); DNA and RNA extraction of freshwater sediment, (q)PCR

## Acquired professional qualification during PhD work (2014-2017)

- Molecular biology methods RNA and DNA preparation and kit optimization, DNA digests, real-time PCRs, development of qPCR assays, DNA cloning, T-RFLP and Illumina 16S rRNA amplicon (gene) sequencing (2 projects)
- Geomicrobiology methods Project management and experimental design; theoretical introduction in an interdisciplinary topic, use of spectrophotometry, flow injection analysis, microelectrodes, work in anoxic glovebox, preparation of anoxic microcosms, testing sterilization methods, Ferrozine assay, gas sampling for gas chromatography, work in isotope lab with <sup>3</sup>H-labeled Leucine
- Computer knowledge Advanced knowledge of Adobe Illustrator and MS Office programs (Word, Excel, Power Point); basic knowledge of bioinformatic tools e.g. QIIME, MOTHER, STAMP, MEGAN, BLAST