

# Sonja Wahl

PHD · CRYOSPHERIC SCIENCES · EARLY CAREER RESEARCHER

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## Current Employment

### Guest Post-Doc

UNIVERSITY OF WASHINGTON

Seattle, US

December 2023 - ongoing

### Post-Doc

UNIVERSITY OF BERGEN & BJERKNES CENTRE FOR CLIMATE RESEARCH

Bergen, Norway

November 2023 - ongoing

## Work Experience

### Post-Doc

LABORATORY OF CRYOSPHERIC SCIENCES ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)

Lausanne, Switzerland

October 2022 - September 2023

### Guest Post-Doc

WSL INSTITUTE FOR SNOW AND AVALANCHE RESEARCH SLF

Davos, Switzerland

December 2022 - September 2023

### Technician for Water Isotope Laboratory

ALFRED-WEGENER-INSTITUTE HELMHOLTZ CENTRE FOR POLAR AND MARINE RESEARCH

Bremerhaven, Germany

April - September 2022

### PhD in Geophysics with a focus on snow-atmosphere exchange processes

UNIVERSITY OF BERGEN, GEOPHYSICAL INSTITUTE

Bergen, Norway

May 2018 - February 2022

Date of defense: 24.02.2022, Thesis title: *The Influence of the Surface Humidity Flux on the Snow Isotopic Composition - Revisiting the Formation of the Climate Signal Stored in Ice Core Water Isotope Records*

### Voluntary Internship in Emission Laboratory

ŠKODA AUTO A.S.

Mladá Boleslav, Czech Republic

Data analysis and software development

03.-06.2017

## Practical Experience

### Laboratory & Field Work

2023

**Cold-Laboratory Experiments**, Designing, planning and executing of ring windtunnel experiments with snow incl. stable water isotope measurements in cold laboratory facilities.

WSL-SLF, Davos, Switzerland

2018 -  
2023

**Stable Water Isotope Measurements**, Extensive experience with stable water isotope analysis of water and water vapor samples using cavity ring-down laser spectroscopy in the laboratory and in the field including calibration.

Alfred-Wegener-Institute,  
Bremerhaven, Germany

11.2021

**Methodology Development**, Involvement in esa-funded project **WIFVOS**: Laboratory tests of new equipment to sample atmospheric water vapor with drone.

University of Bergen,  
Norway

2020

**Polar Field Work related to Eastgrip project**, Handling, logging and processing of ice core samples (4 weeks).

EastGRIP,  
Greenland Ice Sheet

2018  
& 2019

**Polar Field Work related to SNOWISO project**, Set up and maintenance of automatic weather station, eddy-covariance measurements and profile measurements of wind, temperature, humidity and isotopic vapour measurements. Additional daily routines of snow sampling. Field-season related planning, coordination and data management. (6 weeks in 2018, 9 weeks in 2019)

EastGRIP,  
Greenland Ice Sheet

2018

**Polar Field Work related to ASTI project lead by AWI Bremerhaven**, Set up and maintenance of a meteorological station together with isotopic vapour measurements. Data management. (5 weeks)

Kohnen Station,  
Antarctic Ice Sheet

# Education

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## M.Sc. Double Degree in Environmental Sciences

*Copenhagen, Denmark & Stuttgart, Germany*

UNIVERSITY OF KOPENHAGEN, NIELS-BOHR INSTITUTE

2016-2018

UNIVERSITY OF HOHENHEIM

2015 - 2016

Thesis on Stable Water Isotope Paleoclimatology: *Holocene Climate and Ice Flow of the Renland Ice Cap*

## Exchange Semester

*Gothenburg, Sweden*

UNIVERSITY OF GOTHENBURG, GEOSCIENCE INSTITUTE

winter semester 2014

## B.Sc. in Environmental Sciences

*Tübingen, Germany*

UNIVERSITY OF TÜBINGEN, GEOSCIENCE INSTITUTE

2012 - 2015

Thesis in Hydrogeology: *Investigations on the influences of the river Neckar on the chemistry of an adjacent aquifer.*