



# LENA WILHELM

## CONTACT



Institute of Geography  
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02.07.1997

## LANGUAGES

- German (native)
- Englisch (C2)
- Italian (B1)

## SKILLS

- Data analysis: Python, IDL, R, ArcGIS, QGIS
- OS: UNIX, Windows
- Office: Microsoft Office, Libre Office
- Typesetting: Overleaf

## OTHER

- Two-times Bavarian Champion in Sabre-fencing and member of "Landeskader Bayern" and "Leistungsspitze Bayern" in season 2013/14/15

## EDUCATION

### PhD in Climate Sciences

02/2021 – present

### University of Bern, Climate Impact Research Group

Thesis: *"Hail time series from radar proxies for decadal variability of hail in Switzerland"*

Supervisors: Prof. Olivia Martius (Uni Bern), Jun. Prof. Katharina Schröder (Uni Freiburg), Dr. Cornelia Schwierz (MeteoSwiss)

### M.Sc. Earth & Climate System Science

10/2019 – 02/2021

### University of Hohenheim

Focus on atmospheric sciences

Master-Thesis: *"Meteorological conditions for strongly warming contrails and the statistics of contrails instantaneous radiative forcing"*

Final Grade: 1.4

### B.Sc. Geography

09/2015 – 09/2019

### University of Bonn

Focus on physical geography and climatology

Bachelor-Thesis: *"Der Einfluss von Vulkanausbrüchen auf das Klima"*

Final Grade: 1.7

## SEMESTER ABROAD

### Czech University of Life Sciences Prague, Czech Republic

09/2020 – 02/2021

Seminars in M.Sc. Environmental Modelling program

Focus on hydrology, atmospheric transport, and physical-chemical processes

### University of Winnipeg, Canada

09/2017 – 12/2017

Seminars in B.Sc. Geography program

Focus on climatology

## EXPERIENCE

### Deutsches Zentrum für Luft- und Raumfahrt, Institut für Physik der Atmosphäre (ESM)

05/2021 – present

### Full-time employment during Master-Thesis:

Work for the **EU-project ACACIA** (Advancing the Science for aviation and climate):

Papers on contrail radiative forcing and Big Hits (see publications)

Part of a working group on contrail prevention

08/2019 – 09/2019

### Internship

Analyzing radiosonde data for a paper on arctic ice supersaturated regions

## SELECTED PUBLICATIONS

- Wilhelm, L. et al., Weather Variability Induced Uncertainty of Contrail Radiative Forcing. *Aerospace* 11, 8, p. 332 (2021), 10.3390/aerospace8110332
- Wilhelm, L. et al., Meteorological Conditions That Promote Persistent Contrails, *Applied Sciences* 12, 9, p. 4450 (2022), 10.3390/app12094450