

Curriculum Vitae – Martin Aregger

Contact: Institute of Geography
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Date of Birth: 9th July 1996

WORK EXPERIENCE

01/2022 – present

PhD Candidate

Oeschger Centre for Climate Change Research & Institute of Geography, University of Bern

- Research Topic: Hail detection and sizing using polarimetric radar data and numerical weather prediction model validation.
- Collaboration with the MeteoSwiss Radar Division (Supervised by Dr. Urs Germann & Dr. Alessandro Hering) and the Climate Impact Research Group of the University of Bern (Prof. Dr. Olivia Romppainen-Martius).
- Part of the [scClim](#) project on establishing a seamless model chain from the simulation of thunderstorms to the quantification of hail impacts in Switzerland.
- Contributions to teaching (Introduction to programming with Python) and supervision of multiple master theses projects.

01/2023 – present

Assistant in IT Administration

Institute of Geography, University of Bern

- Administration of Ubuntu servers and personal computers
- First-level user support
- Research group data management

03/2021 – 11/2021

Trainee in aviation meteorology

MeteoSwiss Locarno-Monti

- Programming of algorithms for the automatic detection of hail based on radar data and in situ sensors.
- Collection and analysis of hail events at swiss airports.
- Validation of the quality of the algorithms against manual METAR observations and crowdsourcing data.

- Implementation and documentation of the algorithms within the autometpy python package.

10/2018 – 01/2021

Student employee

Saletelligence Schweiz GmbH

- Data preparation and maintenance.
- Programming of customer targetings based on market analyses for the healthcare industry.

EDUCATION

09/2018 – 02/2021

Master of Science in Climate Sciences

University of Bern & ETHZ (insigni cum laude)

- Special qualification in Atmospheric Science.
- Thesis: *Stationary and slow-moving convection over Switzerland: A 14-year radar-based climatology.*
- Member of the Climate Science Student Council (10/2018 – 10/2020), President of the council (10/2019 – 10/2020).

09/2015 – 09/2018

Bachelor of Science in Geography

University of Bern (insigni cum laude)

- Major: Geography.
- Minor (30 ECTS): Computer Science.
- Minor (30 ECTS): Sustainable Development.
- Thesis: *Analysis of summertime hailstorms over Switzerland using the surrogate climate change method with the WRF model.*

08/2011 – 06/2015

Gymnasiale Maturität

Kantonsschule Solothurn

- Specialization: Physics and Applications of Mathematics.

Skills

Languages:

German – native speaker

English – C2: Cambridge English Level 3 Certificate in ESOL International (Proficiency) Grade B

French – Basic Knowledge

Programming:

Python, SAS, R, Basic PostgreSQL

Tools:

Git, Jenkins, Jira, Adobe Lightroom Photoshop & Illustrator

GIS:

ESRI ArcGis, QGIS