

Magdalena Fritz

Curriculum Vitae

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Date of birth: February 1997

Work Experience

- 11/2022–
02/2023 **Scientific Project Staff**, Department of Meteorology and Geophysics, University of Vienna, Vienna, Austria
- 04/2022–
10/2022 **FEMtech Internship**, b.geos GmbH, Korneuburg, Austria
- 03/2022–
08/2022 **Student Staff/Tutor**, Department of Meteorology and Geophysics, University of Vienna, Vienna, Austria
- 10/2021–
02/2022 **Study Assistant/Tutor**, Department of Meteorology and Geophysics, University of Vienna, Vienna, Austria
- 08/2021–
09/2021 **Voluntary Work**, Österreichischer Alpenschutzverband, Vorarlberg, Austria
- 07/2020–
09/2020
- 07/2019–
08/2019
- 07/2021 **Internship**, Climate Diagnostics Working Group, Department of Meteorology and Geophysics, University of Vienna, Vienna, Austria
- 03/2021–
08/2021 **Student Staff/Tutor**, Department of Meteorology and Geophysics, University of Vienna, Vienna, Austria
- 09/2019–
09/2019 **Internship**, Energieinstitut Vorarlberg, Dornbirn, Austria
- 02/2019–
03/2019 **Internship**, Landeskrankenhaus Feldkirch, Medizinische Physik, Feldkirch, Austria
- 09/2015–
12/2015 **Voluntary Work**, Conservation Volunteers, Australia
- 2012 **Voluntary Work**, Nursing Home, Bregenz, Austria

Education

- 03/2023– **PhD in Meteorology**, University of Vienna, Vienna, Austria
Thesis: Data-driven methods to reduce model errors in numerical weather prediction
Supervisors: Univ.-Prof. Mag. Dr. Martin Weißmann

- 03/2020– **MSc in Meteorology**, University of Vienna, Vienna, Austria
11/2022 **Thesis:** Assessment of oceanic transports in the Indonesian Throughflow region as represented by ocean reanalyses
Supervisor: Univ.-Prof. Mag. Dr. Leopold Haimberger
- 03/2018– **BSc in Physics**, University of Vienna, Vienna, Austria
08/2021 **Thesis:** Curvature-induced asymmetric spin-wave dispersion in a magnetic half-tube
Supervisor: Univ.-Prof. Dipl.-Ing. Dr. techn. Dieter Süss
- 10/2016– **BSc in Meteorology**, University of Vienna, Vienna, Austria
02/2020 **Thesis:** Der globale Meeresspiegelanstieg - Eine Analyse von Pegeldaten und Satellitendaten
Supervisor: Univ.-Prof. Mag. Dr. Leopold Haimberger
- 09/2007– **A-Levels (AHS Reifeprüfung)**, Bundesgymnasium Gallusstraße, Bregenz, Austria
06/2015

Publications

- **Fritz, M.**, Mayer, M., Haimberger, L., and Winkelbauer, S.: Assessment of Indonesian Throughflow transports from ocean reanalyses with mooring-based observations, *Ocean Sci.*, 19, 1203–1223, doi.org/10.5194/os-19-1203-2023, 2023.

Conferences and Workshops

- November 2023 **Training course, ECMWF Reading, England**, Parametrization of subgrid physical processes
- October 2023 **ISDA 2023, Bologna, Italy**, Poster: Parameter estimation for boundary-layer turbulence parameterizations over heterogeneous terrain
- April 2023 **EGU 2023, Vienna, Austria**, Talk: Suitability of ocean reanalyses for monitoring of oceanic exchanges through the Indonesian Throughflow

Languages

- **German** native
- **English** fluent
- **French** B1
- **Latin** Latinum

Skills

- **Operating Systems**
MacOs, Windows, Linux
- **Programming Languages**
Python, Bash
- **Text Processing**
LaTex, Microsoft Word
- **Member of**
Swimming Club Bregenz
Austrian Water Rescue
Alpenschutzverein Vorarlberg
Austrian Alpine Association