



Gregor Köcher

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Personal Information

Name Gregor Köcher
Birth Name Möller
Nationality German

Education

- Jul 2023 – Present **Meteorology (PostDoc)**, *Ludwig-Maximilians-Universität*, Munich
- Investigation of the Initiation and the Evolution of Precipitation with Polarimetric Radar Observations at C- and Ka-Band (IcePolCKa)
 - Part of the project “PROM”: Polarimetric Radar Observations meet Atmospheric Modelling (<https://doi.org/10.5194/acp-21-17291-2021>)
- Jan 2019 – Jul 2023 **Meteorology (PhD)**, *Ludwig-Maximilians-Universität*, Munich
- Dissertation: Convective Cloud Microphysical Parameterizations in a Numerical Weather Prediction Model – An Evaluation with Polarimetric Radar Observations
 - Supervisors: Prof. Dr. Mayer & Prof. Dr. Knote
- Oct 2015 – Dec 2018 **Meteorology (M.Sc.)**, *University of Hamburg*, Hamburg
- Master’s Thesis: The impact of wind drift on radar-derived rainfall estimates
 - Supervisors: Prof. Dr. Ament & Dr. Clemens
 - Overall Grade: 1.37
- Aug 2014 – Jan 2015 **Semester Abroad**, *University of Oklahoma*, Oklahoma, USA
- Courses: Synoptic Meteorology, Statistics, Python, Physical Meteorology
 - Average Grade: 1.5
- Oct 2012 – Sep 2015 **Meteorology (B.Sc.)**, *University of Hamburg*, Hamburg
- Bachelor’s Thesis: The logarithmic wind profile at the Hamburg Weather Mast
 - Supervisor: Prof. Dr. Ament
 - Overall Grade: 1.74
- Aug 2009 – Jul 2012 **German Abitur**, *Schulfarm Insel Scharfenberg*, Berlin
- Overall Grade: 2.0

Professional Experience

- Oct 2017 – Mar 2018 **Student Assistant**, *Helmholtz-Zentrum*, Geesthacht
Programmer
- Programming with Python and R
 - Automations and Model Evaluations
- Mar 2015 **Internship**, *German Meteorological Service*, Hamburg
- Departments: Synoptic Meteorology, Climate, and Environment

Publications

- Jul 2023 **Convective cloud microphysical parameterizations in a numerical weather prediction model: an evaluation with polarimetric radar observations**, *Dissertation, LMU München: Fakultät für Physik*, <https://doi.org/10.5282/edoc.32170>
Köcher, G.
- May 2023 **Influence of cloud microphysics schemes on weather model predictions of heavy precipitation**, *Atmos. Chem. Phys.*, <https://doi.org/10.5194/acp-23-6255-2023>
Köcher, G., Zinner, T., and Knote, C.
- Mar 2022 **Evaluation of convective cloud microphysics in numerical weather prediction models with dual-wavelength polarimetric radar observations: methods and examples**, *Atmos. Meas. Tech.*, 15, 1033-1054, <https://doi.org/10.5194/amt-15-1033-2022>
Köcher, G., Zinner, T., Knote, C., Tetoni, E., Ewald, F., and Hagen, M.

Skills

- Languages **German**, *Native*
English, *Fluent in both spoken and written*
French, *Basic knowledge*
Latin, *Basic knowledge*
- Licenses **Driving License**, *Class B*
Sailing License, *Inland & Coastal*
- IT **Programming Languages**, *Python, Fortran, R, MATLAB*
Web Design, *HTML, CSS*
Operating Systems, *Linux, Unix, Windows*
Version Control, *Git*
Text Processing, *L^AT_EX, MS-Office*