

Curriculum vitae

Name Kevin Wolf

Education

1996 – 2000 Basic Primary School, Schmalkalden
2000 – 2009 Philipp–Melanchthon–Gymnasium, Schmalkalden
10/2009 – 10/2013 BSc. Meteorology at the University of Leipzig, Leipzig, Germany
10/2013 – 10/2015 MSc. Meteorology at the University of Leipzig, Leipzig, Germany
10/2015 – 05/2020 PhD student at the University of Leipzig, Leipzig, Germany

Employments

04/2014 – 06/2014 Scientific employee at Institute for Tropospheric Research, Leipzig, Germany
01/2015 – 06/2015 Scientific employee at Institute for Tropospheric Research, Leipzig, Germany
08/2015 – 09/2015 Scientific employee at Institute for Tropospheric Research, Leipzig, Germany
10/2015 – 07/2020 Scientific employee at University of Leipzig, Leipzig, Germany

Publications

1. **Wolf, K.**, A. Ehrlich, T. Hüneke, K. Pfeilsticker, F. Werner, M. Wirth, and M. Wendisch, 2017: Potential of remote sensing of cirrus optical thickness by airborne spectral radiance measurements at different sideward viewing angles, *Atmos. Chem. Phys.*, 17, 4283-4303, DOI:10.5194/acp-17-4283-2017
2. Stevens, B., F. Ament, S. Bony, S. Crewell, F. Ewald, S. Gross, A. Hansen, L. Hirsch, M. Jacob, T. Kölling, H. Konow, B. Mayer, M. Wendisch, M. Wirth, **K. Wolf**, S. Bakan, M. Bauer-Pfundstein, M. Brueck, J. Delanoë, A. Ehrlich, D. Farrell, M. Forde, F. Gödde, H. Grob, M. Hagen, E. Jäkel, F. Jansen, C. Klepp, M. Klingebiel, M. Mech, G. Peters, M. Rapp, A.A. Wing, and T. Zinner: A high-altitude long-range aircraft configured as a cloud observatory - the NARVAL expedition, *B. Am. Meteorol. Soc.*, 0 , DOI:10.1175/BAMS-D-18-0198.1
3. Schäfler, A., G. Craig, H. Wernli, P. Arbogast, J. Doyle, R. McTaggart-Cowan, J. Methven, G. Riviére, F. Ament, M. Boettcher, M. Bramberger, Q. Cazenave, R. Cotton, S. Crewell, J. Delanoë, A. Dörnbrack, A. Ehrlich, F. Ewald, A. Fix, C. Grams, S. Gray, H. Grob, S. Groß, M. Hagen, B. Harvey, L. Hirsch, M. Jacob, T. Kölling, H. Konow, C. Lemmerz, O. Lux, L. Magnusson, B. Mayer, M. Mech, R. Moore, J. Pelon, J. Quinting, S. Rahm, M. Rapp, M. Rautenhaus, O. Reitebuch, C. Reynolds, H. Sodemann, T. Spengler, G. Vaughan, M. Wendisch, M. Wirth, B. Witschas, **K. Wolf**, and T. Zinner, 2018: The North Atlantic Waveguide and Downstream Impact Experiment, *B. Am. Meteorol. Soc.*, 8 , 1607-1637 , DOI:10.1175/BAMS-D-17-0003.1
4. **Wolf, K.**, A. Ehrlich, M. Jakob, S. Crewell, M. Wirth, and M. Wendisch, 2019: Improvement of Airborne Retrievals of Cloud Droplet Number Concentration of Trade Wind Cumulus Using a Synergetic Approach, *Atmos. Meas. Tech.*, 12 , 1635-1658 , DOI:10.5194/amt-12-1635-2019
5. **Wolf, K.**, A. Ehrlich, R. J. Hogan, M. Mech, and M. Wendisch, subm.: Evaluation of ECMWF Radiation Scheme by Aircraft Observations of Spectral Irradiance above Clouds, *J. Atmos. Sci.*, 77 (8),2665–2685 , DOI:10.1175/JAS-D-19-0333.1

Field Work

- 2016: Next Generation Remote Sensing for Validation Studies (NARVAL-II), Barbados
- 2016: The North Atlantic Waveguide and Downstream Impact Experiment (NAWDEX), Iceland
- 2020: Elucidating the role of cloud- circulation coupling in climate (EUREC⁴A), Barbados

Presentations at Conferences

- '*Estimation of Cloud Droplet Number Concentration of Shallow Trade-Wind Cumulus using Synergistic Airborne Remote Sensing*', AMS Radiation Conference Vancouver, 2018.

Poster

- '*Airborne remote sensing of cloud droplet number concentration using synergetic passive solar and microwave radiation measurements*', European Geoscience Union, 2017.
- '*Potential of remote sensing of cirrus optical thickness by airborne remote sensing under different viewing angles*', HALO symposium, 2017.
- '*Comparison of airborne measurements and simulations of broadband and spectral irradiances*', ECMWF radiation workshop, 2018
- '*Cloud Droplet Number Concentration of Shallow Trade-Wind Cumulus Using Synergistic Remote Sensing Measurements*', UCP2019 conference, 2019.
- '*Evaluation of ECMWF IFS Radiation Scheme by Aircraft Observations of Spectral Irradiance above Clouds*', HALO symposium, 2019.

Key Skills

- **Programming:** *fortran, idl, netCDF, python*
- **Teaching:** *Supervision of Bachelor students; lectures on occasional basis*
- **Participation:** *Leipzig Graduate School - Clouds, Aerosol, Radiation (LGS-CAR); Advanced Training Modules about radiation, ice cloud microphysics, arctic mixed-phase clouds*