

CURRICULUM VITAE

PERSONAL DATA

Name: Dr. Stefan Josef Kneifel
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UNIVERSITY EDUCATION

05/2008 – 11/2011 PhD (Dr. rer. nat.) in Meteorology at the University of Cologne, Germany, Subject: *Characterization of snowfall using ground-based passive and active remote sensors.*
10/2002 – 04/2008 Diploma (equiv. M.S. degree) in Meteorology from the Ludwig-Maximilians-University Munich, Germany, Subject: *Modelling and observation of horizontal water vapor inhomogeneities using microwave radiometry* (in german).

EMPLOYMENT RECORD

since 01/2017 Leader of the Emmy-Noether Young Researcher Group “Optimal combination of Polarimetric and Triple frequency radar techniques for Improving Microphysical process understanding of cold clouds” (OPTIMIce) at the University of Cologne
08/2015 – 12/2016 PostDoc at the Institute of Geophysics and Meteorology, University of Cologne within the HD(CP)² project (BMBF).
05/2011 – 07/2013 PostDoc at the Institute of Geophysics and Meteorology, University of Cologne within the Reanalysis project of the Hans-Ertel Centre for Weather Research, German Weather Service (DWD).
05/2008 – 04/2011 Scientific Assistant at the Institute of Geophysics and Meteorology, University of Cologne within the TOSCA project (DFG).

DR. STEFAN KNEIFEL – CURRICULUM VITAE

- 01/2007 – 03/2008 Student Research Assistant in the field of passive microwave radiometry within the SFB-TR32 (DFG) at the Institute of Meteorology, University of Bonn.
- 11/2004 – 01/2006 Student Research Assistant at the Institute of Meteorology, University of Munich within the DWD project: *HUBOLA – Comparison of humidity data from the ATOVS and SEVIRI systems with ground-based radiosondes, microwave radiometers and GPS measurements.*
- 09/2002 – 10/2002 Working student, Institute for Atmospheric Physics, German Aerospace Center (DLR), Oberpfaffenhofen, Germany: *Development of an electric field mill for observing the atmospheric electric field of thunderstorms.*
- 06/2002 – 07/2002 Voluntary Internship, German Weather Service (DWD), Hohenpeißenberg Observatory, project: VERTICATOR.
- 06/2001 – 04/2002 Alternative civilian service, Bavarian Nature Conservation Association (Bund Naturschutz in Bayern e.V.)

INTERNATIONAL EXPERIENCE

- 09/2013 – 02/2015 PostDoc fellowship from the German Academic Exchange Service (DAAD), with Prof. Kollias, McGill University, Montreal, Canada. Subject: *Development of advanced multi- and high frequency cloud radar techniques for a better process understanding of clouds and precipitation microphysics.*
- 12/2010 – 01/2011 Stay at the Belgian Princess Elisabeth Antarctic station, Soer Rondane Mountains, East Antarctica, within the HYDRANT project, (BELSPO, Prof. van Lipzig).
- 09/2010 – 11/2010 Visiting scientist at the University of Wisconsin, Madison, with Prof. Bennartz. *Work on multi-frequency radar methods for remote sensing of snowfall.*
- 04/2006 – 09/2006 Scientific Assistant at the University of Bergen, Norway, with Prof. Reuder. *Development of sensors and a data acquisition system for the observation of wind, temperature and humidity using small unmanned airplanes.*

TEACHING EXPERIENCE AND OUTREACH

- *Full-term Lecturer at McGill University, Montreal, Canada*
 - ATOC-309 "Weather Radars and Satellites" (winter term 2014)
- *Teaching Assistant, Institute of Geophysics and Meteorology, University of Cologne*
 - Tutorial courses for Master students in Radiation, Clouds, Precipitation (WS 2011/2012)

- Supervision of Laboratory courses for undergraduate Meteorology students (SS2009, SS2011)
- Supervision of Field Practical Courses for graduate Meteorology students (SS 2012)
- Outreach activities at University of Cologne
 - Video production within the ITaRS training network, topic: „How does a cloud form?“ (Youtube: <https://youtu.be/gcdeuluWWEQ>), 2016.
 - Design of experiments related to ice clouds for visiting school classes

SUPERVISION OF MASTER AND PHD STUDENTS

- Main MSc supervisor of Leonie von Terzi (University of Cologne)
- Main PhD supervisor of José Dias Neto, Markus Karrer, and Leonie von Terzi (University of Cologne)
- Member of PhD committee
 - Member of the examination committee for the PhD of Kristof van Tricht, Catholic University of Leuven, Belgium, 2016.
 - Member of the PhD advisory committee within the Geoscience Graduate School at the University of Cologne for Nils Kuchler and Rosa Gierens.

MEMBERSHIPS IN SCIENTIFIC SOCIETIES

- Deutsche Meteorologische Gesellschaft (DMG)
- Deutsche Physikalische Gesellschaft (DPG)

ACTIVITIES AS EDITOR AND REVIEWER

- Associate Editor for Atmospheric Measurement Techniques (since 2019)
- Reviewer for International Peer Reviewed Journals
 - Bulletin of the American Meteorological Society
 - Journal of Atmospheric and Oceanic Technology
 - Journal of Applied Meteorology and Climatology
 - Journal of Geophysical Research - Atmospheres
 - Geophysical Research Letters
 - Monthly Weather Review
 - Quarterly Journal of the Royal Meteorological Society
 - Journal of Quantitative Spectroscopy and Radiative Transfer
 - Atmospheric Chemistry and Physics
 - Atmospheric Measurement Techniques
 - The Cryosphere
 - Meteorologische Zeitschrift
- Reviewer for Research Organizations
 - U. K. Natural Environmental Research Council (NERC)
 - Swiss Science Foundation (SNF)

AWARDS

- 2016 Young Researcher “Emmy-Noether” Grant from the German Research Foundation to establish own working group (5 years)
- 2015 Return Fellowship (6 months) from the German Academic Exchange Service (DAAD)
- 2013 PostDoctoral Fellowship (18 months) from the German Academic Exchange Service (DAAD).
- 2012 Young Academic Award from the Geoverbund Aachen-Bonn-Köln-Jülich (ABC/J), Germany.
- 2008 Best Poster Award, *10th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment*, Florence, Italy.
- 2002 5th place at the National German Youth Research Competition “Jugend forscht”, Subject: *Measurement of the quasi-static atmospheric electric field with a self-developed electric field mill.*