

Dr. Andreas Wagner

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Education

2002

Diplom in hydrology

Albert-Ludwigs-Universität Freiburg im Breisgau, Germany

Minors: Geology, Meteorology

Thesis: Application of a non-calibrated rainfall-runoff-model at the hydrological research areas of the Ostkaiserstuhl

1998

Vordiplom (Intermediate oral exams/ undergraduate degree)

Albert-Ludwigs-Universität Freiburg im Breisgau, Germany

Majors: Physical Geography, Hydrology

Minors: Physics, Chemistry

Research Experience

- Since 2018 Post-Doc at the IMK-IfU (KIT – Campus Alpin) in the DFG-project AtmoWater
- ◆ Dynamical downscaling with WRF
 - ◆ Dynamical downscaling with WRF-Hydro
 - ◆ Data assimilation in WRF / WRF-Hydro
- 2017 Finalisation of the PhD thesis “Spatiotemporal variability of Precipitation – Measurements – Simulations – Limitations”
- 2013 – 2017 Scientific employee at the University of Augsburg, Chair for Regional Climate and Hydrology in the INIS project SYNOPSE.
- ◆ Dynamical downscaling with WRF
 - ◆ Data processing and data analysis
 - ◆ Working with large data sets
 - ◆ Teaching
- 2008 - 2013 Employee at the Engineering Office HYDRON GmbH, Karlsruhe
- ◆ Analysis of climate data (REMO, CLM, WETTREG, CCLM)
 - ◆ Hydrological modeling with LARSIM
 - ◆ Interpolation of meteorological parameters
 - ◆ GIS work und programming (IDL and Fortran)
 - ◆ Project management
 - ◆ Presentation of results for clients
- 2008 Contract for work and labour at the Engineering Office HYDROTEC, Aachen
Comparison of intense rain statistics from radar and point-measurements
- 2006 - 2007 Scientific employee at the meteorological observatory of Hohenpeissenberg (German Weather Service) in the RIMAX-Project URBAS

- ◆ Development and programming of correction algorithms for radar data
 - ◆ Statistical analysis of radar data
 - ◆ Enhancement of the cell-tracking product and Warning-tool CONRAD
- 2002 - 2005 Scientific employee at the meteorological observatory of Hohenpeissenberg (German Weather Service) in the DEKLIM-Projekt APOLAS
- ◆ Development and programming of correction algorithms for radar data
 - ◆ Statistical analysis of different rain sensors (disdrometers, vertical pointing radar, weather radar)
 - ◆ Analysis of dropsize spectra
- 2000 Internship at the Department of Hydrology and Meteorology, Kathmandu, Nepal
- Water quality measurements, sampling und analysis of data (project: IPM, Integrated Pesticide Management; Braunschweig)
- 1999 Internship at the "Versuchsanstalt für Wasserbau", Walchensee / Obernach
- ◆ Outdoor measurements (shipping, surveying and mapping)
 - ◆ Statistical analysis
- 1999 Internship of snow-hydrology near St. Petersburg
- Field measurements and analysis
- 1998 internship at the "Versuchsanstalt für Wasserbau", Walchensee / Obernach
- ◆ Accomplishment of shipping tests by scaled models.
 - ◆ Preparation of site plans by CAD