

# **Lebenslauf**

## Stefan Sperka

### Personal Data:

- Born: 21. Juli 1979 in Bruck an der Mur
- Parents: Ingrid und Giselher Sperka
- Siblings: Elisabeth Sperka
- Marital status: ledig

### Ausbildung:

- 1985 – 1989: Elementary school Thörl
- 1989 – 1993: Bundesrealgymnasium Kapfenberg
- 1993 – 1998: School for higher technical engineering Kapfenberg
- 2000 – 2007: Studium der Meteorologie an der Universität Wien

### Engagements:

- 1999 – 2000: Civil service for the Lebenshilfe Steiermark
- 2005 – 2007: Projectstaff: Project RAOBCORE (FWF-Proj. Nr.: 18120-N10). This project was estimating radiosonde observation corrections for historical records. My job was the development of new algorithms with IDL/FORTRAN.
- 2008 – 2009: Projectstaff: Project MESOCLIM (FWF-Proj. Nr.: 18296-N10). Within this project gridded analyses of the period 1971-2005 were performed using VERA (Vienna Enhanced Research Analysis).
- 2010 – 2012 : Projectstaff: Project Optimization of GIS-based Meteorological Forecast Systems (FWF-Proj. Nr.: L696-N15). This project was carried out to advance the downscaling procedure MetGIS.
- 2013 – now: Technical Director of MetGIS

## **Knowledge**

Computer operating systems: Linux, Windows, MacOS

Programms/programm syntax: FORTRAN, WRF, MATLAB, IDL, Shell-scripting, NCL, CorelDraw, Adobe Creative Suite, JAVA, R, gstat

Driving license: A, B, C, E, F, G

## **Selected Publications**

A Quality-Control and Bias-Correction Method Developed for Irregularly Spaced Time Series of Observational Pressure Data, Stefan Sperka, Reinhold Steinacker, Journal of Atmospheric and Oceanic Technology, Volume 28, Issue 10 (October 2011) pp. 1317-1323

Toward Elimination of the Warm Bias in Historic Radiosonde Temperature Records—Some New Results from a Comprehensive Intercomparison of Upper-Air Data, Leopold Haimberger, Christina Tavolato, Stefan Sperka, Journal of Climate, Volume 21, Issue 18 (September 2008) pp. 4587-4606

MetGIS: Combination of Meteorological and Geographic Information Systems to Produce High Resolution Mountain Weather Forecasts, Gerald Spreitzhofer, Stefan Sperka, Meteorological Applications, in press

Homogenization of the global radiosonde temperature dataset through combined comparison with reanalysis background series and neighboring stations  
Leopold Haimberger, Christina Tavolato, Stefan Sperka  
Journal of Climate, in press  
doi: <http://dx.doi.org/10.1175/JCLI-D-11-00668.1>

## **Selected Conference Contributions**

A Quality Control and Bias Correction Method developed for irregularly spaced Timeseries of Observational Pressure- and Temperature-Data, Stefan Sperka, Reinhold Steinacker, Dieter präsentiert am 3. Österreichischer MeteorologInnentag, 5.-6. 11. 2009, Graz

Comparison of Different Verification Approaches for High Resolution NWP Precipitation Forecasts, S. Sperka and G. Spreitzhofer, präsentiert bei der European Conference on Applications of Meteorology (ECAM), Berlin 2011