

Gerrit Holl

Curriculum vitae

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Personal information

Date of Birth 13 August 1985
Place of Birth Diemen, Netherlands
Nationality Dutch

Education

- 2011 **European Research Course on Atmospheres**, *Université Joseph Fourier, Grenoble, France.*
- 2010 **ESA Earth Observation Summer School**, *European Space Agency, Frascati, Italy.*
- 2009– **PhD. Atmospheric Remote Sensing (expected August 2013)**, *Luleå University of Technology, Kiruna, Sweden.*
- 2007–2009 **MSc. Space Science and Technology**, *Luleå University of Technology, Würzburg, Germany and Kiruna, Sweden.*
Part of European Union funded Erasmus Mundus programme. Double degree with Université Paul Sabatier Toulouse III
- 2003–2007 **BSc. Applied Physics**, *University of Twente, Enschede, Netherlands.*

Master thesis

title *Collocating Satellite-Based Radar and Radiometer Measurements to Develop an Ice Water Path Retrieval*

supervisor Professor Stefan Buehler, Luleå University of Technology, Kiruna Campus

description Ice Water Path (IWP) measurements from the CloudSat radar are collocated with data from the AMSU, MHS and HIRS radiometers at NOAA-15 – NOAA-18 and MetOp-A. The collocations are used to develop an IWP retrieval from radiances.

status finished

Experience

Research

- 2009– **PhD research**, Kiruna, Sweden.
- 2008–2009 **Master research**, Kiruna, Sweden.

- 2008–2009 **BEXUS project “Stratospheric Census”**, Kiruna, Sweden.
 - With an international student team, designed and built a “vacuum cleaner” collecting stratospheric aerosols
 - Selected for balloon flight by the European Space Agency, flown from Esrange, Sweden on 7 October 2008.
 - Presented at the 19th ESA Symposium on European Rocket and Balloon Programmes and Related Research.
 - www.stratospheric-census.org
- 2007 **Thermal aspects of satellite down-scaling**, *Enschede, Netherlands*.
 - Prepared literature study to thermal aspects in satellite down-scaling
 - Supervised by Marcel ter Brake
 - Published in *Journal of Thermophysics and Heat Transfer*

Work

- 2009– **PhD student**, *Kiruna, Sweden*, with Stefan Buehler.
- 2008–2009 **Research assistant**, *Kiruna, Sweden*, with Stefan Buehler.
 research related to master thesis work

Languages

Dutch	excellent	<i>mother tongue</i>
English	very good	<i>IELTS test score 8.0</i>
German	proficient	<i>language classes during secondary education and at University of Würzburg</i>
Swedish	proficient	<i>SFI test score VG</i>
French	reading proficient	<i>language classes during secondary education</i>
Spanish	basic knowledge	<i>language classes at ABF Kiruna, autumn 2008 and spring 2010</i>

Computer skills

Software Linux, Maple, Simulink, LabVIEW, Programming Python, C, Matlab, Java
 ICAP, L^AT_EX

Publications

G. Holl, S. A. Buehler, B. Rydberg, and C. Jiménez. Collocating satellite-based radar and radiometer measurements – methodology and usage examples. *Atmos. Meas. Tech.*, 3(3):693–708, 2010.

M. Siegl, G. Holl, M. Fittock, M. Rudolph, and J. Urbar. A prototype for in-flight acquisition and post-flight analysis of stratospheric aerosols. In *Proceedings of the 19th PAC Symposium*, pages 495–499, 2009.

H. Van Weeren, H. J. M. ter Brake, G. Holl, R. J. Hamann, and S. Price. Thermal aspects of satellite downscaling. *Journal of Thermophysics and Heat Transfer*, 23(3):592–600, 2009.