

Curriculum Vitae for Tobias Nilsson

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Full Name: Jan Tobias Nilsson
Date and Place of Birth: 7 October 1978, in Svenljunga, Sweden
Nationality: Swedish

Employment Record

05/2009–present Project scientist at the Institute of Geodesy and Geophysics, Vienna University of Technology
04/2008–04/2009 Postdoc at Department of Radio and Space Science, Chalmers University of Technology, Göteborg, Sweden
04/2003–03/2008 PhD student position at Department of Radio and Space Science, Chalmers University of Technology, Göteborg, Sweden
07/2001–06/2002 Teaching Assistant, Department of Mathematics, Uppsala University, Uppsala, Sweden

Education

04/2003–03/2008 PhD student, Department of Radio and Space Science, Chalmers University of Technology, Göteborg, Sweden.
PhD degree: March 2008, thesis title: *Measuring and modelling variations in the distribution of atmospheric water vapour using GPS*
Supervisors: Gunnar Elgered and Lubomir Gradinarsky.
Licentiate degree: October 2005, thesis title: *Assessment of Tomographic Methods for Estimation of Atmospheric Water Vapor Using Ground-Based GPS*
08/1998–01/2003 MSc studies (Civilingenjörsprogram) in Engineering Physics, Uppsala University, Uppsala, Sweden
MSc degree: January 2003, thesis title: *On time-variation of the fundamental constants.*

09/1997– Civil Service, Swedish Rescue Services Agency, Skövde, Sweden
12/1997
08/1994– High School (Gymnasium), Marks Gymnasieskola, Skene, Sweden
06/1997

Research Experience

Current and past research topics include:

- Involved in the development of the Vienna VLBI Software (VieVS).
- Investigations of Earth Orientation Parameters, with special focus on high frequency and episodic variations and how to measure these with VLBI.
- Modelling of the effects of atmospheric turbulence on GNSS and VLBI measurements. Using GNSS and other instruments to study atmospheric turbulence.
- Estimating of trends in atmospheric water vapour content using GNSS.
- GNSS water vapour tomography.
- Water vapour radiometry.

Teaching Experience

Chalmers University of Technology: Supervision of lab exercises and project groups in *Electrical Measurement Technique*, *Satellites in Communications and Navigation*, *Satellite Positioning*, and *Basic course in Physics*.

Uppsala University: Supervision of exercises in *Linear Algebra*.

Publications

Author and co-author of 12 peer-reviewed articles (8 as first author), as well as more than 20 other scientific articles and reports. Full publication list available upon request.

References

Can be provided upon request.