Johan Nilsson

Curriculum Vitae

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Personal

Born **1984-03-22**.

Nationality **Swedish**.

Education

2011-2015 **PhD**, *DTU Space, National Space Institute, Technical University of Denmark*, Lyngby, Denmark.
Title: Cryosphere monitoring from satellites and aircraft's

2008-2011 **M.Sc. Radio and Space Science**, *Chalmers University of Technology*, Gothenburg, Sweden.
Title: Multipath mitigation of Carrier-phase GPS position estimates from Helheim glacier: Using new reduced sidereal filtering approach.

Spring-2009 **Physics, Honours Level**, *University of Aberdeen*, Aberdeen, United Kingdom.
European exchange program for university students.

2005-2008 **B.Sc. Electrical Engineering**, *Chalmers University of Technology*, Gothenburg, Sweden.
Thesis: Visualization of Satellite Orbits in 3-Dimensions

Experience

Summer-2013 **External Research Stay**, *Geological Survey of Canada*, Ottawa, Canada.
Dept. contacts: Dr. David Burgess and Dr. Laurence Gray

Spring-2011 **Research Associate**, *Lamont-Doherty Earth Observatory, Columbia University of New York City*, New York, United States.

Summer-2008,2009 **Measurement System Designer and Test Engineer**, *Saab Microwave Systems*, Gothenburg, Sweden.

2003-2004 **National Military Service**, *HMS Carlskrona*, Swedish Navy.
Rank: Petty Officer (NCO), Position: Electro/Engine technician and Fire Fighter

Computer skills

Languages	MATLAB, JAVA, PYTHON, FORTRAN
Platforms	UNIX, Microsoft, Ubuntu, MacOS

Languages

Swedish	**Fluent**
English	**Fluent**
Danish	**Fluent**
German	**Basic Knowledge**

Publications

- Nilsson, J., Vallelonga, P., Simonsen, S.B., Sørensen, L.S., Forsberg, R., DahlJensen, D., Hirabayashi, M., GotoAzuma, K., Hvidberg, C.S., Kjær, H.A. and Satow, K., 2015. Greenland 2012 melt event effects on CryoSat2 radar altimetry. Geophysical Research Letters, 42(10), pp.3919-3926.

- Nilsson, J., Sandberg Sørensen, L., Barletta, V.R. and Forsberg, R., 2015. Mass changes in Arctic ice caps and glaciers: implications of regionalizing elevation changes. The Cryosphere, 9(1), pp.139-150.

- Forsberg, R, Sørensen, LS, Fredenslund Levinsen, J and Nilsson, J 2013, Mass loss of Greenland from GRACE, IceSat and CryoSat. in Proceedings of the CryoSat Workshop. European Space Agency, ESA, Dresden.

- Skourup, H, Einarsson, I, Forsberg, R, Haas, C, Helms, V, Hvidegaard, SM, Nilsson, J, Olesen, AV and Olesen, AK 2012, ESA CryoVEx 2012: Airborne field campaign with ASIRAS radar, EM induction sounder and laser scanner. DTU Space, Kgs. Lyngby. Technical Report, no. 2.

Field Experience

2013 **Svalbard**, *Norway*, 5 days.
Field excursion during the AG-825 course in Glaciology, at The University Centre in Svalbard (UNIS)

2012 **Greenland**, *Denmark*, 7 days.
Participation in ESA's CryoVex validation campaign, monitoring ASIRAS data