

CV Malin Johansson

Postdoc, Department of Earth and Space Science
Chalmers University of Technology

Education	
Date	Feb 2007 – June 2012
Degree	PhD
Main subject	PhD position in Physical Geography focusing on Remote Sensing: Dissertation: Remote sensing of supra-glacial lakes on the West Greenland Ice Sheet. Main supervisor: Ian Brown I used SAR and optical satellite images to analyse the melting of the Greenland Ice Sheet.
University	Stockholm University, Department of Physical Geography and Quaternary Geology
Date	Sep 1999 – Feb 2005
Degree	MSc
Main subject	Master in Physical Oceanography Thesis: The upper ocean circulation – a laboratory experiment. The experiment was conducted at Oslo University under supervision of Anna Wåhlin.
University	Gothenburg University, Department of Physical oceanography
Date	Sep 2002 – Jun 2003 (Great Britain) and Jan 2004 – Jan 2005 (Norway)
Degree	Undergraduate studies
Main subject	Exchange program from Gothenburg University with studies in oceanographic remote sensing and aquaculture.
University	University of Southampton, Southampton, United Kingdom
Professional Experience	
Datum	Jan 2013 – ongoing
Employer	Chalmers University of Technology
Description	Postdoc researcher regarding Sustainable shipping in the Arctic.
Datum	July 2012 – Dec 2012
Employer	Swedish Maritime Administration
Description	Worked as a surveyor on board the R/V Baltica. Collecting and post processing multi-beam and side-scan sonar data. The collection was taking place in the Baltic Sea.
Date	Jan 2008 – June 2012
Employer	Stockholm University, Department of Physical Geography and Quaternary Geology
Description	15-20% teaching position. The teaching mainly concerned Matlab programming, oceanography lecturing and mapping exercises. I have been teaching on courses ranging from first year level until Master's and PhD level. Student supervision on essays in geography level one and two.

Date	Jan 2010 – Jun 2011
Employer	Stockholm University, Department of Physical Geography and Quaternary Geology
Description	Course development and course responsible for Information and Modelling Systems for Land and Water Resources 15 hp. Developed a PhD student course in Matlab programming of 7.5 hp for BBCC. Both courses received good review score from the participants.
Date	Oct 2005 – Jan 2007
Employer	Scottish Environmental Protection Agency (SEPA), Dingwall, Scotland.
Description	I worked as a hydrographer/modeller at the department for marine modelling. I provided advice on, and audit of, environmental monitoring and modelling undertaken in support of the regulatory assessment of discharges to Scotland's inshore waters.
Relevant Computer Skills	Microsoft office, Windows, Adobe, Matlab, ENVI, PCI Geomatica and Definines Developer all on advanced level. ArcGIS, Erdas and Surfer imaging on basic level.
Language	Swedish (mother tongue), English (fluent both oral and written), German (basic both oral and written).
Peer-reviewed articles (5)	<p>Leeson A.A., Shepherd A., Sundal A., Johansson A.M., Selmes N., Briggs K., Hogg A.E., Fettweis X., 2013, A comparison of supraglacial lake observations derived from MODIS imagery at the western margin of the Greenland ice sheet, Journal of Glaciology, Vol. 59(218), pp. 1179-1188, http://dx.doi.org/10.3189/2013JoG13J064</p> <p>Johansson, A.M. and Brown I.A., 2013, Adaptive classification of supra-glacial lakes on the west Greenland Ice Sheet. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Vol. 6(4), pp. 1998-2007, 10.1109/JSTARS.2012.2233722.</p> <p>Johansson, A.M., Jansson P. and Brown I.A., 2013, Spatial and temporal variations of lakes on the Greenland Ice Sheet. Journal of Hydrology, Vol. 476, pp. 314-320, http://dx.doi.org/10.1016/j.jhydrol.2012.10.045</p> <p>Johansson A.M., Brown I.A., 2012, Observations of supra-glacial lakes in west Greenland using winter wide-swath synthetic aperture radar, Remote Sensing Letters, Vol. 3, No. 6, pp. 531–539, http://dx.doi.org/10.1080/01431161.2011.637527</p> <p>Wählin, A., Johansson, A.M., Aas, E., Broström, G., J.E.H. Weber and J. Grue, 2010. Horizontal convection in water heated by infra-red radiation and cooled by evaporation. Tellus A, 62, 154 - 169. 10.1111/j.1600-0870.2009.00427.x</p>
Papers in preparation (1)	Johansson A.M., Berg A, Eriksson LEB, 2014, L- and C-band SAR estimations of ice concentration during Arctic summer and winter.
Conference Proceeding (7)	<p>Johansson A.M., Berg A., Eriksson L.E.B., 2014, Sea ice concentration and sea ice drift for the Arctic summer using C- and L-band SAR, Geophysical Research Abstracts, Vol. 16, 10440.</p> <p>Johansson A.M., Hassellöv I-M., Eriksson L.E.B., Lindgren F., Berg A., Carvajal G. and Landquist H., 2014, Remote sensing for risk analysis of oil spills in the Arctic Ocean, Geophysical Research Abstracts, Vol. 16, 10355.</p> <p>Johansson, A.M., Eriksson L.E.B., Hassellöv I-M., Landquist H., Berg A., and Carvajal G., 2014, Remote sensing for Risk Analysis of oil spills in the Arctic Ocean, Proceedings of ESA Living Planet Symposium 2013 9-13 September 2013, Edinburgh, Great Britain, ESA SP-XXX, 8 pp.</p>

Presentations

- Johansson A.M., Jansson P and Brown I.A., 2012, Supra-glacial lake evolution and variations on the Greenland Ice Sheet, *Geophysical Research Abstracts*, Vol. 14, 11608.
- Johansson A.M., Jansson P and Brown I.A., 2011, Birth and demise of lakes on the Greenland Ice Sheet. *Geophysical Research Abstracts*, Vol. 13, 10613.
- Johansson, A.M., Brown I.A., and Jansson P., 2010, Multi-temporal, multi-sensor investigations of supra-glacial lakes on the Greenland Ice Sheet, *Proceedings of ESA Living Planet Symposium 2010 28 June - 2 July 2010*, Bergen, Norway, ESA SP-686, 8 pp.
- Wåhlin A. K., Ericsson A. M., Aas E., Weber J.E., 2005, Horizontal convection in water heated by infra-red radiation and cooled by evaporation (solicited)., *Geophysical Research Abstracts*, Vol. 7, 04211.
- Johansson A.M., Berg A., Eriksson L.E.B., 2014, Sea ice concentration and sea ice drift for the Arctic summer using C- and L-band SAR, *European Geosciences Union*, Vienna, Austria, April 27 – May 2, 2014. *Poster presentation*.
- Johansson A.M., Hassellöv I-M., Eriksson L.E.B., Lindgren F., Berg A., Carvajal G. and Landquist H., 2014, Remote sensing for risk analysis of oil spills in the Arctic Ocean, *European Geosciences Union*, Vienna, Austria, April 27 – May 2, 2014. *Poster presentation*.
- Johansson, A.M., Hassellöv I-M., Eriksson L.E.B. and Landquist H., 2014, Risk analysis of oil spill in the Arctic Ocean, *Arctic Frontiers 22-24 January 2014*, *Poster presentation*.
- Johansson, A.M., Eriksson L.E.B., Hassellöv I-M., Landquist H., Berg A., and Carvajal G., 2014, Remote sensing for Risk Analysis of oil spills in the Arctic Ocean, *ESA Living Planet Symposium 2013 9-13 September 2013*, *Oral presentation*.
- Johansson A.M., Jansson P and Brown I.A., 2012, Supra-glacial lake evolution and variations on the Greenland Ice Sheet, *European Geosciences Union*, Vienna, Austria, April 22-27, 2012. *Poster presentation*.
- Johansson A.M., Jansson P and Brown I.A., 2011, Birth and demise of lakes on the Greenland Ice Sheet. *European Geosciences Union*, Vienna, Austria, April 3-8, 2011. *Poster presentation*.
- Johansson, A.M., Jansson, P. and Brown, I.A., 2011. Supra-glacial lake evolution and lake variations on the Greenland Ice Sheet, *International Glaciological Society - Nordic branch meeting*, Oslo, Norway, October 28-30, 2011. *Oral presentation session 5:4*.
- Johansson, A.M., Jansson P., and Brown I.A., 2011, Studier av ytvattenssjöar på Grönland genom att använda fjärranalys, *Fjärranalysdagarna (Remote sensing conference)*, Stockholm, Sweden, March 14-15, 2011. *Poster presentation*.
- Johansson, A.M. and Brown, I. A., 2010. Using SAR images to investigate supra-glacial lakes on the Greenland Ice Sheet, *ESA Living Planet Symposium*, Bergen, Norway, June 28 – July 2, 2010. *Poster presentation*.
- Johansson A.M., and Brown I.A., 2010, Identification of supra-glacial lakes on the Greenland ice sheet using satellite images, *Swedish National Space Board annual meeting*, Stockholm, Sweden, March 24-25, 2010. *Poster presentation*.
- Johansson A.M., and Brown I.A., 2009, Investigating supra-glacial lakes using satellite images, *Space and the Arctic*, *European Space Agency Workshop*, Stockholm, Sweden, October 20-21, 2009. *Poster presentation*.
- Johansson A.M., and Brown I.A., 2008. Radiometric slope correction of Synthetic-Aperture Radar Images. *JASE 2007/2008 Expedition Progress workshop*, *National Institute of Polar Research*, Tokyo, Japan, December 4, 2008. *Oral presentation*.
- Ericsson A.M., and Brown I.A., 2008, Radiometric correction of SAR images over glaciers and ice sheets, *International Glaciological Society symposium on Radioglaciology*, Madrid, Spain, June 9-13, 2008. *Poster presentation*.

	Ericsson A.M and Brown I.A., 2008, Radiometric slope correction of Synthetic-Aperture Radar Images, Interdisciplinary Science Workshop - Early Career Scientists IPY, May 7-9 2008, <i>Oral presentation.</i>	
Fieldwork experience		
August 2013 – September 2013 (2 weeks)	R/V Lance, Fram Strait Sea ice data gathering, CTD data collection, setup of mooring instruments	
July 2012 – December 2012	R/V Baltica, Baltic Sea, Sweden Working as a surveyor onboard the R/V Baltica. Collecting and post processing multi-beam and side-scan sonar data.	
2011 (2 weeks), 2010 (1 week)	Kangerlussuaq, Greenland Ground truth measurements of supra-glacial lakes and participating in lake monitoring measurements.	
2007 – 2009 (1-2 weeks every year)	Blåmansisen, Norway Fieldwork at Blåmansisen, field assistant in firn coring, participating in the monitoring measurements.	
2006 (2 days)	Aberdeen, Scotland Tracing the source of radioactive leak measurements	
Memberships and Public Service Activities	European Geophysical Union (EGU) The Association of Polar Early Career Scientists (APECS)	2011- 2007-
Recently attended conferences/workshops /symposium/meetings	EGU, Wien, Austria SRS annual meeting Uppsala Fjärranalysdagarna (Remote sensing conference), Stockholm, Sweden. IGS- Nordic branch meeting, Oslo, Norway	2014 2014 2013 2010
Scholarships	SIMO (Stöd i mindre omfattning), Swedish Polar Secretariat, logistical support for collection of validation data. Bert Bolin Climate Center travel stipend Mannerfelt Foundation Albert and Maria Bergström Foundation Liljevalch Foundation Althin Foundation Wallenberg travelstipend YMER-80 Foundation Rhodins Foundation Rymdstyrelsen Lagrelus Foundation International studies (Erasmus) International studies (Nordlys)	2013 2012, 2011, 2010, 2009 and 2008 2011 2007, 2010 2008, 2010 2010 2008, 2009 and 2010 2009 2009 2007, 2008 2007 2002 2004

<p>Further education</p> <p>Date Mars 2005 - Juni 2005</p> <p>Kurs Biogeosfärsdynamiska processer, 10 poäng.</p> <p>Universitet Lunds universitet</p> <p>Date 2007</p> <p>Description University pedagogy 3 hp.</p> <p>Date 2006</p> <p>Description RIB-boat training (2.5 days) VHF-equipment training (1 day) Four-wheel drive (2 days) First-aid (5 days)</p>	
<p>Workshop responsibility</p>	<p>Chair at the Arctic Frontiers session; Part III Shipping & Offshore in the Arctic: Risk assessment.</p> <p>As a member of APECS (Association of Polar Early Career Scientists) I was responsible for and co-organized a workshop for early carrier polar scientists at Utö May 7-9 2008. Funding for this workshop was provided by Vetenskapsrådet. The workshop was called: "Interdisciplinary Science Workshop - Early Career Scientists IPY".</p>
<p>Responsibilities</p>	<p>Organizer of the marine lunch, a meeting platform between marine researchers at Chalmers and Gothenburg University, since 2013.</p>
<p>Memberships</p>	<p>Steering member of APECS Sweden since 2013</p> <p>PhD student representative in the scholarship committee at Stockholm University, March 2007 – June 2012.</p> <p>PhD student representative at the undergraduate studies council, Stockholm University, Jan 2008-Juni 2012.</p> <p>Vice-chair of the PhD council Department of Physical Geography and Quaternary Geology 2011.</p> <p>Member of the PhD council Department of Physical Geography and Quaternary Geology 2008-2010.</p> <p>Mentor for exchange students, Gothenburg University, Aug-Sept 2003.</p> <p>Student member within the undergraduate studies council, Gothenburg University, Sept. 1999-June 2002.</p>