

***Personal data***

Born: April 24, 1969 in Victoria BC, Canada.  
Citizenships: Danish, Canadian, Swedish.  
Languages: Danish, English, Swedish.  
Phone: +46 (0)31 751 89 82  
e-mail: lars.arneborg@smhi.se

***Academic record***

1994 M.Sc. (Civil Engineering/hydrodynamics), Technical University of Denmark.  
2000 Ph.D. (Physical Oceanography), University of Gothenburg. Supervisor: Anders Stigebrandt. Title of thesis: Oceanographic studies of internal waves and diapycnal mixing.  
2007 Associate professor, University of Gothenburg  
2018-2021 Adjunct professor, University of Gothenburg

***Professional record***

2018-present Head of oceanography unit, Department of Research and Development, Swedish Meteorological and Hydrological Institute.  
2016-2018 Research leader at the Department of Research and Development, Oceanography, Swedish Meteorological and Hydrological Institute.  
2010-2016 Lecturer (Universitetslektor) at the Department of Marine Sciences, University of Gothenburg.  
2008-2010 Associate Professor, University of Gothenburg (Docent title 2007)  
2004-2008 Junior Researcher (Forskarassistent), University of Gothenburg.  
2000-2003 Researcher in EU project (OAERRE), University of Gothenburg.  
1994-1996 Researcher and consultant at Danish Hydraulic Institute.

***Leaves***

In total 20 months parental leave in the period 2006-2009.

***Supervision***

- PhD thesis by Amanda Nylund, Chalmers Technical University. Characterising turbulent ship wakes from an environmental impact perspective, August 2023. Co-supervisor.
- PhD thesis by Julia Muchowski, Stockholms University. Uncovering Ocean Mixing near Rough Bathymetry: Using Broadband Acoustics. April 2023. Co-supervisor.
- PhD thesis by Sam Fredriksson, The air-water gas transfer velocity during low wind conditions, April 2016. Main supervisor.
- Masters theses (30-60 hp each): Klara Mattsson, 2018, Natalia Markowska, 2016, Pär Jansson 2014, Ambjörn Andersson 2014, Ola Kalén, 2010, Pernilla Johansson, 2010, Magnus Nilsson, 2010, Sofia Åström, 2009, Maria Andersson, 2007, Karolina Falk, 2005, Torsten Hanson, 2005, Erik Gustafsson, 2005, Gunilla Andrée, 2001. Bachelor thesis (15 hp): Sandra Lagnevall, 2015, Alexandra Iantchenko, 2014, Pär Jansson, 2012, Daniel Sandberg, 2012, Ola Kalén, 2009.

### ***Opponent assignments***

- 2023: Member of examination committee for Ana Isabel Ayala Zamora, Uppsala University.
- 2022: Member of examination committee for Martin Mohrmann, Gothenburg University.
- 2020: Reserve member of examining committee for Anis Elyouncha, Chalmers University.
- 2018: Pre-examinor of Antti Westerlunds PhD thesis, FMI
- 2017: Faculty opponent for Chris Lappe, Warnemünde.
- 2017: Faculty opponent for Maris Skudra, Tallin.
- 2014: Member of examining committee for Léon Chafik, Stockholm University.

### ***Awards, commissions and advisory groups***

- 2021 - : Member of ICOS Sweden steering committee.
- 2021 – 2022 : Member of working group for FORMAS national research program for marine and inland waters.
- 2018 - : Member of advisory board for The Norwegian Argo Infrastructure (NorArgo)
- 2018: Invited attendee at Science for Ocean Actions Conference, 19-20 Nov. 2018 in Bergen
- Member of Department Council, Department of Earth Sciences, 2012-2014
- Member of Advisory Board, Sven Lovén Centre for Marine Sciences, 2012-2014
- Deputy Head of Department, 2013.
- Member of proposition group for head of department, 2012.
- Board member of Bornö Institute for Ocean and Climate Studies, 2013-present
- Awarded with the Crafoord Research Stipend, Swedish Royal Academy of Science, 2010

### ***Scientific grants, main applicant***

- 2020-2022: Syresättning - modellstudie: Utvärdera restaurering av Östersjöns miljö genom syresättning av syrefria bottnar. 2.535 mSEK. SwAM.
- 2014-2015: (with Göran Broström) Red10 grant from the Faculty of Science for Lake Vänern research, 1.3 kSEK.
- 2010: Project "Ocean induced glacier melting in Greenland", accepted for operational planning with high priority by the Swedish Research Council, and Swedish Polar Research Secretariat, dnr. 2010-6184.
- 2010 - 2013: Financial support from the Faculty of Science, GU, for one Ph.D. student for air-sea gas exchange research.
- 2009 – 2011: Project funding and 75% salary for 3 years (Lektorsanställningsbidrag), Swedish Research Council, grant 621-2008-2689. 4050 kSEK.
- 2008 – 2010: Instrumentation grant from the KAW foundation. Head applicant. Co-applicants: Anders Stigebrandt and Göran Björk. 6500 kSEK.
- 2006 - 2008: Project funding for "Entrainment into dense bottom currents", Swedish Research Council, grant 621-2005-4027. 324 kSEK.
- 2004 - 2008: Salary as young researcher (Forskarassistent) and project funding, Swedish Research Council, grant 621-2003-2620. 3094 kSEK.
- 1996 - 1999: Salary for 3 years of Ph.D studies in Göteborg, Danish Research Academy, J.nr. 1996-154-047

***Other grants and contracts***

- 2023-2024: co-applicant on The Nordic CrOSphere Digital Twin (NOCOS DT). Main applicant Timea Biro, CSC, Finland. Nordiska Ministerrådet.
- 2023-2026: Co-applicant on A new forecast framework for algae bloom hazard to secure future water supply and development of tourism on Gotland. Main applicant Inga Koszalka, MISU, SU. Formas.
- 2023-2025: Co-applicant on Climate Invasives project. Main applicant Lena Granhag, Chalmers. Biodiversa+
- 2022-2024: Co-applicant on NorScen project. Main applicant Geir Ottersen, Havsforskningsinstituttet Bergen. Nordiska Ministerrådet.
- 2021-2025: Co-applicant on Invasive Species Action Plan. Main applicant Lena Granhag, Chalmers. Naturvårdsverket.
- 2018-2020: Co-applicant on Elin Almroth Rosells SGU project on dispersion of pollutants from fiberbanks. 1660 kSEK.
- 2011-2014: Co-applicant on David Bastvikens VR project on air-lake gas exchange (Diar. Nr. 2011-3575): 200 kSEK for GU.
- 2013: Coapplicant on Anna Wåhlins VR projekt (Diar. Nr. 2013-5273, 950 kSEK/year, 2014-2017).
- Investigation of currents around Orust for the Municipality of Orust (Fyrbodals kommunalförbund): 162 kSEK.

***Selected teaching***

- Ocean Mixing (OC4910, 15 hp). Graduate course. Course leader, 2012, 2014.
- Physical Oceanography II (OCM200, 7.5 hp). Advanced course, Course leader, 2014-2016.
- Physical Oceanography I (OCM100, 15 hp). Advanced course, 2013-2015.
- Marina undersökningar, redskap och metoder (MAR103, 15 hp). Basic course, Course leader, 2011.
- Kustekosystem 1 - Introduktion till kustekosystem (MAR107, 15 hp). Basic course, 2012, 2013.
- Hydromekanik (OC710, 15 hp). Advanced course, 2005-2012.
- Vattenundersökningar (NOC040, 15 hp). Basic course, Course leader, 2009.

***Publications in international peer reviewed journals***

Web of science citation report: 51 publications. Cited 1381 times. H-index: 23.