## **Curriculum Vitae**

#### AGATHA M. DE BOER

Associate Professor in Physical Oceanography and Paleoceanography

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University, Stockholm 106 91, Sweden

# Higher education

2011	Postgraduate Certificate in Higher Education Practice, University of East Anglia
2003	Ph.D. in Physical Oceanography, Florida State University, FL, United States
1997	M.Sc. coursework in Nuclear Reactor Physics, Potchefstroom University, South Africa
1994	B.Sc. Honors, Physics, University of Pretoria, South Africa
1993	B.Sc. (cum laude), Physics, Mathematics, University of the Orange Free State, South Africa

#### **Professional experience**

2011-present	Associate Professor, Department of Geological Sciences and the Bolin Centre for Climate
	Research, Stockholm University, Sweden
2010	Guest Lecturer. Gothenburg University, Sweden.
2007-2011	Research Council UK fellow, University of East Anglia, UK
2006-2007	Senior Research Associate, Environmental Science Department, University of East Anglia,
2003-2006	Postdoctoral fellow in Program for Atmospheric and Oceanic Sciences, Princeton University,
	USA
1998-2003	Graduate Research Assistant, Florida State University, USA
1994-1997	Senior Physicist, Eskom, South Africa. Responsible for nuclear reactor physics and radiation
	protection studies.

#### **Parental leave:**

Worked four months at 0% full time and nine months at 20% full time.

#### **Courses and workshops in education:**

2019	Short course on the Nya online system for student applications.
2018	Workshop on the Ladok online system for course announcements.
2018	12 steps to succeed as a teacher
2018	What is academic teachership? Workshop for experienced university teachers in the Natural
	Science faculty
2018	Online short course on using the Athena educational platform
2012	Short course on using the Mondo educational platform
2010	Best Practice in Research Supervision, facilitated by Queens Mary College (London)
	Education and Staff Development Centre, UK.
2010	Advising Students, Centre for Staff Education and Development, UEA, UK.

#### **Teaching**

2019 Quantitative Methods in Geoscience 1<sup>st</sup> year level, course director;

Masters in Climate Science, director of studies;



	Paleoceanography and Paleoclimatology I, 2nd year level, teacher;
	Paleoclimatology and the Ocean System distance course, teacher.
2018	Quantitative Methods in Geoscience 1 <sup>st</sup> year level, course director;
	Masters in Climate Science, director of studies;
	Paleoceanography and Paleoclimatology I, 2nd year level, teacher;
	Paleoclimatology and the Ocean System distance course, teacher;
2017	Paleoceanography and Paleoclimatology I, 2nd year level, teacher;
	Paleoclimatology and the Ocean System distance course, teacher.
2016	Paleoceanography and Paleoclimatology I, 2nd year level, teacher;
	Paleoclimatology and the Ocean System long distance course, teacher;
2015	Paleoceanography and Paleoclimatology I, 2nd year level, teacher;
	Paleoclimatology and the Ocean System distance course, teacher.
2014	Marine Geology II, 3rd year course, teacher;
	Paleoclimatology and the Ocean System distance course, teacher;
	Paleo-oceans and the Paleoclimate System, Masters level, teacher.
2013	Marine Geology II, 3rd year level, teacher;
	Paleoceanography and Paleoclimatology, Masters level course, teacher.
2012	Marine Geology II, 3rd year level, teacher;
	Paleoceanography and Paleoclimatology, Masters level course, teacher.
2011	Atmosphere and Oceans, 1st year level, course director;
	Oceanography 2 <sup>nd</sup> and 3 <sup>rd</sup> year Field Course in Oban Scotland, teacher.
2010	Atmosphere and Oceans, 1st year level, course director;
	First year environmental field course in Slapton, UK, teacher.
2009	Oceanography 2 <sup>nd</sup> and 3 <sup>rd</sup> year field course in Oban Scotland, teacher.
2008	Introductory Computing for Environmental Scientists, course director.
2007	Basic Environmental Physics, 1st year level, teacher.

#### Postdoctoral research supervision

2015-2019	David Hutchinson, Stockholm University
2016-2018	Part-time: Catherine Bradshaw, UK met office.

#### Ph.D. student supervision

2010-2014 Robert Graham, Stockholm University

Received award for best Ph.D. thesis in the Faculty of Science.

2008-2012 Matthew Thomas, University of East Anglia (currently at GFDL/NOAA)

#### Masters project supervision

Thomas Postans

#### **Undergraduate project supervision**

2011 Rickard Warren

2010 Abigail Phillips, Thomas Stammer, James Wren, Jenna McGregor, and Abigail Mason

Field work

2009 JC32 South Atlantic section. Performed dissolved inorganic carbon and alkalinity

measurements.

2001 SFTREII research cruise to measure mixing in salt finger regions.

#### Awards and grants

2018	Docent travel stipend, 12 000 sek.
2016	Swedish Research Council project grant, 3 200 000 sek.
2013-2016	Various grants from Bolin Center for travel and publications, ~100 000 sek
2010	UEA Teaching fellowship (~50 000 sek)
2010	Gothenburg University Guest Lectureship (~120 000 sek)
2009	UK Royal Society networking grant (~47 000 sek)
2007	RCUK academic fellowship
2002	Outstanding Graduate Student Award, Dept. of Oceanography, FSU, USA
1990-1993	Full Study Scholarships from Eskom (Electricity Utility Company), South Africa
1990-1993	Academic Scholarships, Uni. of Orange Freestate and Uni. of Pretoria, South Africa

International	leadership and service:
2019-present	Vice President of the International Association of the Physical Sciences of the Ocean (IAPSO). IAPSO is a subassociasion of the International Union of Geodesy and Geophysics (IUGG) andthe the peak international scientific body for physical and chemical oceanography. For more information, see: http://iapso.iugg.org/.
2015-2019	Member of executive committee of the International Association of the Physical Sciences of the Ocean (IAPSO).
2018	Co-organized an international workshop on the Miocene Climate for about 60 participants, Stockholm.
2019	Lead-convener for symposium on Meridional Overturning Circulation in the Ocean at the IAPSO assembly, Montreal, Canada
2018	Co-organized an international workshop on the Middle Miocene Climate for about 30 participants, Stockholm.
2018-present	Convener of a session on the Meridional Overturning Circulation at IAPSO assembly, Canada to be held July 2019.
2017	Co-organized an international workshop on the Eocene Oligocene Transition for about 30 participants, Stockholm.
2017	Co-convener for symposium on Meridional Overturning Circulation in the Ocean at the IAPSO assembly, South Africa
2014	Organized an international workshop on the Southern Ocean Dynamics for about 30 participants, Stockholm.
2007-2013	Served on the leadership board of the international Earth Science Women's Network (ESWN). I lead the European branch of ESWN. In that capacity I organized annual ESWN receptions at

EGU between 2008 and 2013 and an ESWN networking workshop at EGU 2013.

2011 External opponent, Ph.D. defense, Helene Langehaug, Univeristy of Bergen. Co-organized Royal Society UK-Australia Frontiers of Science meeting for international 2010

collaboration between promising young scientists.

2010 Public lecture for the Birkberk Ecology Society, Imperial College, London.

Continuous Reviewed articles and books for: Nature Geoscience, Nature Communications, Geophysical

> Research Letters, Journal of Physical Oceanography, Journal of Geophysical Research-Oceans. Atmosphere-Ocean, Reviews in Geophysics, Ocean Science, American Geophysical Union Solas book, Global Biochemical Cycles, Earth System Dynamics, Paleoceanography, Climate Dynamics, Philosophical Transactions of the Royal Society, Geology, Willey

publishers.

Reviewed for research councils: US national science foundation, UK national environmental

research council.

PhD external examiner: Alba Legarda Lissari (defense 2019, University of Zaragoza, Spain).

Helene Reinertsen Langehaug (defense 2011, University of Bergen, Norway).

#### **National scientific leadership and service:**

2016-present Serve on the Swedish National Committee for Geophysics (SNG) which is a subcommittee of

the Swedish Royal Science Academy. For more information, please see:

http://www.geofysiska.se/index.html

2018 Elektor from Stockholm University for the Swedish Research Council.

#### **University leadership and service:**

2018-present	Director of studies of Masters in Climate Science
2018-2019	Standby on Board of Department of Geological Sciences
2018-present	Department representative in Section for Earth and Environmental Sciences
2013-present	Founder and manager of the Bolin Centre Mentoring Program that provides cross-
	departmental mentorship annually to 20-30 junior scientists.
2013-2019	Co-leader of Bolin Centre for Climate Research, Research Area 1 "Atmosphere and Ocean
	Dynamics and Climate". We organized workshops and administrate an annual budget of 400
	ksek between over 100 members. More information at: https://bolin.su.se/index.php/ra1-ocean-
	atmosphere-dynamics-and-climate
2016-2017	Serve on equality and equal opportunity group for Section for Earth and Environmental
	Sciences
2014-2016	Outreach: Helped out at annual Bolin Days for Children. I developed experiments in a water
	tank on a rotating table and used salt water, dye, and ice cubes to help children get an intuitive
	feel for oceanic and atmospheric phenomena.
2010-2011	Serve on Ph.D. Studentship election panel for department of Environmental Science,
	University of East Anglia, UK (previous position).
Continuous	Ph.D examining committee: Maxime Ballarotta (defense 2013), Raza Ranjha (defense 2013),
	Joakim Kjelsson (defense 2014), Per Pemberton (defense 2014).
	Licentiate examining committee: Pedro Petro (defense 2016).
	PhD defense chair: Daniele Reghellin (defense 2019).

### **Presentations and lectures**

<b>Presentations</b>	and lectures
All oral presentation unless otherwise indicated. Invited talks are in italics.	
2019	Presention on Arctic flow at IAPSO assembly, Montreal, Canada
	Presention on Eocene-Oligonece Transition at IAPSO assembly, Montreal, Canada
2018	Crafoord Price Symposium invited speaker, Stockholm, Sweden.
	Seminar at Oxford University, Oxford, UK
	Seminar at British Antarctic Survey, Cambridge, UK
	Presentation at workshop on Middle Miocene Climate, Stockholm, Sweden
	Presentation at workshop on Arctic Dynamics, Stockholm, Sweden
2017	Presentation at IAPSO assembly, Cape Town, South Africa
	Presentation at workshop on Southern Ocean and Climate, Stockholm, Sweden
	Poster presentation at Paleoclimate Model Intercomparison Project meeting, Stockholm,
	Sweden
2016	Presentation at workshop on Glacial Climate Puzzles, Stockholm, Sweden
	Poster presentation at International Conference on Paleoclimate, Utrecht, Netherlands
2015	Presentation at workshop on Atlantic Meridional Overturning, Stockholm, Sweden
	Presentation at IAPSO assembly, Prague, Czech republic.
2014	Presentation at workshop on Southern African Rainfall, Stockholm, Sweden.
	Presentation at workshop on Southern Ocean, Stockholm, Sweden.
2013	Presentation at Gateways Conference, Jerusalem, Israel.
	Poster presentation at EGU, Vienna, Austria
	Presentation at IAPSO assembly, Gothenburg, Sweden
	Presentation at Bolin Days, Stockholm, Sweden.

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	Presentation at Ocean Sciences Meeting, Salt Lake City, USA
	Seminar at L'OCEAN, Paris, France
	Presentation at workhop on Walin Framework, Stockholm, Sweden
	Poster presentation, Agulhas Conference, Cape Town, South Africa
2011	Seminar at Cambridge University, Cambrigde, UK,
	Seminar at Proudman Oceanographic Laboratory, Liverpool, UK,
	Seminar at Southampton University, UK.
	Seminar at University of East Anglia, Norwich, UK
2010	Seminar at Gothenburg University, Gothenburg, Sweden;
	Seminar at Imperial College, London, UK;
	Seminar at UK Met Office, Exeter;
	Seminar at Stockholm University, Sweden.
	Public lecture Birkbeck, London, UK
2009	Presentation at UK-RAPID workshop. Reading, UK.
	Seminar at Hermanus Magnetic Observatory, Hermanus, South Africa
	Presentation at IAPSO assembly, Montreal, Canada
	Presentation at UK ocean modelling meeting, Oxford, UK
2008	Presentation at UK Challenger meeting, Bangor, UK
	Presentation at EUA_Cefas day, Norwich, UK
	Presentation at Ocean Sciences Meeting, Orlando, USA
	Seminar at Yale University, Ocean Forum, USA
2007	Seminar at Bern University, Switserland
	Seminar at British Antarctic Survey, Cambridge, UK
	Presentation at IAPSO assembly, Perugia, Italy
	Seminar at Postdam Institute for Climate Research, Postsdam, Germany
	Seminar at Reading University, Reading, UK
2006	Presentation at workshop on Nordic Seas, Bergen, Norway
	Seminar at University of East Anglia
	Seminar at Southampton Oceanography Institute, UK
	Presentation at Rapid meeting, Birmingham, UK
2005	Seminar at Geophysical Fluid Dynamics Laboratory, Princeton, USA
	Presentation at EGU conference, Vienna, Austria
2004	Presentation at Proper workshop, Amsterdam, Netherlands
2003	Presentation at Physical Oceanography Dissertation Symposium, Hawaii, USA
	Presentation at EGS conference, Nice, France
Invited talk	as and service declined due to travel related restrictions
2018	Norwegian Research Council Panel
2018	Invited to PAGES C-SIDE workshop, Vancouver, Canada
2017	Moderating panel for UK National Environmental Research Council, UK
2017	

Thesis defense committee for Ola Kalén, University of Gothenburg, Sweden

Invited to workshop on Climate variability in Antarctica and Southern Ocean, La Jolla, USA

Invited speaker at American Geophysical Union, San Francisco, USA

Norwegian Research Council Panel

Invited speaker at Leopoldina symposium, Germany

Presentation at Lund University, Lund, Sweden

2012

20172017

2017

2015

2015