Jan Jaap Meijer

Curriculum Vitae

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I am an enthusiastic and motivated observational oceanographer who is deeply connected to the ocean not only via my degree in Meteorology, Physical Oceanography and Climate, but also via my personal interests in surfing and sailing. During my degree I successfully combined my studies with internships and part time jobs, journeys and other commitments showing myself to be self-motivated, organised and being able to work with others. I have a clear, open mind and use my communication and numeracy skills to solve societal and environmental problems for a sustainable future.

Personal Data

Date of birth	3 March 1986
Place of birth	Winterswijk, the Netherlands
Nationality	Dutch

Education

2017 – Present **PhD candidate in Quantitative Marine Science**, University of Tasmania, Hobart, Australia.

2014 **Master of Science in Meteorology, Physical Oceanography and Climate**, Utrecht University, the Netherlands.
Electives: Geophysical Fluid Dynamics, Ocean Waves and Physics of Coastal Systems, Ice and Climate

2012 **Visiting student at the department of Physical Oceanography**, Royal Netherlands Institute for Sea Research (NIOZ), Texel, the Netherlands.
Elective: multidisciplinary sea-going oceanography course
Project: Making, analysing and interpreting observations, "Temperature profiles along the Southern Boundary of the North Sea - measurements by seals".

2012 **Visiting student at the department of Coastal Engineering**, Delft University of Technology, the Netherlands.
Electives: Coastal Dynamics, Coastal Zone Management and Waterpower Engineering

2011 **Bachelor of Engineering in Aeronautical Engineering**, Inholland University, Delft, the Netherlands.
Major: Technical Engineering
Minor: Lightweight structures design and Aerospace Technology

PhD Topic

Supervisors Prof. dr. N.L. Bindoff, dr. S.R. Rintoul and dr. H.E. Phillips

Description An observational study of the role of standing meanders in slowing the Antarctic Circumpolar Current and transporting heat to Antarctica.

Masters Thesis

Title *Modelling the formation of coral cays on platform reefs.*

Supervisors Prof. dr. H.E. de Swart, dr. M. van der Vegt and dr. ir. A. van Dongeren

Description A modelling study to investigate the effects of wave dissipation, wave-generated currents and sediment transport on the formation and positioning of coral cays on platform reefs.

Summer/ winter schools

2018 **Winter school in Climate Extremes and High Impact Weather**, Australian National University, Canberra, Australia.

2011 **Summer school in Physics of the Climate System**, Utrecht University, the Netherlands.

Experience

Research experience

2015 – 2016 **Research Associate**, Stockholm Environment Institute (SEI), Stockholm, Sweden, `http://www.sei-international.org`.
A case study in which a set of coastal risk tools developed in the RISC-KIT project are applied, to assess the Kristianstad Municipality coastline in Sweden on flooding and erosion during extreme storm events.

2013 – 2014 **Graduate intern at the department of Sediment transport and Morphology**, Deltares - *institute for applied research*, Delft, the Netherlands, `http://www.deltares.nl`.
A research study addressing the formation of coral cays on platform reefs.

Sea-going experience

2018 **Scientist**, RV Investigator, Polar Front meander downstream of the South East Indian Ridge, 16 October – 16 November 2018.
Assisting in planning of CTD locations, operating CTD casts/ sampling Niskin bottles and analysing the incoming data.

2015 **Scientist**, RV Pelagia, Rainbow thermal field on the Mid-Atlantic Ridge near the Azores, 6 - 14 April 2015.
Assisting in recovering deep-sea moorings, controlling CTD casts during "yo-yo" and "tow-yow" surveys and a first attempt in analysing the recovered mooring datasets.

2008 – 2015 **Seaman at the deck department**, Rederij Halfland - *shipping company*, Rotterdam, the Netherlands, `http://www.halfland.nl`.
Assisting steersman and captain on two and three-masted sailing ships.

Teaching experience

2017 **Teacher in Physics**, Lyceo, Leiden, the Netherlands, `http://www.lyceo.nl`.
Giving instruction and additional attention to secondary school students.

2015 **Teacher in Physics and Mathematics**, Lyceo/ Inwijs, Leiden, the Netherlands, `http://www.lyceo.nl` / `http://www.inwijs.nl`.
Giving instruction and additional attention to secondary school students.

Engineering experience

2011 **Undergraduate intern at the department of Research and Development**, CTC GmbH *subsidiary of* Airbus Deutschland GmbH, Stade, Germany, http://www.ctc-gmbh.com.
Developing processes for "Out of Autoclave" rework on the Airbus A350-1000 Fuselage, made primarily of carbon fibre reinforced plastic.

2007 – 2008 **Intern at the department of Design/ Analysis and Project Management**, FACC AG, Ried im Innkreis, Austria, http://www.facc.at.
Helping in the design and analysis of composite components for the Boeing 787 Spoiler project.

Publications

2017 Karina Barquet, Sarah K. Dickin, **Meijer, Jan Jaap**, and Ali Dastgheib. Testing RISC-KIT's integrated approach for assessing Disaster Risk Reduction measures on the coast of Kristianstad, Sweden. *Coastal Engineering*, August 2017.

Conference presentations

2017 **Are standing meanders braking the Antarctic Circumpolar Current?**, *Quantitative Marine Science Symposium organised by* CSIRO, *the* Institute for Marine and Antarctic Studies *and the* University of Tasmania, Hobart. Australia, November 20, 2017.

2017 **Integrated approaches to coastal risk - case study: Kristianstad Municipality, Sweden.**, *RISC-KIT Final Conference organised by the RISC-KIT Consortium and hosted at* Deltares, Delft, the Netherlands, April 5-7, 2017.

2016 **From storm hazards at the coast, to impacts on the hinterland - RISC-KIT project**, *Climate Change Adaptation in the Coastal Zone conference organised by* Föreningen Vatten *(Swedish Association for Water) in cooperation with the* Lund University *and the* World Maritime University, Malmö, Sweden, April 5-6, 2016.

Awards and grants

2018 **Travel support**, Centre of Excellence for Climate Extremes, Australia, AUD$1,000.

2018 **Quantitative Marine Science postgraduate conference support**, CSIRO *and* University of Tasmania, Hobart, Australia, AUD$2,500.

2017 **Quantitative Marine Science Scholarship**, CSIRO *and* University of Tasmania, Hobart, Australia, top-up of AUD$5,000pa for three years with a possible six month extension.

2017 **Tasmania Graduate Research Scholarship**, University of Tasmania, Hobart, Australia, living allowance of AUD$26,682pa for three years with a possible six month extension.

Languages

Dutch	Native language	
English	Fluent	*speaking and writing*
German	Intermediate	*speaking and writing*

French	Basic knowledge	*speaking and writing*
Portuguese	Basic knowledge	*speaking*
Spanish	Basic knowledge	*speaking*

Skills/ Abilities

Communication

Reading	Proficient in reading technical manuals and scientific papers
Writing	Proficient in writing technical and scientific reports
Presenting	Confident in public speaking and work floor discussions

Leadership/ teamwork

2018 – Presemt **Student representative for the Earth Systems Science Compute User Group**, University of Tasmania, Hobart, Australia.

2018 – Present **Member of the Early Career Researcher committee**, Centre of Excellence for Climate Extremes, Australia, `https://climateextremes.org.au`.

Information technology

Operating systems	Windows, Mac OSX, Linux Mint
Programming languages	Python, Fortran, HTML
Productivity software	Microsof Office suite, LaTeX
Engineering design packages	CATIA, Patran/ Nastran, Matlab/ Simulink
Modelling software	XBeach, Delft3D, LISFLOOD
Geographic information system	QGIS

Other interests

- Surfing
- Sailing
- Motorcycling
- Restoring an English classic sports car
- Travelling (South America (6 months in 2014), Panama, Costa Rica, Brazil, Indonesia, Fuerteventura and Europe)

References

Available upon request