

Jan Jaap Meijer

Curriculum Vitae

+61 435 503 003
✉ janjaapmeijer@gmail.com
🌐 janjaapmeijer.github.io/atsea
in [janjaapmeijer](#)
🔗 [janjaapmeijer](#)
📄 [meijerjanjaap](#)



I am an enthusiastic and motivated observational oceanographer who is deeply connected to the ocean not only via my degree 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 able to work productively 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.

Education

- 2017 – Present **PhD candidate in Quantitative Marine Science**, UNIVERSITY OF TASMANIA, Hobart, Australia.
Thesis: An observational study of the role of standing meanders in slowing the Antarctic Circumpolar Current and transporting heat to Antarctica.
Supervisors: A/Prof. Dr. H.E. Phillips, Prof. Dr. N.L. Bindoff, Dr. S.R. Rintoul and Dr. A. Foppert
- 2014 **Master of Science in Meteorology, Physical Oceanography and Climate**, UTRECHT UNIVERSITY, the Netherlands.
Thesis: 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
- 2012 **Visiting student at the department of Physical Oceanography**, ROYAL NETHERLANDS INSTITUTE FOR SEA RESEARCH (NIOZ), Texel, the Netherlands.
- 2012 **Visiting student at the department of Coastal Engineering**, DELFT UNIVERSITY OF TECHNOLOGY, the Netherlands.
- 2011 **Bachelor of Engineering in Aeronautical Engineering**, INHOLLAND UNIVERSITY, Delft, the Netherlands.

Experience

Research experience

- 2021 – Present **Research Assistant**, INSTITUTE FOR MARINE AND ANTARCTIC STUDIES (IMAS), Hobart, Australia, <https://www.imas.utas.edu.au>.
Making MATLAB scripts for quality controlling EM-APEX floats available on GitHub, applying these to the float data of the IN1810v05 voyage and formatting in easy-accessible NetCDF format.

- 2019 **Guest investigator**, WOODS HOLE OCEANOGRAPHIC INSTITUTE (WHOI), Woods Hole, MA, USA, <https://www.whoi.edu>.
Research collaboration with Kurt Polzin (WHOI), Kathleen Donohue, Karen Tracey, Randolph Watts (University of Rhode Island) and supervisory team on "How does topography brake the Antarctic Circumpolar Current?"
- 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 risk to 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, Delft, the Netherlands, <http://www.deltares.nl>.
A research study addressing the formation of coral cays on platform reefs.

Sea-going experience

- 2018 **Principal student investigator**, RV INVESTIGATOR, Polar Front meander downstream of the South East Indian Ridge, 16 October – 16 November 2018.
Assisting in the planning of CTD locations along 11 transects, operating CTD casts/ sampling Niskin bottles and analysing the incoming data. Deploying EM-APEX floats and Langrangian surface drifters.
- 2015 **Investigator**, 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.

Summer/ winter schools

- 2020 **Virtual winter school in Atmosphere and Ocean Dynamics**, ARC CENTRE OF EXCELLENCE FOR CLIMATE EXTREMES, Australia.

- 2018 **Winter school in Climate Extremes and High Impact Weather**, AUSTRALIAN NATIONAL UNIVERSITY, Canberra, Australia.
- 2011 **Summer course in Multidisciplinary sea-going oceanography**, ROYAL NETHERLANDS INSTITUTE FOR SEA RESEARCH (NIOZ), Texel, the Netherlands.
- 2011 **Summer school in Physics of the Climate System**, UTRECHT UNIVERSITY, Utrecht, the Netherlands.

Publications

- 2021 (in review) **Jan Jaap Meijer**, Helen E. Phillips, Nathaniel L. Bindoff, Stephen R. Rintoul, and Annie Foppert. Dynamics of a standing meander of the subantarctic front diagnosed from satellite altimetry and along-stream anomalies of temperature and salinity. *Journal of Physical Oceanography*, 2021 (in review).
- 2022 (in prep.) **Jan Jaap Meijer**, Helen E. Phillips, Nathaniel L. Bindoff, Stephen R. Rintoul, and Annie Foppert. Dynamics of a subantarctic front standing meander in a high-resolution ocean model. *Journal of Physical Oceanography*, 2022 (in prep.).
- 2017 Karina Barquet, Sarah K. Dickin, **Jan Jaap Meijer**, 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

- 2022 (accepted) **Dynamics of a standing meander of the Subantarctic Front diagnosed from satellite altimetry and along-stream anomalies of temperature and salinity**, *International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO)*, Christchurch, New Zealand, February 8-12, 2022.
- 2019 **Sustainability in ocean observations**, *OceanObs*, Honolulu, HI, USA, September 16-20, 2019.
- 2019 **Three-dimensional structure of a standing meander in the Antarctic Circumpolar Current**, *EGU General Assembly*, Vienna, Austria, April 7-12, 2019.
- 2018 **Are standing meanders braking the Antarctic Circumpolar Current?**, *Annual Graduate Research Conference organised by the UNIVERSITY OF TASMANIA*, Hobart, Australia, September 07, 2018.
- 2017 **Integrated approaches to coastal risk - case study: Kristianstad Municipality, Sweden.**, *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.

Grants

- 2019 **Travel support for OceanObs'19**, CENTRE OF EXCELLENCE FOR CLIMATE EXTREMES, Australia, AUD\$3,000.

- 2018 **Travel support for research visit to WHOI/ University of Rhode Island**, ARC DISCOVERY GRANT (DP170102162-BINDOFF), Australia, AUD\$4,000.
- 2018 **Travel support for research visit to WHOI**, 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	<i>speaking and writing</i>
German	Intermediate	<i>speaking and writing</i>
French	Basic knowledge	<i>speaking and writing</i>
Portuguese	Basic knowledge	<i>speaking</i>
Spanish	Basic knowledge	<i>speaking</i>

Skills/ Abilities

Communication

- Reading Proficient in reading technical manuals and scientific papers
- Writing Proficient in writing technical manuals and scientific papers
- Presenting Confident in public speaking and work floor discussions
- Outreach STEM_next at Tarooma High School (2019), Roving Scientist on Beaker Street at the Tasmanian Museum and Art Gallery (2019), IN1810v05 Voyage blog post (2018)

Leadership/ teamwork

- 2019 – 2020 **Chair of the Early Career Researcher committee**, CENTRE OF EXCELLENCE FOR CLIMATE EXTREMES, Australia, <https://climateextremes.org.au>.
- 2018 – 2020 **Member of the Early Career Researcher committee**, CENTRE OF EXCELLENCE FOR CLIMATE EXTREMES, Australia, <https://climateextremes.org.au>.
- 2019 **Co-organiser of CSIRO-IMAS ECR-day**, CSIRO and IMAS, Hobart, Australia.
- 2018 **Student representative for the Earth Systems Science Compute User Group**, UNIVERSITY OF TASMANIA, Hobart, Australia.

Information technology

- Operating systems Linux (preferred), ability to work cross-platform
- Programming languages Python, shell scripting, Matlab, Fortran, HTML/CSS
- Productivity software LibreOffice, LaTeX, Microsoft Office suite

High-performance/ cloud computing	NCI High Performance Computing system, Deltares Cluster Computing System, SEI work station
Open-source tools and documentation	Conda, Git, Markdown, readthedocs.io
Engineering design packages	CATIA, Patran/ Nastran, Matlab/ Simulink
Modelling software	XBeach, Delft3D, LISFLOOD
Geographic information system	QGIS

Licences/ Certificates

Date of expiry:	International certificate for operators of pleasure craft	<i>Inland/ Coastal waters</i>
3 March 2056		
	Long Range Operators Certificate of Proficiency	
26 March 2020	Survival at Sea certificate	
3 March 2017	Seafarer medical certificate	<i>Worldwide</i>
30 January 2019	Car and motorcycle driving license	<i>category A and B</i>

References

Available upon request