Robin L. van Dijk

PhD Candidate - Marine Biogeochemistry

About me

I am a sea-going PhD candidate with an interest in open ocean systems. Through my background in marine biology and experiences on research voyages, I was infatuated by the interdisciplinary nature of ocean sciences and started seeking out interfaces to explain more complex systems. I am interested in how climate change, in the form of Antarctic glacier melt, impacts micronutrient availability for phytoplankton along the continental shelves.

Contact

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Languages

Dutch - Native Language

English - Professional Knowledge

Interests

Biogeochemistry | Plankton | Oceanography | Southern Ocean | Genomics | Climate Change | Ocean expeditions | Modelling

References

Upon request

EDUCATION

02/2025 - present

Higher Degree in Research — Hobart, Tasmania
University of Tasmania/Institute of Marine and Antarctic Studies
PhD Candidate
Cryospheric sources of tracel metals along the Antarctic margins.

09/2021 - 10/2024

Master Degree — Groningen, the Netherlands
University of Groningen
Marine Biology
Introductory courses in Biological Oceanography, Marine Biology, and Population Genetics. Compulsory courses in Practical Modelling and Polar Ecosystems.

First Research Project - Marine Evolution and Conservation,
GELIFES Groningen
Using population genomics to study population history of open-ocean Antarctic diatom *Fragilariopsis kerguelensis*.

Second Research Project - Plankton Diversity and Evolution,
Naturalis Biodiversity Center
Combining biogeochemistry and ecology approaches to study calcifying zooplankton distributions and export.

Research Assignment - COI Oceans,
University of Groningen & NIOZ
Investigating Fe-Mn-vitB12 (co-)limitation in Southern Ocean phytoplankton communities.

Colloquium - COI Oceans,
University of Groningen & NIOZ
The iron hypothesis revisited: evolving perspectives on Southern Ocean iron fertilisation.

09/2018 - 06/2021

Bachelor Degree — Leiden, the Netherlands
Leiden University
Biology
General background in Microbiology, Botany, and Cell Biology. Specialised in Molecular Biology, Evolution and Biodiversity.

RESEARCH SKILLS

Ship-based skills

Operating and sampling (trace-metal clean) CTD
On board water filtration for microbial communities, stable isotopes, and phytoplankton pigment analyses
On board phytoplankton incubation experiments
Radioisotope measurements of anaerobic methane oxidation rates
Operating ring- and multi plankton nets
Taxonomic expertise on calcifying zooplankton

Programming Languages

Python: *Advanced*
R: *Highly specialised*
BASH: *Advanced*
LaTeX: *Advanced*

Software

Ocean Data View: *Advanced*
ArcGIS: *Intermediate*

POSITIONS

08/2024 — **Lab technician** - ***Temporary contract*** — NIOZ, Texel, the Netherlands
Laboratory assistant to support on collecting and processing methane samples on the 64PE537 voyage.

11/2023 AND 11/2024 — **Student Assistant** - ***Student contract*** — University of Amsterdam, the Netherlands
Assisting the practicals within the MSc course Biological Oceanography

RESEARCH EXPEDITIONS

08/2024 — **64PE537 METHANE III** - ***RV Pelagia*** — North Sea
Laboratory assistant, revisiting sites to assess the effect of tides on methane leakage.

11/2023-02/2024 — **PS140 EASI-2** - ***RV Polarstern*** — Southern Ocean
Handling trace metal clean sampling of seawater from the Ultra Clean CTD and additional short- and long-term phytoplankton incubations.

10/2023-11/2023 — **64PE525 METHANE II** - ***RV Pelagia*** — North Sea
Quantify potential methane leakage from old drilling wells and natural seep sites, and the effect on marine microbial communities.

01/2023-03/2023 — **64PE513 BEYΩND** - ***RV Pelagia*** — Atlantic Ocean
Investigate calcium carbonate dissolution in shallow waters and the effect on planktonic calcifiers.

RESEARCH OUTPUT

Journal Article
in prep
Unravelling past population events in diatoms with genomic based demographic inferences, Robin L. van Dijk & Marcos Suárez Menéndez, Ute Postel, Martine Bérubé, Bank Beszteri & Per J. Palsbøll, *Molecular Ecology*

Journal Article
in prep
Exploring the potential of COI gene marker for planktonic foraminifera diversity studies, Ana Carolina Bercini Gusmao, Robin L. van Dijk, Elsa Girard, Katja T.C.A. Peijnenburg, Jan Macher, Michal Kuchera, Raphaël Morard, *Journal of Eukaryotic Microbiology*

Poster
NL Polar Day 2024
Mapping iron limitation in the Southern Ocean, Robin L. van Dijk, Jasmin Stimpfle, Marrit Jacob, Florine Kooij, Rob Middag, Willem van de Poll

Poster
Zooplankton Production Symposium 2024 & NWOlife 2024
Crisis at depth: vertical distribution of calcifying plankton along a shallowing aragonite saturation horizon, Robin L. van Dijk, A. Daniëlle van der Burg, Giada Spagliardi, Geert-Jan Brummer, Anne Kruijt, Ben Cala, Olivier Sulpis, Matthew P. Humphreys, and Katja T.C.A Peijnenburg

Talk
Zooplankton Production Symposium 2024
Unravelling past population events in Southern Ocean diatoms with genomic based demographic inferences, Robin L. van Dijk and Marcos Suárez Menéndez, Ute Postel, Martine Bérubé, Bánk Beszteri and Per J. Palsbøll

Poster
Ocean Sciences 2024
Simulated settling, dissolution and degradation of pteropods in an on-board, pressurized reactor, Olivier Sulpis, Anne Kruijt, Robin L. van Dijk, Katja T.C.A Peijnenburg, Matthew Humphreys

Poster
EGU 2024
Post-mortem pteropod degradation in the Southern Atlantic twilight zone, Olivier Sulpis, Perrine Chaurand; Anne Kruijt; Ben Cala; Katja TCA Peijnenburg; Robin L. van Dijk; Daniëlle van der Burg; Matthew P. Humphreys

GRANTS AND PRIZES

Best Poster Award — **2024** - Zooplankton Production Symposium
Prize amount: CAN$ 300

Groninger Universty Fund — **2024** - Conference attendance and research assignment
Grant amount: €250 + €1136

Christine Buisman Fund — **2023** - Second MSc Research Project
Grant amount: €300

RUG FSE Mobility Scholarship — **2023** - Second MSc Research Project
Grant amount: €470