

Herdís Steinsdóttir

PhD in Biology



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SKILLS

Technical

R • Python • Bash • Emacs • Latex • Git •
Environmental & Genomic databases
(e.g., WOA, NCBI) • Inkscape • HTML • CSS

Earth & Life Science

Biogeochemical analysis • Data wrangling •
Bioinformatics • Basic modeling •
Aquatic field & laboratory work

Communication

Academic writing • Science communication •
Debate experience • Public speaking

CERTIFICATES

AAUS scientific diver

November 2022 - July 2023 // Israel

Powerboat license ≤ 150 hp

May 2023 // Israel

Climate-KIC Entrepreneurial Degree

September 2016 - June 2018 // Denmark

GRANTS

Carlsberg International. Fellowship

2023 // 100,000 USD

IUI-Postdoctoral Fellowship

2022 // 30,000 USD

SUMMARY

PhD with research experience in bioinformatics, biogeochemistry, microbiology, aquatic field and lab work. Scientific diver. Proficient in R, Python & Bash for data analysis with passion for data visualization. Strong communication skills with over three years of teaching experience.

EMPLOYMENT HISTORY

2022-now Interuniversity Institute for Marine Sciences in Eilat

Postdoctoral Research // Marine microbiology
and phytoplankton ecology.

2022 BioPol Biotechnology Center

Freelance // Fisheries science field work.

2021 University of Southern Denmark

Research Assistant // Aquatic biogeochemistry
and molecular biology.

EDUCATION

2018-2021 PhD Microbiology and Biogeo- chemistry

University of Southern Denmark

Studied rates, pathways and controls of
anaerobic methane oxidation in coastal waters.
Applied tracer incubations, gene amplicon
sequencing and metagenomics.

Advisors **Bo Thamdrup** & **Laura Bristow**

2016-2018 MSE Aquatic Science & Technology

Technical University of Denmark

Chemical Oceanography and Modeling.
Modeled transport of organic matter through the
Fram Strait and investigated effects of heatwaves
on nitrous oxide emissions from shallow mudflats
in southern Spain.

Advisors **Colin Stedmon** & **Emilio Garcia-Robledo**

2013-2016 BS Biology

University of Southern Denmark

PUBLICATIONS

2026 Microbial dynamics in coral reef waters: diel cycles in contrasting seasons

Herdís GR Steinsdóttir, D Akkaynak, MJ Frada.
Science Advances, 12(1):eady9354, 2026

2022 Aerobic and anaerobic methane oxidation in a seasonally anoxic basin

Herdís GR Steinsdóttir, C Schauburger, S Mhatre, B Thamdrup,
L Bristow.
Limnology & Oceanography, 67(6):1257-1273, 2022

INVITED SPEAKER

Aquatic Sciences Meeting, ASLO

2023 // Invited speaker, session SS036

Title: *Methylococcales ecotypes in a coastal oxygen minimum zone*

ACADEMIC SERVICE

Journal reviewer

Environmental Microbiology, Scientific Reports,
Limnology & Oceanography

SELECTED COURSES

The International Geobiology Course

June-July 2019 // Caltech

Climate-KIC Entrepreneurial Journey

July-August 2017 // Climate-KIC

FIELD WORK

Gulf of Aqaba - Israel

2023-2024 // Microbiology & Biogeochemistry
around coral reefs

Húnafljörður - Iceland

Spring 2022 // Analysis of bycatch in Lumpfish
gillnets

Golfo Dulce - Costa Rica

Winter 2019 & 2020 // Biogeochemistry
& Molecular analysis

Mariager Fjord - Denmark

2019 // Biogeochemistry & Molecular analysis

Rio Guadalete - Spain

Spring 2018 // Biogeochemistry

Fram Strait - Svalbard / Greenland

Fall 2017 // Optical Analysis & Modelling

Oxygen minimum zone - Mexico

Spring 2017 // Radioisotope Incubations

LANGUAGES

Fluent: English, Icelandic, Danish

OTHER INTERESTS

Brazilian jiu-jitsu • Diving • Woodwork

2022 Anaerobic methane oxidation in a coastal oxygen minimum zone: spatial and temporal dynamics

Herdís GR Steinsdóttir, E Ramírez, S Mhatre, C Schaubberger, A Bertagnolli, Z Pratte, F Stewart, B Thamdrup, L Bristow.
Environmental Microbiology, 24(5):2361-2379, 2022

2019 Anaerobic methane oxidation is an important sink for methane in Ocean's largest oxygen minimum zone

Bo Thamdrup, **Herdís GR Steinsdóttir**, A Bertagnolli, C Padilla, N Patin, E Garcia-Robledo, L Bristow, F Stewart.
Limnology & Oceanography, 64(6):2569-2585, 2019

VOLUNTEERING

2024-now Icelandic Eider Farmer Assoc.

Board member // An organization that supports research and education on the Common eider. Assists and guides eiderdown producers, a historic tradition in Iceland. Wrote fund applications and helped with software/web infrastructure.

2019-2022 Toastmasters International

Board member // Odense Toastmasters. Non-profit organization teaching public speaking and leadership skills. Contributed to starting the club, organised and participated in public debate and speech competitions.

2021 Odense Science Lab

Educator // Non-profit outreach program introducing primary- and high school students to STEM research. Visited schools, gave talks and science shows.

2018-2021 University of Southern Denmark

Well-being representative for PhD students // Organized a workshop in Improv Comedy and organized and lead two workshops in Science Communication.

TEACHING & MENTORING

2020-2021 Mentoring of new PhD Students

University of Southern Denmark

2019-2021 TA // Plants, Protists, and Fungi

University of Southern Denmark

2019-2020 Project advisor // Fieldwork in marine and terrestrial biology

University of Southern Denmark

2019 Bachelor thesis co-advisor // Thesis title: Effect of oxygen on methane oxidation rates in two freshwater ponds

University of Southern Denmark

2018 TA // Pharmaceutical Toxicology

University of Southern Denmark