

Herdís Steinsdóttir

PhD in Biology



www.herdis.org • 0045 42477770

herdisgs@gmail.com



Eilat, Israel

SKILLS

Technical

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

Earth & Life Science

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

Communication

Academic writing • Science communication •
Debate experience • Public speaking •
Improv comedy

CERTIFICATES

AAUS-certified scientific divemaster

November 2022-July 2023 // IUI

Powerboat license ≤150hp

May 2023 // Israel

Climate-KIC Entrepreneurial Degree

September 2016-June 2018 // DTU

GRANTS

Carlsberg Internationalisation Fellow

2022 // 100,000 USD

IUI-Postdoctoral Fellowship

2022 // 30,000 USD

SUMMARY

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

EMPLOYMENT HISTORY

2021-now Hraunaskaga ehf.

Co-Founder // Production and sales of ethical & eco-friendly eiderdown duvets [homepage].

2022-now Interuniversity Institute for Marine Sciences in Eilat

Postdoctoral Researcher // Aquatic biogeochemistry and molecular biology

2022 BioPol Biotechnology Center

Freelance Researcher // Fisheries science

2021 University of Southern Denmark

Research Assistant // Aquatic biogeochemistry and molecular biology

2017-2018 Technical University of Denmark

Student Assistant // Science outreach

EDUCATION

2018-2021 PhD Microbiology and Biogeochemistry

University of Southern Denmark

Investigated rates, pathways, and controls of anaerobic methane oxidation in oxygen-depleted coastal waters. Primarily used 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 Modelling. Modelled 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

INVITED TALKS

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

SELECTED COURSES

The International Geobiology Course

June-July 2019 // Caltech

Climate-KIC Entrepreneurial Journey

July-August 2017 // Climate-KIC

FIELD WORK

Húnafljörður - Iceland

Spring 2022 // Analysis of bycatch in Lumpfish gillnets

Golfo Dulce - Costa Rica

January-February 2019 & 2020 // Biogeochemistry & Molecular analysis

Mariager Fjord - Denmark

2019 // Biogeochemistry & Molecular analysis

Rio Guadalete - Spain

Spring 2018 // Biogeochemistry

Fram Strait - Svalbard/Greenland

September 2017 // Optical Analysis & Modelling

Oxygen minimum zone - Mexico

April-May 2017 // Radioisotope Incubations

LANGUAGES

Fluent: English, Icelandic, Danish

Beginner: Spanish, Hebrew

OTHER INTERESTS

Nordic literature • Brazilian jiu-jitsu •
Diving • Woodwork

VOLUNTEERING

2019-2022 Toastmasters International

Board member // Odense Toastmasters.

Non-profit organisation 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 //

Organised a workshop in Improv Comedy and organised 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

ACADEMIC PUBLICATIONS

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, and L Bristow.
Environmental Microbiology, 24(5):2361-2379, 2022

2022 Aerobic and anaerobic methane oxidation in a seasonally anoxic basin

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