



Gabriella Malmqvist CV

Born 19961208 Sweden

✉ gabriella.malmqvist@gu.se

☎ +46704882504

Tjärnö Marine Laboratory

Laboratorievägen 10

452 96, Strömstad

About me

Ambitious, curious, and resourceful

PhD student with a background in genetics and aquatic management.

Interest in molecular processes leading to adaptation and a burning passion for outreach and teaching.

- Master-degree in Biology and Marine science
- Experience with genetic data processing
- Experience with population genetic analysis
- Lab experience of DNA-extractions and 2B-RAD-library preparation
- Lab experience of RNA-extractions
- Experience of long work in stereo microscope
- Experience in data processing and report writing from university education and employment at County Administrative Boards
- Extensive field work experience in aquatic environments (boat and wading)
- Experience of sampling with ROV
- Experience of equipment such as ADCP, CTD, plankton net, push net, and box corer
- Experience of outreach and work towards the public
- Experience with basic statistics
- Experience with Survey123 and ARCGIS Field maps
- Swedish, Native language
- English, Fluent

Work experience 2019 – Present

2023-09 – Present Gothenburg university, Department of Marine Sciences

PhD student in natural science specialising in biology

Supervisor: Erica Leder, Professor, Gothenburg university

Cosupervisor: Sean Stankowski, Lecturer, University of Sussex

Examiner: Kerstin Johannesson, Professor, Gothenburg university

Subject: Comparative evolution in *Littorina species*, molecular processes.

2023-06 – 2023-09 The County Administrative Board of Dalarna

Habitat mapping (ArcGIS Field maps) in Fulan. Freshwater pearl mussel *Margaritifera margaritifera* monitoring (Survey123 and ArcGIS Field maps). Standardised electrofishing in rivers in Dalarnas county (Team leader). Standardised test fishing with gillnets. Computerize and summarise Freshwater pearl mussel monitoring and test fishing using gillnets.

2022-06 – 2022-08 The County Administrative Board of Dalarna

Habitat mapping survey of rivers in preparation for restoration efforts (Collector). Participation in river restoration (manual and machine) in Älvdalen. Standardised electrofishing in rivers in Dalarnas county. Involved electrofishing on Fulufjället, deployed by helicopter.

2022-01 – 2022-03 The County Administrative Board of Jönköping

Evaluation of monitoring survey of Vätterns shallow water habitats using manual drag nets with focus on the species spined loach *Cobitis taenia* 2021, and presented results on an internal training event. Evaluation of standardised test fishing of limed lakes using gillnets 2020. Compiling restoration efforts of rivers and lakes between 1970-2010 in preparation of revision of the database ÅIV (Åtgärder i vatten).

2021 SU, FA The County Administrative Board of Jönköping

SU: Standardised test fishing using gillnets with otolith sampling (limed lakes). Freshwater pearl mussel *Margaritifera margaritifera* monitoring with aquascope. Evaluation of monitoring survey of river lamprey *Lampetra fluviatilis* 2020. Survey of trolling fishing and the effects of lures with vs without barbs in Vättern. Monitoring survey of Vätterns shallow water habitats using manual drag nets with focus on the species spined loach *Cobitis taenia*. FA: work with ÅIV (described above) and digitisation of data from survey with manual drag nets.

2020 SU, FA, 2021 SP The County Administrative Board of Jönköping

SU: Standardised test fishing using gillnets with otolith sampling (limed lakes and biodiversity monitoring in Vättern). Monitoring survey of Freshwater pearl mussel *Margaritifera margaritifera* by aquascope and snorkeling. Work with ÅIV (described above). FA: Work with ÅIV (described above). SP: Work with ÅIV (described above).

2019 SU Tjärnö Marine Laboratory, Marine biologist

Outreach to the public. Aquarium: species knowledge, presentations, answering questions, cash registry, plan activities, etc.

Children's summer-lab: plan and arrange activities in lab/field to inspire children to explore the sea.

Boards and Committees 2020-Present

2023-12 – Present Department of Marine Sciences Committee for Third Cycle Education *PhD representative*

Committee with aim to develop/monitor strategies for the faculty's third cycle education for the Department of Marine sciences at the University of Gothenburg.

2021-09 – 2023-06 Academic Appointments Board *Student representative*

Represented the students perspective in the process of recruitment and promotion regarding employments with a teaching role for the Faculty of Science at the University of Gothenburg.

2020-09 – 2021-06 The Faculty Board *Student representative*

Represented the students at the Faculty of Science at the University of Gothenburg perspective.

Teaching 2023-Present

2023-11 BIO217, Evolutionary biology

Role: Course assistant

Work: Helping out during computer labs about evolutionary biology

2024-01 – 2024-03 MAV105, Cellbiology, genomics, thermodynamics, and marine organisms physiology and adaptation

Role: Course assistant

Work: Teaching DNA extractions, protein extractions, computer labs about sequencing, and was responsible for the an osmosis lab, guiding students through making posters, and listening to their poster sessions together with two other PhD colleges.

2024-04 MAV106, Basic evolutionary and ecological principles

Role: Course assistant

Work: Responsible for the students field week at Tjärnö Marine Laboratory together with a PhD college.

Teaching species identification, sampling strategies, and how to make presentations.

2024-04 – 2024-05 BIO451, Experimental marine ecology

Role: Course assistant

Work: Supervised a group of students during a one month project.

Outreach activities 2023-Present

2024-04 – Present Information operation at Tjärnö Marine Laboratory

Guiding groups from the coming to Tjärnö Marine Laboratory. Guiding involves holding presentations about the station and the projects conducted there, showing the station, guiding beach excursions, boat excursions and talk about biodiversity, holding lectures about the scientific method and planning experiments for the the group to complete. Groups assemblies varies but mainly consists of high school students, however research groups, the national organization of pensioners, middle school students, fishermen, etc also constitutes the groups coming to the stations.

2024-04 The Science festival, Gothenburg

Had a booth where I showed the evolution/adaptation of marine snails.

2023-11 Mission Arena Banos on Universeum

Had a booth where I showed deep sea corals and the evolution/adaptation of marine snails.

Conferences

2023-10 CeMEB

Parttook in the fall 2023 assembly



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Programs etc

MATLAB	Intermediate
Microsoft office	Intermediate
R	Intermediate
LaTeX	Novice
Python	Novice
ArcGIS	Novice
QGIS	Novice
UNIX	Novice

Certificates etc

Drivers licence AM/B 2015

Electrofishing certificate 2022

CPR 2015, 2014, 2013

Youth Leader SISU 2012

Education

2021-09 – 2023-06 Master of Science Degree *University of Gothenburg*

M.Sc. Marine science and M.Sc. Biology

Title: *WHERE DID YOU COME FROM; WHERE DID YOU GO?*

Intrareef genetic diversity of Lophleia pertusa in Skagerrak using 2B-RAD sequencing. 45 credits. Passed with distinction (VG)

Supervisor: Docent Ricardo Pereyra, Department of Marine sciences

2017-09 – 2020-06 Bachelor of Science Degree *University of Gothenburg*

B.Sc. Marine science and B.Sc. Biology

Title: *BIOMASS IN SEDIMENT DWELLING MACRO FAUNA: Effects of change in preservation method, from formalin to ethanol.*

15 credits. Passed with distinction (VG)

Supervisor: Prof. Mats Lindegarth, Department of Marine sciences

Reports and interviews

The County Administrative Board

Malmqvist, G. Rydberg, D. (2021). Flodnejonöga 2020 - Inventering i sju tillflöden till Vättern. Vätternvårdsförbundet rapport nr 144.

Länsstyrelsen Jönköpings län. https://vattern.org/wp-content/uploads/Rapport144_Flodnejonoga2020_TGA.pdf

Malmqvist, G., Halldén, F., Johansson, A., Wennerberg, M, Spjut, D. och Johansson, K.-M. (2024). Inventering av nissöga (Cobitis taenia) i Vättern 2021. Notinventering av Vätterns stradzon.

Vätternvårdsförbundet rapport 160. Länsstyrelsen Jönköpings län.

https://vattern.org/wp-content/uploads/Rapport160_Inventering-Nissoga-Vattern2021.pdf

Newspaper

Schänger, K. (2023) Dött korallrev får liv igen. Svensk Fisknäring. Year 7. Nr1 2023 p.21. Interview of Malmqvist, G, regarding master thesis.

https://issuu.com/billes/docs/svensk_fisknaring_nr1_2023

Volunteer work

2019-09 ICES Annual Science conference

Helping with different tasks such as timekeeping and microphone handout during sessions. Partook in the conference during time off.

PhD courses

2024-09 Proteomics

Course leader: Annika Thorsell, Gothenburg university

2024-06 Experimental Design and Data Analysis for Marine Sciences

Course leader: Jonathan Havenhand, Gothenburg university

Gerry Quinn, Honorary Professor, Deakin University

2024-02 Finish on time, the doctoral student handbook

Course leader: Angels Wulff, Professor, Gothenburg university

2023-11 Landscape and seascape genomics

Course leader: Cynthia Riginos, Professor, The university of Queensland