



## Curriculum Vitae

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## Education

08.09 - 11.14	<p><b>Master of science; Biology</b> <i>Field of study: Ecology and Evolution</i> <i>Master thesis:</i> “Phenotypic plasticity in lateral bony plate number of the threespine stickleback (<i>Gasterosteus aculeatus</i>)”. The degree combines field and laboratory work with statistical analysis of the resulting data in R.</p> <p>Courses included in the degree;</p> <ul style="list-style-type: none"> <li>- Limnology 1, Limnology 2, Fish ecology, Life history strategies &amp; climatic effects, Applied statistics, and Animal research training, in addition to courses within laboratory and field safety protocols.</li> </ul> <p><i>Key qualifications:</i> <u>Limnology:</u></p> <ul style="list-style-type: none"> <li>- Limnology-field techniques; Plankton sampling, Secchi-depth measurement, water sampling of various layers of water masses using a van dorn water sampler.</li> <li>- Preparation and analysis/measurement of various limnologically relevant parameters; Colour, Dissolved Organic Carbon, chlorophyll a, Dissolved Oxygen (both with sensor and colorimetric method), Algae fixation, Nutrient contents.</li> <li>- Evaluation of catchment area and its effect on lake and river water quality.</li> <li>- Using key species to evaluate the health and state of ecosystems.</li> </ul> <p><u>Master thesis:</u></p> <ul style="list-style-type: none"> <li>- DNA analysis, (PCR), fish catching techniques, In Vitro Fertilizing (IVF) of fish, Alizarin red colouring for Calcium (colouring cartilage and bone tissue), Program for morphometric analysis of pictures (tpsUtil and tpsDig2), statistical analysis in R (general linear mixed model – glmm , non-linear mixed effects – nlme (with the CRAN-packages nlme and lme4), linear models – lm, Aikake Information Criterion testing – AIC).</li> </ul>	University of Oslo
08.09 - 11.12	<p><b>Bachelor of science , Bachelor program of biology</b> Included courses within several basic biological and other STEM fields such as biological diversity, ecology, genetics, microbiology, molecular biology, evolution, statistics, mathematics and chemistry.</p> <p><i>Key qualifications;</i></p> <ul style="list-style-type: none"> <li>- Taxonomy within several animal and plant – groups (use of species identification keys for identification of most animal and plant taxa down to family and species level)</li> <li>- Various field techniques for analysis of biodiversity within ecosystems both terrestrial, marine and limnologic.</li> <li>- Laboratory techniques within DNA analysis (Next Generation Sequencing (NGS), Fixation of algae and bacteria, in addition to several techniques for analyzing water quality.</li> </ul>	University of Oslo (UiO)
08.04 - 06.07	<p><b>High school</b> Specialization; biology and Physics.</p>	Stabekk High school

## Relevant experience

03.16 – current employment	<p><b>Scientific assistant in genetic epidemiology</b>  Main responsibilities included preparing and conduction molecular genetic heritability analysis of large population samples.  Write and assist with writing of scientific papers/articles. Construct and select relevant phenotype variables for association with genetic similarity.  Assist in the creation and development of health registries. Write and administrate applications for research funding. Plan and order work related excursions. Establish project information websites.</p> <p><i>Key qualifications:</i></p> <ul style="list-style-type: none"> <li>- GCTA – Command line program for Genome-wide Complex Trait analysis (narrow sense heritability analysis)</li> <li>- Haploview – For quality control of molecular genetic data</li> <li>- PLINK – Program for Genome Wide Association Study (GWAS)</li> <li>- Linux – Operative system</li> <li>- Administration of research in relation to various regulations related to ethics and privacy.</li> <li>- Preparation of large data sets.</li> </ul>	University of Oslo (UiO), medical faculty
07.15 - 09.15	<p><b>Field assistant, Limnology</b>  Conduction of both field work and laboratory work, focusing on collection, preparation and analysis of water and algae samples. Working as a field assistant for the Norwegian Institute of Water Research (NIVA) at the international MARS-project (Managing Aquatic ecosystems and water Resources under multiple Stresses), a cooperative project between several EU and EUS nations. The position in question was stationed at the Leibniz-Institut für Gewässerökologie und Binnenfischerei (IGB) in Germany.</p> <p><i>Key qualifications/tasks:</i></p> <ul style="list-style-type: none"> <li>- Sampling of upper and lower layers of lake and mesocosms using a Hydro-Bios Integrating Water Sampler IWS III</li> <li>- Plancton sampling</li> <li>- Sampling and preparation of water samples for analysis of chlorophyll a, phytoplankton, zooplankton, and various parameters of water chemistry.</li> <li>- DNA-filtration, Cyano-toxin-filtration, algae fixation, Bacteria/HNF-fixation</li> <li>- Collection, drying and weighing of benthic algae samples.</li> <li>- Measuring, dissolving and addition of nutritions and humin feed at different concentrations</li> <li>- Connection of pumps, tubes and overall preparations for artificial mixing of epi and hypo-limnion in mesocosms, in addition to maintenance of mesocosms</li> <li>- Labelling of water and algae samples</li> </ul>	Norwegian Institute for Water research (NIVA)
02.15 - 06.15	<p><b>Temporary position as consultant for molecular biology and biochemistry students</b>  Provide students with information about courses and degrees as well as aiding institute employees with administrative tasks related to education.</p>	University of Oslo
09.13 - 10.13	<p><b>Assistant instructor in laboratory techniques and study groups for biology students of BIO1000</b>  Assist students in basic laboratory techniques, as well as answering questions, and review submitted student assignments.</p>	University of Oslo
08.09 - 11.12	<p><b>Organization secretary</b>  Assisting in coordination and planning of various activities as well as conveying wishes and views to the institute management.</p>	Student committee of the University of Oslo biological institute

## Additional experience

01.08 - 01.15	<b>Assistant caretaker</b> Part time position at care center for the elderly with responsibility for caring for and assisting patients.	Stabekktunet bo og behandlingssenter (Stabekktunet living and care center)
01.07 - 08.07	<b>Infantry soldier and NCO student</b> Accepted for NCO training at the Norwegian army NCO-School. Finished prematurely by personal choice. Completed remaining military service as a private anti-tank infantry soldier.	2 Battalion
01.04 - 01.07	<b>Part time- and summer jobs</b> Demolition, Moving, Renovating	Sono AS
01.09 - 07.09	<b>Travels in Asia and England</b>	
07.07 - 07.08	<b>Infantry Soldier and NCO Student at the Norwegian NCO school</b>	Norwegian Armed Forces, 2 <sup>nd</sup> Battalion

## Languages

**English:** Fluent, both oral and written

**French:** Basic, Oral

## Certificates

- Driver's license
- PADI Open Water Divers license

## Computer knowledge

Generally strong computer skills. Extensive experience with most common programs of the Office-package, such as Word, Excel, PowerPoint

- Extensive knowledge and understanding of the statistical program "R"
- Python – Programming language – Basic
- html – Programming language – Basic
- Arduino – Programming language – Basic

## Knowledge and experience of relevance

- First aid courses from the University of Oslo
- Advanced first aid course taught by the Norwegian army NCO-School
- Course in genetic epidemiology from NORBIS (national research school in bioinformatics, biostatistics and systems biology) at the University in Bergen (UiB)

## Interests

Martial arts (MMA, Muay Thai, Karate, Krav Maga, Greek-Roman wrestling)

Traveling

Acrobatics (Parkour)

Scuba diving (PADI open water diver –diving license)

Computers

Climbing

Hiking

Cross-country skiing

## References

- Professor Asbjørn Vøllestad, UiO, Biological institute, Phone: (+47)99103624, Email; [asbjorn.vollestad@ibv.uio.no](mailto:asbjorn.vollestad@ibv.uio.no)
- Anne Lyche Solheim, Senior Scientist – NIVA (Norwegian Institute for Water research), Phone; (+47)98215390, Email; [anne.lyche.solheim@niva.no](mailto:anne.lyche.solheim@niva.no)
- Stella Berger, Research Group Leader – IGB, Leibniz-Institut für Gewässerökologie und binnenfischerei, Phone; +49 (0) 33082-699-41, Phone; +49 (0) 151 40092826, Email; [berger@igb-berlin.de](mailto:berger@igb-berlin.de)
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