

CURRICULUM VITAE

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Profession: Environment and nature technician

Qualifications: Marine benthic invertebrates
Participation in the intercalibration, soft bottom fauna, mesozooplankton and lake vegetation
Detection and quantification of zooplankton
Determination of fish eggs and larvae
Field work and sampling
Data processing, DMP (STOQ and WinRambi), PlanktonSys
Participation in intercalibration tests, lake vegetation, soft bottom fauna and mesozooplankton
Safety Course, survival and first aid at sea

Language: Fluent in English writing, talking and reading, in addition German

Education:

<i>Period</i>	<i>Institution</i>	<i>Degree(s) or Diploma(s) obtained</i>
2006-2008	Dansk Center for Jordbrugsuddannelse	Jordbrugsteknolog, Miljø og natur.

Courses:

<i>Period</i>	<i>Course description</i>
2017	Participation in intercalibration sediment sampling. Held by Institute of Bioscience, Aarhus University (DCE)
June 2014	Participation in intercalibration "Fiskeundersøgelser 2014" ("Fish Survey 2014"). Held by DCE National Center for Environment and Energy, Aarhus University.
March 2014	Participation in intercalibration of soft bottom fauna 2013. Held by DCE National Center for Environment and Energy, Aarhus University. Fishlab.
June 2013	Participation in intercalibration meeting. Vegetation i Søer 2013 (Vegetation in Lakes 2013). Held by DCE National Center for Environment and Energy, Aarhus University.
Autumn 2012	Participation in HELCOM intercalibration of mesozooplankton 2012. Responsible: Prof. Elena Gorokhova, Department of Applied Environmental Science & Department of Systems Ecology, Stockholm University.
2012	Transport of live fish, Ministry for Food, Agriculture and Fisheries. Food Administration.
2011	Safety at sea, STCW - Standards of Training Certification and Watchkeeping for seafarers) Switzer Safty service A / S, Esbjerg

Professional experience:

<i>Year</i>	<i>Company</i>	<i>Position</i>	<i>Description</i>
2011 - present	Fishlab	Environment and nature technician	Work-up and determining marine benthic invertebrates. Zooplankton determination and quantification. Determination of fish eggs and larvae. Aquaculture, extensive production. General field work.

			Data processing (entry, creation of new species and quality of data in the div. Databases - DMP (STOQ and WinRambi) and PlanktonSys. Sediment Studies.
2009-2011	Orbicon A/S	Environment and nature technician	Determination of fish larvae and fish eggs. Gonad studies of fish. Fieldwork. Training in fresh zooplankton. Sorting DSFI samples. Sorting marine benthic fauna. Entering and quality assurance of data.
2008-2008	Danmarks Miljøundersøgelser	Laboratory technician / Environment and nature technician	Laboratory work consisting of microscopy. Fieldwork. Data entry.

Selected professional references:

2015-2017	EU tender: Task for the national surveillance program for the aquatic environment and nature, delaftale 30, " Oparbejdning af marin mesozooplankton 2016 ". Participation in work-up, as well as the density and biomass determination of marine mesozooplankton from 7 areas: Hirtshals, Løgstør Bredning, Aalborg Bugt, Aarhus Bugt, Øresund og Østersøen, Arkona. Data entry in STOQ. For Naturstyrelsen Aalborg, Naturstyrelsen Kronjylland, Naturstyrelsen Nordsjælland og Naturstyrelsen Nykøbing. Fishlab.
2014-2015	EU tender: "Udførelse af opgaver under Miljøministeriets nationale overvågningsprogram for vandmiljøet og naturen samt § 3-kortlægning". Task for the national surveillance program for the aquatic environment and nature, delaftale 25, " Marin blødbundsfauna ". Sorting, biomass determination and participation in data entry in WinRambi. Have worked with samples 29-42 of marine benthic invertebrates from all stations at Nordsøen and 11 marine stations for Naturstyrelsen Fyn and Naturstyrelsen Nykøbing F. In collaboration with RUF Dykkerservice. Fishlab. Task for the national surveillance program for the aquatic environment and nature, delaftale 15, " Oparbejdning af marin mesozooplankton 2014 ". Participation in work-up, as well as the density and biomass determination of marine mesozooplankton samples from Ringkjøbing Fjord, Løgstør Bredning, Aalborg Bugt, og Aarhus Bugt. Data entry in STOQ. For NST Nordsjælland og NST Kronjylland. Fishlab.
2014	EU tender: "Udførelse af opgaver under Miljøministeriets nationale overvågningsprogram for vandmiljøet og naturen samt § 3-kortlægning". Task for the national surveillance program for the aquatic environment and nature, delaftale 25, " Marin blødbundsfauna ". Sorting and biomass determination of marine benthic invertebrates from 2 marine stations for Naturstyrelsen Nordsjælland. In collaboration with RUF Dykkerservice. Fishlab.
2013	Task for the national surveillance program for the aquatic environment and nature, delaftale 25, " Marin blødbundsfauna ". Sorting and determination of marine benthic invertebrates from 7 marine stations for Naturstyrelsen Ålborg and Naturstyrelsen Kronjylland. Data entry in WinRambi. In collaboration with RUF Dykkerservice. Fishlab
2012-2016	Fishguard , Development of software for monitoring of fish in aquaculture. Test different camera equipment and software, and experiment planning and execution. GDDP. Fishlab. Task for the national surveillance program for the aquatic environment and nature, delaftale 15, " Oparbejdning af marin mesozooplankton " 2012 and 2013. Participation in work-up, as well as the density and biomass determination of marine mesozooplankton samples from Roskilde Fjord and Øresund. Data entry in STOQ. For NST Roskilde/Nykøbing. Fishlab.
2012	Field work and data entry in Fiskebasen (Fish data base) in connection to fish survey in Furesø and for NST Roskilde. Fishlab..

2012-2014	Task for the national surveillance program for the aquatic environment and nature, delaftale 15, "Oparbejdning af marin mesozooplankton" 2012 and 2013. Participation in work-up, as well as the density and biomass determination of marine mesozooplankton samples from Roskilde Fjord and Øresund. Data entry in STOQ. For NST Roskilde/Nykøbing. Fishlab.
2012	Field work related to the procurement of sediment samples Zealand and West Jutland lakes NST Storstrøm and NST West Jutland. Fishlab.
2012-present	HABFISH , Harmful algae and Fish kills. Financed by Danish Council for Strategic Research. Coordinated by Copenhagen University.
2011-present	Field work and laboratory work associated with the breeding of marine fish fry for Venøsund Fisk og Skaldyr Aps. Fishlab
2011-present	IMPAQ (Improvement of Aquaculture High Quality Fish Fry Production) Field work and laboratory work associated with the copepode project IMPAQ. Removing the plankton and fish, photo documentation, chemical measurements of water, use of various electronic measuring equipment (electrodes and data loggers). Determination of mesozooplankton. Danish Strategic Research Council. Fishlab
2011-2016	LI. Torup Gaslager , Baseline and VVM. Field work in Lovens Bredning and Hjarbaek Fjord, sampling of zooplankton, sediment sampling and collection of mussels, CTD monitoring, laboratory work and determination of zooplankton. Entering and establishment of new species in STOQ. Rambøll / Energinet. Fishlab.
2011-2015	DAFINET - Danish Fish Immunology Research Center and Network. Field and laboratory work in connection with various experiments and collecting data. DSF. Fishlab.
2011	Sorting and determination of marine benthic invertebrates from Ebeltoft Vig, Horsens Fjord, Hvering Bugt and Nordlige Lillebælt. Data entry in WinRambi, Denmark's Environment Portal. Naturstyrelsen Århus. Fishlab
2011	Participation in sorting of DVFI samples for Naturstyrelsen. Taught by Viggo Mahler and Simon B. Leonhard, Orbicon.
2011	Biological effect monitoring of eelpout. Analysis of eelpout and fry in accordance with the Technical information ch. 6.3 Biologisk effektmonitoring – Fisk (12.12.05). Naturstyrelsen Århus. Orbicon.
2010	Food items for birds (black ducks). Collection of benthic invertebrates samples at Horns reef, in connection with food for black ducks. Collection of samples with the benthic fauna haps, and sorting / determination. Dong energy.
2009-2010	FEBEC . Determination of fish larvae and fish eggs. Gonad research, labeling of eel, and various fieldwork in the Femern Bælt. Femern Bælt A/S. Orbicon.
2008-2009	Organic agriculture as refuge for biodiversity (REFUGIA). Botanical species identification of weeds, as well as the collection of insects (Pterostichus spp.) in the field. Biomass determination of plant samples. DMU.
2008-2009	Lighting of climate change impact of biological processes in nature (CLIMATE). Laboratory assistant, freezing earthworms. DMU

Selected publications

Eckford-Soper L, Nørreremark LH, Engell-Sørensen K and Daugbjerg N. Comparison by light microscopy and qPCR of potentially ichthyotoxic microalgae in Danish on-shore lagoons producing European flounder (*Platichthys flesus*): Pros and cons of microscopical and molecular methods. Submitted to Harmful Algae News December 2017

Rønneseth, A; Castillo, Daniel; D'Álvise, P; Tønnesen, Ø; Haugland, G; Grotkjær, T; Engell-Sørensen, K; Nørreremark, L; Bergh, Ø; Wergeland, HI; Gram, L, 2016. Comparative assessment of *Vibrio* virulence in marine fish Larvae. Journal of Fish Diseases. DOI: 10.1111/jfd.12612
https://mc.manuscriptcentral.com/downloads/linkpool/prod1/jfd/2016/11/s1-In254828511148881150-1939656818Hwf-6008881IdV131704308425482851PDF_HI0001.pdf

Andersen, NG; Hansen, PJ; Engell-Sørensen, K; Nørremark, LH; Andersen, P; Lorenzen, E; Lorenzen, N, 2015. Ichthyotoxicity of the microalga *Pseudochattonella farcimen* under laboratory and field conditions in Danish waters. *Diseases of aquatic organisms*, DAO 116:165-172(2015)

<https://doi.org/10.3354/dao02916>

Engell-Sørensen, K and Nørremark, L., 2011-2013. Quarterly data reports of mesozoo- and ichthyo-plankton during baseline and pilot investigations for LI. Torup Deposit Enlargement. Fishlab for Rambøll Oil & Gas.