CURRICULUM VITAE

Name: Mathias Engell Holmstrup

Birth year: 1991

Nationality: Danish

Language: Danish, English, French

Contact info: meh@fishlab.dk

Profession: Marine Biologist

Practical experience with:

- Field surveys of eelgrass and lake vegetation in accordance with the Danish Environmental Protection Agency (EPA) including technical guidelines.
- Field investigations of macrophytes, plankton, fish, Benthos and water column profile (CTD based).
- Data handling and reporting, such as the Danish environmental database (Danmarks Miljøportal) including quality control.
- Development and use of advanced instruments for microscopic measurements.
- Experimental physiology and growth analysis of fish.
- Cultivation of phyto- and zooplankton.
- Live fish transport.
- Presenting to all audiences.
- Navigation and sailing.

Certifications:

- Professional diver's assistant
- Motorboat certificate
- Safety and first aid
- Drivers licence
- Laboratory Animals Science Course
- Danish fish transport certificate
- Freediving instructor, CMAS***

Education:

Period	*Institution*	*Graduation and diploma achieved or in progress*
2014-2016	Aarhus University	Master of Science: Biology (GPA of 9,86)
2011-2014	Aarhus University	Bachelor of Science: Biology
2007-2010	Marselisborg High school	Student exam (physics level A, Math level A, chemistry level B)

Professional Experience:

Period	*Employer*	*Position*	*Description*
2019-Date	Fishlab	Biologist, Scientific diving assistant	Experimental analysis of growth in fishes reared in semi-extensive systems, aquatic flora surveys in Danish lakes and coastal waters, live fish transport.
2017-Date	MicroWISE	Biologist	Product development and testing of instruments used for ballast water, taxonomy and quantification of phyto- and zooplankton.
2018	DHI	Project Manager	Algae production for tests on ballast water management systems.
2017	Dykkerbutikken.dk	Diving instructor	Freediving and spearfishing instructor.
2016	Greenland Institute of Natural Resources	Student assistant	Catch processing and scientific analysis during annual fish and shrimp survey.
2016	Aarhus University	Instructor	Instructor in the course Marine Ecology.
2014-2016	Kattegatcentret, Grenaa	Speaker and zookeeper	Speaking in front of audiences and a student assistant in caretaking of the marine animals in the facility.
2011-2017	Fishlab	Assistant	Research and Aquaculture fieldwork including live animal transport.
2010-2011	Surfline	Shop assistant	Sale of surf and ski equipment Responsible for storage and delivery.
Summers 20102012	Surf Camp N'gor in Senegal	Manager and surf guide	Managing of hotel and five employees surf guide and instructor

Internships and Exchange Programs:

Period	*Institution*	*Internship or exchange program*
2017	DHI	Plankton analysis, product development and testing, taxonomy and quantification of zoo- and phytoplankton.
2015	University of Bergen, Norway	Erasmus scholarship: Master of Science - Biology
2012	Dalhousie University, Canada	TASSEP scholarship: Bachelor of Science - Biology

Scientific Projects and Publications:

Period	*Collaborators*	*Title*	*Publication status*
2019	*Aarhus University, Fishlab*	*Enchytraeus Project. Using enchytraeus as a potential Omega-3 and vitamin rich feed in high-value fish rearing.*	*Not published.*
2018	MicroWISE, IMO	*Updated information on a method for evaluation of the concentration of live organisms in ballast water – The Motility and Fluorescence Assay (MFA)*	Accepted to PPR6 – IMO by Denmark 2018
2018	MicroWISE, DHI and IMO	*Proposed Methodology for Verification of Indicative Ballast Water Monitoring Systems*	Accepted to PPR6 – IMO by Denmark 2018
2020	MicroWISE and DHI	*Preliminary verification studies of the Motility and Fluorescence Assay (MFA) for ballast water quality monitoring.* https://doi.org/10.1016/j.seares.2020.101889	Accepted to Journal of Sea Research March 2020.
2017	Institute of Marine Research (IMR), Norway and Aarhus University, Denmark	*Field metabolic rates of teleost fishes are recorded in otolith carbonate.* https://www.nature.com/articles/s42003-018-0266-5.	Accepted to Nature Communications 2018.
2016	Aarhus University, Denmark	*Latitudinal changes in the diet of northern sand lance (Ammodytes dubius) along the west coast of Greenland: An indicator of ecosystem environmental change*	Not published.
2015	University of Bergen, Norway	*Growth Rate and Rearing Success of Ballan Wrasse at Different temperatures and Feeding Opportunities*	Not published