

# Curriculum Vitae

**Ingeborg M. Mulder**

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## Education:

**Master Aquaculture and Marine Resource Management** **2009 - 2011**  
**Wageningen University** **Graduated 23 Nov 2011**  
**Wageningen, The Netherlands**

Specialization: Marine Ecology

Courses:

Life history of aquatic organisms  
Marine systems  
Marine environmental quality and governance  
Nutrition, welfare and reproduction in aquaculture  
Marine resource management  
Fisheries Ecology  
Advanced Statistics

**University of New Brunswick**  
**Saint John, NB, Canada**

Project :

Small scale movements of *Microgadus tomcod*, tomcod at Musquash, a Marine Protected Area in the Bay of Fundy, Canada.

**April '11 – Oct '11**

Minor thesis of 6 months, as part of my Master degree at Wageningen University.

**Wageningen IMARES**  
**IJmuiden, the Netherlands**

Project :

Dispersal and habitat use in juvenile River lamprey (*Lampetra fluviatilis*).

**Sept '10 – March '11**

Major thesis of 7 months, as part of my Master degree at Wageningen University.

**Bonne Bay Marine Station**  
**Memorial University, NL, Canada**

Courses :

Estuarine Fish Ecology  
Marine Mammals

**June '10 – Aug '10**

2 months study period, as part of my Masters degree at Wageningen University.

**BSc Aquatic Ecotechnology**  
**University of Applied Sciences HZ**  
**Vlissingen, The Netherlands**

**2005 - 2009**

**Atlantic Salmon Federation**  
**Chamcook, NB, Canada**

**Feb '09 – June '09**

Project:

Downstream movements of Atlantic Salmon kelts in a dam impacted river.

A 4 month internship as part of my degree at the University of Applied sciences HZ.

Mentioned in the Atlantic Salmon Journal, Autumn 2009, Vol. 58, Nr 3, p 22 – 27.

**St. Andrews Biological Station, DFO**  
**St. Andrews, NB, Canada**

**Feb '08 – July '08**

Project:

The effect of water temperature on EROD activity in cod liver when exposed to oil and oil dispersants.

A 5 month internship as part of my degree at the University of Applied sciences HZ.

**University of Waterloo**  
**Waterloo, ON, Canada**

**Sept '07 – Dec '07**

Minor :

Coastal Geomorphology  
Environmental Toxicology 1  
Introductory Zoology  
Wetlands

A 4 month exchange program as part of my degree at the University of Applied sciences HZ.

**Highschool – Bonhoeffer College**  
**Castricum, The Netherlands**

**2000 - 2005**

Profile Nature & Health

### **Technical expertise**

- Taking water samples in fresh, brackish and salt water.
- Monitoring and analysing pH, oxygen and salinity in water streams, canals and lakes.
- Taking water samples aboard a research vessel.
- Experienced with appliances/methods (determine of nutrients in water):
  - Hach kit, Dr. Lange
  - Flame Atomic Absorption Spectrometry
  - Titration methods
  - Distillations (e.g. Büchi steam appliance)
- Experienced in the use of software packages:
  - AutoCAD / GIS / DufLOW / Gen5 / SPSS / VUE / R
  - Word / Excel / PowerPoint
- Experienced in the use of BioTek
  - Power wave XS 96 well plate reader
  - FLX 800 96 well plate reader
- Experienced in using the DIDSON.
- Experienced in tissue sampling of juvenile Atlantic cod.
- Experienced in tissue collection and PIT tagging of Atlantic salmon.
- Experienced in using acoustic telemetry, sonic tagging and tracking adult salmon, European eel and tomcod.
- Experienced in sampling river lamprey larvae in river systems.
- Experienced in handling and transporting salmon eggs.
- Experienced in conducting cod exposure experiments.
- Experienced in sampling fish fauna during a benthic survey on the North Sea.
- Experienced in working with a smolt wheel.
- Experienced in catching, handling and the release of tomcod.
- Experienced in using fyke nets.
- Some experience with electro fishing.

### **Employment experience**

- Chairwoman of the promotion team for the study Aquatic Ecotechnology for 2 years (2005-2006).
- Sailing instructor at a sailing school from 2004 to present.
- Speed skating instructor for children from 6-10 years old, from 2008 to 2011.

### **Qualifications**

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|--------------------------------|------|
| • Typing certificate           | 2001 |
| • Sailing instructor C         | 2004 |
| • Sailing instructor A         | 2005 |
| • Certificate Open Water Diver | 2007 |
| • Driving licence              | 2009 |
| • Pleasure Craft Operator Card | 2010 |

### **Rewards**

- Nomination of BSc - thesis report for best honours project in study year 2008/2009 ('HZ – stern').

### **Publications**

- Lyons, M.C., Wong, D.K.H., Mulder, I, Lee, K., Burridge, L.E. (2011) The influence of water temperature on induced liver EROD activity in Atlantic cod (*Gadus morhua*) exposed to crude oil and oil dispersants. *Ecotoxicology and Environmental Safety* 74, Issue 4, p. 904-910.

### **Courses attended**

- Canadian Aquaculture Institute, "The Experimental Fish" online course.
- University of New Brunswick, "Seminar on basic level radiation safety".
- St. Andrews Biological Station, "Emergency Response Training".
- Marine Advanced First Aid Training – 2008
- First Aid Training with CPR and AED – 2009
- Noordzeedagen 2010; I took part as a student from Wageningen University in organizing this conference in the Netherlands.
- Presented my minor master thesis on *Microgadus tomcod* at the Saint John Naturalist Club, Canada.
- Presented my minor master thesis on *Microgadus tomcod* at the 9<sup>th</sup> Bay of Fundy Science Workshop in Saint John, Canada.

### **Personal**

Date of Birth: 23<sup>rd</sup> November 1987

Nationality: Dutch

Marital Status: Unmarried

### **Interests**

Sailing, speed-skating, snowboarding, snowshoeing, open water diving, reading books, playing the piano.

### **References**

Available upon request.