

## Curriculum Vitae

### Personal information

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Name:	Nynne Hjort Nielsen	Phone:	+45 27122717
Date of birth:	27/12 – 1981	E-mail:	nhn@ghsdk.dk
Place of birth:	Drejø (Svendborg)	Nationality:	Danish

### Education

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2011                      Cand. Scient. (M. Sc.) Biology. University of Copenhagen  
Title: *Age Determination by Aspartic Acid Racemization and Growth Layer Groups, and Survival Rates of Fin Whales (*Balaenoptera physalus*) and Harbour Porpoises (*Phocoena phocoena*)*  
Supervisors: Eske Willerslev, Eva Garde, Mads Peter Heide-Jørgensen, Steen Honoré Hansen

2006                      B. Sc. Biology. University of Copenhagen  
Title: *Metabolic Rate, EPOC, Optimal and Critical Swimming Speed in Rainbow trout (*Onchorynchus mykiss*)*  
Supervisors: John Fleng Steffensen, Jon Svendsen, Kim Aarstrup

## Work experience

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- 2011 – Scientific assistance at Greenland Institute of Natural Resources  
*Collection of samples from bowhead whale hunt in Ilulissat. Tagging of narwhal, beluga and walrus in Qaanaaq and Ittoqqortoormiit. Data processing and preparations of scientific papers.*
- 2010 – 2011 Student worker at Greenland Institute of Natural Resources  
*Collection of samples from bowhead whale hunt in Assiat and Ilulissat. Tagging of bowhead whales in Qeqertasuaq and narwhal in Ittoqqortoormiit. Necropsy of 90 harbour porpoises in Nuuk.*
- 2007 – 2011 Copenhagen Zoo – the Educational Department  
*Teaching biology to junior high school, high school, and teachers' colleges students; including hands-on experimental class work. Also, afterhours guided tours and workshops outside the Zoo. As of 2011 affiliated as substitute teacher/guide.*
- 2007 Mentor for an Erasmus student
- 2007 - 6 months Counselor of High School students  
*A project under University of Copenhagen, named "Studenterbroen", with the purpose of distribute natural science to high school students. Only affiliated during the start-up phase.*
- 2005 – 2007 Supervisor at restaurant "Den Kongelige Tribune"  
*Weekends only. Responsible for the supervision of the restaurant and the staff (two chefs and two waiters).*
- 2006 Mentor for 1st year biology students
- 2005 – 2006 Receptionist at the Natural History Museum of Denmark  
*Telephone exchange, being of assistance to incoming calls from the public, regarding questions concerning wildlife and nature.*

- 2005 – 2008                      Teacher of Junior High School  
*A project from University of Copenhagen, called “Cirkus Naturligvis”, with the purpose of distribute natural science to Junior High school students.*
- 2002 – 3 months                Camp counselor at a Girl Scout camp, “Camp Lakamaga”, MN, USA
- 1999 – 2003                      Laboratory assistance at Copenhagen Fur  
*Assisting the laboratory technicians.*

## **Fieldwork experience**

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- 2012                      Tagging of narwhal and walrus in Qaanaaq.
- 2012                      Flight survey in West Greenland. Target species: Whales, seals and birds. (150 hours)
- 2011                      Tagging of narwhal, beluga and walrus in Qaanaaq (*Expedition leader*).
- 2011                      Data collection and samples from one bowhead whale, hunted in Ilulissat, Greenland.
- 2010                      Flight survey in the North Water with base in Qaanaaq. Target species: Whales, seals and birds.
- 2010                      Data collection and samples from two bowhead whales hunted in Asiaat and Ilulissat.
- 2010                      Assisting the scientific staff from the Icelandic Marine Research Institute in their data sampling of fin whales in Hvalfjörður, Iceland. Concurrently I gathered data for my Master thesis.
- 2010                      Dissection of 90 harbour porpoises in Nuuk, as part of a larger study on their overall biological condition in a 14 year period. Also, samples were taken for my master thesis.
- 2009                      As part of a course in “Wildlife Ecology and Management” at University of Aarhus, I conducted a small project with three fellow students, on the harbour porpoises use of Roskilde Fjord.
- 2008                      As a part of a course in “Arctic Biology” at University of Copenhagen, I conducted fieldwork at Arctic Station, Qeqertarsuaq, in collaboration with other students and scientists from University of

Copenhagen. The project treated the environmental influences on the tadpole scrimp (*Lepidurus arcticus*) along with genetic studies (title: “A paleolimnologic study in three Greenlandic lakes of interactions between *Lepidurus arcticus*, *Daphnia pulex*, *Eurycercus glacialis* and *Colymbetes delabratus*, and their relation to climate change”).

#### *Scheduled fieldwork in 2012:*

Tagging of harbor porpoise in Maniitsoq (14 days in July)

Three flight survey in Melville Bay (Total of 150 hours in July/August/September)

Tagging of narwhal in Scoresbysound (three weeks in August)

## Publication list

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#### *Peer reviewed*

**Nielsen, N.H.**, M.W. Jacobsen, L.L. Graham, H.C. Morrogh-Bernard, L.J. D`Arcy, M. Harrison. 2011. Successful germination of seeds following passage through orang-utan guts. *Journal of Tropical Ecology* **27**: 433-435

**Nielsen, N.H.**, E. Garde, M.P., Heide-Jørgensen, C. Lockyer, S.H. Hansen. 2012. Application of a novel technique for age estimation of a baleen and a toothed whale. *Marine Mammal Science* DOI:10.1111/j.1748-7692.2012.00588.x

**Nielsen, N. H.** 2012. Age Estimation With Age Validation From Eye Lens of Fin Whales and Harbour Porpoises. Scientific Committee report of the North Atlantic Marine Mammal (NAMMCO) Annual Report of 2012.

**Nielsen, N.H.**, M. P. Heide-Jørgensen, Gísli Víkingsson, S. Ditlevsen, S. H. Hansen. Age estimation of minke whales (*Balaenoptera acutorostrata*) from aspartic acid racemization. In prog.

Christiansen, C.T., P.T. Nielsen, **N.H. Nielsen**, P. Hendriksen and L.A. Kyhn. 2009. Marsvins (*Phocoena phocoena*) brug af Roskilde Fjord [in danish]. *Flora & fauna* 2-3, pp. 39-45

Heide-Jørgensen, M.P., E. Garde, **N.H. Nielsen**, O.N. Andersen, S.H. Hansen. In press. Biological data from the hunt of bowhead whales in West Greenland 2009 and 2010. *Journal of Cetacean Research and Management*

Heide-Jørgensen, M.P., M. Iversen, **N.H. Nielsen**, C. Lockyer, H. Stern, M.H. Ribergaard. 2011. Harbour porpoises respond to climate change. *Ecology and Evolution*. doi: 10.1002/ece3.51

Garde, E., M.F. Bertelsen, M.P. Heide-Jørgensen, **N.H. Nielsen**, A.K. Frie, D. Olafsdottir, U. Siebert, S. H. Hansen. Temperature-dependent racemization rates of aspartic acid in mammalian eye lenses - implications for age estimation and longevity. Submitted. *Zoology*

Heide-Jørgensen, M.P., R.G.Hansen, **N. H. Nielsen**, M. Rasmussen. The significance of the North Water to Arctic marine mammals. Accepted, *Ambio*

Heide-Jørgensen, M.P., R.G. Hansen, **N. H. Nielsen**. Movements patterns of narwhals in East Greenland. In prep., *Polar Biology*

Heide-Jørgensen, M.P., R.G. Hansen, **N.H. Nielsen**. Ice-dependent area usage of the North Water by Atlantic walruses. In prep., *Polar Biology*

Heide-Jørgensen, M.P., K. L. Laidre, **N.H. Nielsen**, R. G. Hansen, A. Røstad. Winter and spring feeding behavior of bowhead whales. In review, *Marine Ecology Progress Series*

#### *Other publications*

**Nielsen, N.H.** 2012. Big Brother i hvalernes verden – narhvalernes vandring i Østgrønland. Dansk Zoologisk Selskab medlemsblad "Habitat".

**Nielsen, N. H.** and M. W. Jacobsen. 2008. Genetic and morphological variation in *Lepidurus arcticus* from Disko Island, Greenland. in: "Arctic biology field course 2008" (Christiansen, C. T. and R.S. Larsen, eds.) pp. 85-89. Arctic Station and University of Copenhagen. Hillerød, Denmark.

Jacobsen, M. W. and **N. H. Nielsen**. 2008. A paleolimnologic study in three Greenlandic lakes of interactions between *Lepidurus arcticus*, *Daphnia pulex*, *Eurycercus glacialis* and *Colymbetes dolabratus*, and their relation to climate variations. in: "Arctic biology field course 2008" (Christiansen, C. T. and R.S. Larsen, eds.) pp. 71-84. Arctic Station and University of Copenhagen. Hillerød, Denmark.

*Talks and posters*

Natural History Museum Denmark (2011). *A talk on the age estimation method used in my thesis: The Aspartic Acid Racemization method.*

19th Biennial Conference on the Biology of Marine Mammals (Florida, USA, 2011). *Poster presentation at the conference and an oral presentation at the “Monodontid Age Workshop”.*

*Funding and grants*

2011: 11.500Dkr from the Greenlandic Ministry of Education, Research and Nordic Cooperation

2012: KVUG (Commission for Scientific Research in Greenland under Ministry of Science, Innovation and Higher Education). PhD grant, full funding.

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