

Curriculum vitae

Name Malene Juul Simon
Date of birth 18th September 1973
Citizenship Danish
Affiliation Greenland Climate Research Centre, Greenland Institute of Natural Resources, P.O. box 570, Kivioq 2, 3900 Nuuk, Greenland.
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Education

Ph.D. Simon, M. **2011.** The sounds of whales and their food: Baleen whales, their foraging behaviour, ecology and habitat use in an arctic habitat. Institute of Biological Sciences, University of Aarhus, Denmark. Supervisor: Prof. P. T. Madsen.

M.Sc. Simon, M. **2004.** Sounds produced by foraging killer whales (*Orcinus orca*). Institute of Biology, University of Copenhagen, Denmark. Supervisors: Dr. L. A. Miller and Dr. M. K. Wahlberg.

Employments

Jan 2012-current: Senior scientist. Greenland Climate Research Centre, Greenland Institute of Natural Resources.

Dec. 2010-Dec. 2011: Post doctoral fellowship, Greenland Climate Research Centre, Greenland Institute of Natural Resources.

May 2006-Nov. 2010: PhD student at the Institute of Biological Sciences, University of Aarhus, Denmark.

1 Jun-30 Nov 2007: Working leave from PhD to work as project coordinator of the Greenlandic participation in T-NASS (Trans-North Atlantic Sighting Survey), NAMMCO.

Aug. 2005-Apr. 2006: Researcher at the Greenland Institute of Natural Resources. (Contact: K. Nygaard, KINy@Natur.gl).

2003-2005: Associated researcher, Sea Watch Foundation Wales, UK. (Contact: Dr. Peter Evans, Peter.Evans@Zoo.ox.ac.uk)

2002: Attendant in the exhibition at The University of Copenhagen, Zoological Museum. (Contact: Vibeke Boye, VTBoye@zmuc.ku.dk).

2000-02: Student assistant at the Department of Marine Invertebrates, Zoological museum of Copenhagen. (Contact: Dr. Ole Tendal, OSTendal@zmuc.ku.dk)

2000-02: Attendant at the Aquarium of Øresund, Helsingør, Denmark. (Contact: Jens P. Jeppesen, JPJeppesen@bi.ku.dk).

1997-98: Project Dannemare. Assisting Jackie Ciano evaluating the feasibility of establishing a dolphinarium in Southern Zealand, Denmark

Periods of leave 13 Aug 2009-11 Mar 2010: Maternity leave
24 Jun-22 Dec 2008: Maternity leave

Research experience (*PI=Primary investigator, CL=Cruise leader*)

Telemetry studies: Satellite and VHF tracking of killer whales in Norway (2001) and Iceland (2002); Satellite tagging of fin- and humpback whales in West Greenland (2005, *CL*); D-tagging bowhead and humpback whales in West Greenland (2007-present, *PI*).

Sighting surveys: Marine mammal surveys in the Celtic Deep (Wales), Cardigan Bay (Wales) and Hebrides (Scotland), UK (2003-04). Assistant Coordinator of the National Whale and Dolphin Watch, UK (2004). Plane and ship based surveys of marine mammals in West Greenland (2005-07, *CL*), including multispecies ship survey (2005, *CL*), winter cetacean survey (2006, *CL*) and coordination of the Greenlandic part of T-NASS (2007);

Acoustic studies: Contact whistles of bottlenose dolphins in Israel (1998 *PI*); Source level of sperm whale echolocation in Norway (2000); Echolocation and acoustic behavior of killer whales in Norway (2001 *PI*), Iceland (2002 *PI*) and Spain (2004 *PI*); Source levels of spider monkeys in Mexico (2002); Echolocation of white beaked dolphins in Iceland (2003); Echolocation of bottlenose dolphin, common dolphin and harbor porpoise in Wales (2003-05 *PI*); Passive acoustic monitoring of vocal marine mammals in West Greenland (2007-present *PI*).

Photo identification: Killer whales, Iceland (2002); Bottlenose dolphins, Wales (2003-04); Greenlandic humpback whale catalogue (2006-present *PI*).

Necropsies and sampling: Analysis of squid beaks from sperm whale and harbour porpoise stomachs; Developing and running an extensive sampling programme of the aboriginal catches of baleen whales and polar bears (2010-present *PI*).

Co-supervision of students:

Nielsen, J. 2013. Age estimation and feeding ecology of Greenland shark *Somniosus microcephalus* in Greenland waters. Aquatic Science and Technology, University of Copenhagen.

Boye, T. 2008. Habitat use by humpback whales in Nuuk Fjord, Greenland. University of Aarhus, Denmark.

Bates, H. 2007. Social structure, habitat use and patterns of movement of killer whales (*Orcinus orca*) in the Vestmannaeyjar Archipelago, southern Iceland. University of Exeter, Cornwall.

Eskesen, I. 2006. Comparison of long-finned pilot whale (*Globicephala melas*) and Norwegian killer whale (*Orcinus orca*) echolocation clicks. University of Southern Denmark, Odense.

Reyes Zamudio, M.M. 2005. TPOD detection and acoustic behaviour of bottlenose dolphins in Cardigan Bay SAC: a comparison between visual and TPOD surveys. University of Wales, Bangor.

Reviewing activities: Journal of Bioacoustics, Journal of Aquatic Mammals, Journal of the Acoustical Society of America, Polar Biology, Journal of the Marine Mammal Science, Journal of Applied Ecology, Journal of Deep Sea Research

Received external funding (only grants of >20.000 kr and where I am the PI)

Carlsberg Foundation 2012 - 507.027 kr

Commission of Research in Greenland (KVUG) 2011 - 221.400 kr

Bureau of Minerals and Petroleum, Grl. Governm. 2011 - 1.588.000 kr (2 grants)

Greenland Climate Research Centre 2011 – 2014 - 1.008.000 kr (2 grants)

IIIN, Ministry of Education, Res. Nord. Coop., Grl. Governm. 2005-2011 - 242.000 kr (6 grants)

Buster Magnum with 150 HP engine 2008 – Partly sponsored

The Oticon Foundations PhD stipend. 2006 - 1.700.000 kr

Countryside Council for Wales, UK. 2005 - 385.000 kr

The Oticon Foundation's stipend for M.Sc. students. 2002 - 100.000 kr

Peer reviewed publications

25. Boye, T. K., **Simon, M.** and Witting, L. How may an annual removal of humpback whales from Godthåbsfjord, West Greenland, affect the within fjord sighting rate? Submitted to Journal of Cetacean Research and Management.
24. Nielsen, J, Hedeholm, R.B., **Simon, M.**, Steffensen, J.F. Distribution and feeding ecology of the Greenland shark (*Somniosus microcephalus*) in Greenland waters. Polar Biology. *In press*
23. Goldbogen, J., Friedlaender, A. S., Calambokidis, J., McKenna, M. F., **Simon, M.**, Nowacek, D. Using multi-sensor tags to determine the kinematics and feeding performance of baleen whales. *BioScience*. 63: 90-100.
22. Tervo, O.M., Christoffersen, M. F., **Simon, M.**, Miller, L.A., Jensen, F.H., Parks, S.E. and Madsen, P.T. High source levels and small active space of high pitched song in bowhead whales (*Balaena mysticetus*). *PLoS ONE* 7(12): e52072. doi:10.1371/journal.pone.0052072.
21. **Simon, M.**, Johnson, M. and Madsen, P.T. **2012**. Keeping momentum with a mouthful of water: Behavior and kinematics of humpback whale lunge feeding *Journal of Experimental Biology*. 215: 3786-3798.
20. Heide-Jørgensen, MP, Laidre, KL, Hansen, RG, **Simon, M**, Burt, ML, Borchers, DL, Hansen, J, Harding, K, Rasmussen, M, Dietz, R and Teilmann, J. **2012**. Rate of increase and current abundance of humpback whales in West Greenland. *J. Cetacean Research and Management*. 12(1): 1–14.
19. Wahlberg, M., Jensen, F. H., Aguilar Soto, N., Beedholm, K., Bejder, L., Johnson, M., Oliveira, C., Rasmussen, M., **Simon, M.**, Villadsgaard, A. and Madsen, P. T. **2011**. Source Parameters of Echolocation Clicks from wild Bottlenose Dolphins (*Tursiops truncatus* and *T. aduncus*). *Journal of the Acoustical Society of America* 130 (4):2263–2274.
18. Eskesen, I., Wahlberg, M., **Simon, M.** and Larsen, O. N. **2011**. Distinct differences in echolocation clicks from geographically sympatric killer whales and long-finned pilot whales. *J. Acoustical Society of America* 130(1): 9-12.
17. Laidre KL, Heide-Jørgensen, M.P., Heagerty, P., Cossio, A., Bergström, B., **Simon, M.** **2010**. Spatial associations between large baleen whales and their prey in West Greenland. *Marine Ecology Progress Series* 402: 269-284.
16. **Simon, M.**, Nuuttila, H., Reyes-Zamudio, M.M., Ugarte, F., Verfuß, U. and Evans, P.G.H. **2010**. Passive acoustic monitoring of bottlenose dolphin and harbour porpoise with implications for habitat use and partitioning. *Journal of Marine Biological Association of the UK* 90(8), 1539–1545.
15. Boye T. K., **Simon M.J.** and Madsen P. T. **2010**. Habitat use of humpback whales in Godthaabsfjord, West Greenland, with implications for commercial exploitation. *Journal of the Marine Biological Association of the United Kingdom*. 90(8): 1529-1538
14. **Simon, M.**, Stafford, K.M., Beedholm, K., Lee, C.M. and Madsen, P.T. **2010**. Singing behavior of fin whales in the Davis Strait with implications for mating, migration and foraging. *Journal of the Acoustical Society of America* 128: 3200-3210
13. Heide-Jørgensen, M.P., Laidre, K.L., **Simon, M.**, Rasmussen, M., Burt, M.L., Borchers, D.L. and Rasmussen, M. H. **2010**. Abundance of fin whales in West Greenland in 2007. *J. Cetacean Research and Management*. 11(2): 83-88.
12. **Simon, M.**, Hanson, B., Tougaard, J., Murrey, L., and Ugarte, F. **2009**. From captivity to the wild and back. An attempt to release Keiko the killer whale. *Marine Mammal Science* 25(3):693-705
11. Heide-Jørgensen M.P., Laidre K.L., **Simon M.J.**, Borchers D., Stern H. **2009**. The effect of sea-ice loss on beluga whales (*Delphinapterus leucas*) in West Greenland. *Polar Research* doi:10.1111/j.1751-8369.2009.00142.x
10. Laidre, K.L., Heagerty, P.J., Heide-Jørgensen, M.P., Witting, L., **Simon, M.J.** **2009**, Sexual segregation of common minke whales (*Balaenoptera acutorostrata*) in Greenland, and the influence of sea temperature on the sex ratio of catches. *ICES Journal of Marine Science*, 66:1-14

9. **Simon, M.**, Johnson, M., Madsen, P.T. **2009**, Behaviour and kinematics of continuous ram filtration in bowhead whales (*Balaena mysticetus*), *Proceedings of the Royal Society of London*. 276 (1674): 3819-3828.
8. Heide-Jørgensen, M.P., Borchers, D.L., Witting, L., Laidre, K.L., **Simon, M.J.**, Rosing-Asvid, A. and Pike, D.G. **2008**. Estimates of large whale abundance in West Greenland waters from an aerial survey in 2005. *J. Cetacean Research and Management*. 10(2):119–129.
7. Heide-Jørgensen, M.P., **Simon, M.J.** & Laidre, K. L. **2007**. Estimates of large whale abundance in Greenland waters from a ship-based survey in 2005. *Journal of Cetacean Research and Management*. 9(2):95–104.
6. **Simon, M.**, McGregor, P.K. & Ugarte, F. **2007**. The relationship between the acoustic behaviour and surface activity of killer whales that feed on herring. *Acta Ethologica*. 10:47-53.
5. Heide-Jørgensen, M.P. and **Simon, M.J.** **2007**. Cue rates for common minke, fin and humpback whales in West Greenland. *Journal of Cetacean Research and Management*. 9(3): 211-214.
4. **Simon, M.**, Wahlberg, M. and Miller, L. **2007**. Echolocation clicks from killer whales (*Orcinus orca*) feeding on herring (*Clupea harengus*) in Norwegian waters. *J. Acoustical Society of America*. 121(2):749-752.
3. **Simon, M.**, Wahlberg, M. & Miller, L. **2006**. Icelandic killer whales (*Orcinus orca*) use a pulsed call suitable for manipulating the schooling behaviour of herring (*Clupea harengus*). *Bioacoustics* 16: 57-74
2. **Simon, M.**, Ugarte, F., Wahlberg, M. and Miller, L. **2005**. Acoustic characteristics of underwater tail-slaps used by Norwegian and Icelandic killer whales (*Orcinus orca*) to debilitate herring (*Clupea harengus*). *Journal of Experimental Biology* 208: 2459-2466.
1. **Simon, M.J.**, Kristensen, T.K., Tendal, O.S., Kinze, C.C. & Tougaard, S. **2003**. *Gonatus fabricii* (Mollusca, Theuthida) as an important food source for sperm whales (*Physeter macrocephalus*) in the Northeast Atlantic. *Sarsia* 88: 244-246.