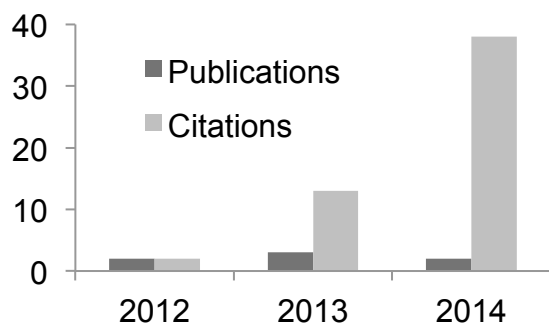


JULIE M. VAN DER HOOP
CURRICULUM VITAE



Biology Department MS # 50
Woods Hole Oceanographic Institution
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EDUCATION

- 2011 – Present Massachusetts Institute of Technology/Woods Hole Oceanographic Institution Joint Program in Oceanography.
Ph.D. (expected 2016), Biological Oceanography.
Advisor: Michael J. Moore, Biology Department
- 2006 – 2010 Dalhousie University
B.Sc. Combined Honours, Marine Biology and Oceanography, first class honours.
GPA: 3.93, Dean's List 2006 – 2010.
Thesis: Determining the absolute probability of vessel-strikes to North Atlantic right whales, *Eubalaena glacialis*, on the Scotian Shelf.
Advisor: Christopher T. Taggart, Oceanography Department

PUBLICATIONS

- van der Hoop, J.M.**, A. Fahlman, T. Hurst, J. Rocho-Levine, K.A. Shorter and M.J. Moore. Bottlenose dolphins modify behavior to reduce metabolic effect of tag attachment. In Press. Journal of Experimental Biology doi: 10.1242/jeb.108225
- van der Hoop, J.M.**, A. S. M. Vanderlaan, T. V. N. Cole, A. G. Henry, L. Hall, B. Mase-Guthrie, T. Wimmer, and M. J. Moore. 2014. Vessel strikes to large whales before and after the 2008 Ship Strike Rule. Conservation Letters. doi: 10.1111/conl.12105
- van der Hoop, J. M.**, M. J. Moore, A. Fahlman, A. Bocconcelli, C. George, K. Jackson, C. Miller, D. Morin, T. Pitchford, T. Rowles, J. Smith, and B. Zoodsma. Behavioral impacts of disentanglement of a right whale under sedation and the energetic cost of entanglement. Marine Mammal Science DOI 10.1111/mms.12042.
- Moore, M. J., **J. M. van der Hoop**, S. G. Barco, A. M. Costidis, F. M. Gulland, P. D. Jepson, K. T. Moore, S. Raverty and W. A. McLellan. 2013. Criteria and case definitions for serious injury and death of pinnipeds and cetaceans caused by anthropogenic trauma. Diseases of Aquatic Organisms 103:229-264.
- van der Hoop, J. M.**, M. J. Moore, S. G. Barco, T. V. Cole, P. Y. Daoust, A. G. Henry, D. F. McAlpine, W. A. McLellan, T. Wimmer and A. R. Solow. 2013. Assessment of management to mitigate anthropogenic effects on large whales. Conservation Biology 27:121-133.
- van der Hoop, J. M.**, A. S. M. Vanderlaan and C. T. Taggart. 2012. Absolute probability estimates of lethal vessel strikes to North Atlantic right whales in Roseway Basin, Scotian Shelf. Ecological Applications 22:2021-2033.
- Moore, M. J. and **J. M. van der Hoop**. 2012. The painful side of trap and fixed net fisheries: chronic entanglement of large whales. Journal of Marine Biology 2012:1-4.

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HONOURS AND AWARDS

- 2014 – 2015 MIT Martin Family Sustainability Fellow
- 2013 Endangered Species Print Project Student Presenter Award, North Atlantic Right Whale Consortium Annual Meeting.
- 2013 Wainwright Fellowship, University of Washington Friday Harbor Laboratories
- 2013 - 2016 NSERC Alexander Graham Bell Canada Graduate Scholarship (Doctoral Level)
- 2011 Coastal Oceans Institute Student Award, Woods Hole Oceanographic Institution
- 2011 Von Damm Fellowship, Woods Hole Oceanographic Institution
- 2011 NSERC Alexander Graham Bell Canada Graduate Scholarship (Masters Level)
- 2010 Honourable Mention, Poster. American Cetacean Society 12th International Conference
- 2010 Constance I MacFarlane Scholarship, Dalhousie University
- 2009 David Durward Memorial Prize, Achievement in Animal Physiology, Dalhousie University
- 2007 - 2009 Merit-Based In Course Scholarships, Dalhousie University

GRANTS AND FUNDING: TOTAL TO DATE \$742,608

Research Grants: \$524,068

- 2014 Cooperative Institute for the North Atlantic Region (CINAR): Effects of Drag from Entanglement in Fishing Gear in Right Whales \$51,246
Co-PIs: Moore and van der Hoop
- 2013 Herrington-Fitch Family Foundation: Effects of Drag from Right Whale Entanglement in Fishing Gear \$54,000
Co-PIs: Moore and van der Hoop
- 2012 WHOI Marine Mammal Center: Estimating drag forces and energetics of free-swimming entangled whales \$417,557
PIs: Thorrold, van der Hoop (co-PI), Miller, Grosenbaugh
- 2012 WHOI Coastal Oceans Institute: Potential chemical cues released from whale tissue PI: van der Hoop \$1265

Fellowships: \$208,100

- 2014 MIT Martin Family for Sustainability Fellowship \$60,000
- 2013 University of Washington Wainwright Fellowship \$1,600
- 2013 NSERC Post Graduate Scholarship (Doctoral Level) \$105,000
- 2011 NSERC Post Graduate Scholarship (Masters Level) \$17,500
- 2011 WHOI Von Damm Fellowship \$24,000

Other Financial Awards: \$10,440

- 2014 WHOI Biology Department Student Travel Grant \$500, WHOI Travel Grant \$750, MIT Student Assistance Fund \$1000
- 2013 WHOI Biology Department Education Support \$1000, WHOI Academic Programs Office Education Support \$2400
- 2013 MIT Student Assistance Fund \$1000, WHOI Travel Grant \$750, MIT Graduate Student Council Travel Grant \$500, Biology Department Student Travel Grant \$600
- 2012 MIT Student Assistance Fund \$220, WHOI Travel Grant \$220
- 2011 MIT Student Assistance Fund \$1000, WHOI Travel Grant \$500

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PRESENTATIONS

- van der Hoop, J.M.**, J. Kenney, S. Landry, D. Morin, D. Sandilands, J. Smith, M. J. Moore 2014. Drag from entangling fishing gear: Costs and gains. . North Atlantic Right Whale Consortium Meeting, New Bedford, MA (International, Oral).
- van der Hoop J.M.**, A. Fahlman, M. Brodsky, S. Emmert, T. Hurst, M. Johnson, J. Rocho-Levine, K.A. Shorter, R. Wells, M.J. Moore 2014. Physiological studies with suction cup tags. Office of Naval Research Program Review. Washington, D.C. (International; Poster).
- van der Hoop, J.M.***, A. Fahlman, S. Emmert [10 Authors] 2014. Acoustic parameters as indicators of metabolic rate in Bottlenose Dolphins. 5th Biologging Science Symposium. Strasbourg, France (International; Oral).
- van der Hoop, J.M.***, A. Fahlman, M. Brodsky [20 Authors] 2014. Cetacean lung mechanics and metabolics from a portable pneumotachometer. Aarhus University Diving Physiology Workshop. Aarhus, Denmark (International; Oral).
- van der Hoop, J.M.*** 2014. Probabilities and trends of large whale mortality in the NW Atlantic. Large Whale Distribution and Occurrence Workshop. NOAA South West Fisheries Science Center, La Jolla, CA (Federal; Oral).
- van der Hoop, J.M.***, A. Fahlman, T. Hurst, J. Rocho-Levine, K.A. Shorter and M.J. Moore. 2013. Metabolic and behavioural effects of tag attachment in *Tursiops truncatus*. 20th Biennial Conference on the Biology of Marine Mammals. Dunedin, NZ. (International; Oral)
- Hickmott, L.S.* , **J. van der Hoop**, W. Rayment, E. Slooten, M. Guerra, A. Fahlman, M. Brown, D. LeRoi, W. Perryman, M. Brodsky, B. S. Miller and M. J. Moore. 2013. New Zealand sperm whales (*Physeter macrocephalus*): From an eye in the sky to insights in the abyss, a multi-disciplinary study of the sperm whales of Kaikoura Canyon. 20th Biennial Conference on the Biology of Marine Mammals. Dunedin, NZ. (International; Oral)
- van der Hoop, J.M.***, A.S.M. Vanderlaan, L. Hall, B. Mase-Guthrie, T. Wimmer and M.J. Moore. 2013. Vessel-strikes to large whales before and after the 2008 Ship Strike Rule. North Atlantic Right Whale Consortium Meeting, New Bedford, MA (International, Oral).
- van der Hoop J.M.***, M.J. Moore, A.H. Fahlman, [12 Authors] 2012. Behavioral impacts of disentanglement of a right whale under sedation and the energetic cost of entanglement. WSPA Conference on Entanglement in Marine Debris, Miami, FL, USA (International; Oral and Poster)
- van der Hoop J.M.***, M.J. Moore, S.G. Barco, [12 Authors] 2011. Spatial and Temporal Trends in Large Whale Mortality in the Northwest Atlantic in the Context of Efforts to Mitigate Human Impacts. 19th Biennial Conference on the Biology of Marine Mammals. Tampa, FL, USA. (International; Oral)
- Smith, J.* , **J.M. van der Hoop**, T. Pitchford, J.C. George, D. Morin, J. Kenney and M.J. Moore. 2011. Additional drag forces and associated energetic requirements of an entangled right whale. 19th Biennial Conference on the Biology of Marine Mammals. Tampa, FL, USA. (International; Poster)
- van der Hoop, J.M.***, A.S.M. Vanderlaan and C.T. Taggart. 2011. AIS and the Absolute Probability of Lethal Vessel-Strikes. 19th Biennial Conference on the Biology of Marine Mammals. Tampa, FL, USA. Workshop: The Maritime Automatic Identification System. (International; Oral)

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Moore, M.J.*, **J.M. van der Hoop***, T. Rowles, J. Smith, C. George, S. Landry, B. Zoodsma, T. Pitchford, K. Jackson, D. Morin, W.A. McLellan, A. Costidis, and M. Walsh. 2011. Eg 3911 Dec 2010 – Feb 2011 Entanglement/Disentanglement Impacts. Second Workshop on Welfare Issues Associated with the Entanglement of Large Whales, International Whaling Commission IWC/63/WKM&AWI. Provincetown, MA, USA. (International; Oral).

van der Hoop, J.M.*, M.J. Moore, A. Bocconcelli, J. Smith, T. Pitchford, J.C. George and D. Morin. 2011. The behavioral impacts of disentanglement of a right whale under sedation and the energetic cost of entanglement. North Atlantic Right Whale Consortium Meeting, New Bedford, MA. (International; Oral)

van der Hoop, J.M.* and M.F. Baumgartner. 2010. Estimating swimming paths of tagged baleen whales using an acoustic tracking system. American Cetacean Society, Monterey, CA, USA. (International; Poster)

van der Hoop, J.M.*, A.S.M. Vanderlaan and C.T. Taggart. 2010. Determining the absolute probability of lethal vessel-strikes to North Atlantic right whales, *Eubalaena glacialis*, in the Roseway Basin region of the Scotian Shelf. North Atlantic Right Whale Consortium Meeting, New Bedford, MA. (International; Oral)

van der Hoop, J.M.*. 2010. Determining the absolute probability of vessel-strikes to North Atlantic right whales, *Eubalaena glacialis*, on the Scotian Shelf. Atlantic Undergraduate Biology Conference, Fredericton, NB. (Regional; Oral).

OTHER RESEARCH EXPERIENCE

Jan 2011 – May 2011	Researcher, Canadian Sea Turtle Network
Sept 2010 – Jun 2011	Research Assistant, Biology Department, Woods Hole Oceanographic Institution. Advisor: Michael Moore
2010	Summer Student Fellow, Woods Hole Oceanographic Institution Advisor: Mark F. Baumgartner, Biology Department

TEACHING AND MENTORSHIP EXPERIENCE

Summer 2014	Invited lecturer, Sea Education Association high school summer program (SEAScape)
Summer 2014	Co-Advisor for WHOI Summer Student Fellow (NSF REU Program)
January 2013	WHOI Winter Semester at WHOI Lecturer
August 2010	BIOL 3626 Field Studies - Marine Mammals Instructors: Dr. Deborah Austin, Dr. Damian Lidgard; Dalhousie University
Winter 2010	BIOL 4060 Marine Mammology Instructors: Dr. Deborah Austin, Tonya Wimmer (M.Sc.); Dalhousie University
Fall 2009	BIOL 2003 Diversity of Animals Instructors: Dr. Tamara Romanuk, Dr. Alan Pinder, Jennifer Frail-Gauthier (M.Sc.); Dalhousie University
August 2009	BIOL 3626 Field Studies - Marine Mammals Instructors: Dr. Deborah Austin, Dr. Damian Lidgard; Dalhousie University
Fall 2008	BIOL 2003 Diversity of Plants and Animals Instructors: Dr. Arunika Gunawardena, Dr. Tamara Romanuk, Jennifer Frail-Gauthier (M.Sc.); Dalhousie University

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INVITED WORKSHOPS

September 2014 – Diving Physiology Symposium, Aarhus University, Denmark.
December 2012 – Untangled: Regional and global impacts of marine debris on animal welfare – seeking solutions. World Society for the Protection of Animals (WSPA). Miami, FL, USA.
February 2012 - Criteria and Case Definitions for Human Originated Cause of Death, Proximate or Contributing Cause of Death for: Vessel, Fishing and Gunshot Trauma in Stranded Cetaceans and Pinnipeds. Woods Hole Oceanographic Institution/NOAA. Woods Hole, MA, USA.
October 2011 - Second Workshop on Welfare Issues Associated with the Entanglement of Large Whales, International Whaling Commission IWC/63/WKM&AWI. Provincetown, MA, USA.
February 2011 – Dynamics of Large Whale Entanglements in Fishing Gear, Consortium for Wildlife Bycatch Reduction/New England Aquarium. Woods Hole, MA, USA.

PROFESSIONAL AFFILIATIONS

2010 – Present: Society for Marine Mammalogy
2010 – 2011: Marine Technology Society

PEER REVIEW

Conservation Physiology, Environmental Conservation, PLoS ONE, Endangered Species Research

SELECTED INTERNATIONAL MEDIA COVERAGE

Discovery Magazine: Tagged dolphins adjust by swimming slowly, 27 Oct 2014
Nature News: Ship speed limits can save right whales doi:10.1038/nature.2014.15336
Phys.org: Dolphins assist scientists studying effects of data-logging tags
Science Now: Whales freed from fishing gear may still die a slow death
CBC Radio Quirks and Quarks: Entangled whales suffer slow death, 25 May 2013
Nature News: Whale woe in the North Atlantic doi:10.1038/nature.2012.11547
CBC Radio Quirks and Quarks: Whales for the killing, 27 Oct 2012
Others: Scientific American, Discovery Magazine, NBCNews, Huffington Post, Cape Cod Times, Hawaii News Now, Richmond Review, ++

SYNERGISTIC ACTIVITIES

2013 – Fall 2014	President and Biology Representative, MIT-WHOI Joint Program Student Group
2012 – Present	Student Representative, North Atlantic Right Whale Consortium Board
2012 – Present	Member, Broader Impacts Group, an MIT and WHOI Student Group
2011 – Present	Student Representative, WHOI Sustainability Committee
2011 – Present	Racing Member, MIT Cycling; Sponsorship Officer 2014 – Present
2010 – Present	Volunteer, International Fund for Animal Welfare (IFAW)
2010 – Present	Volunteer, Woods Hole Science and Technology Education Program
2010	Student Voting Member, Dalhousie Undergraduate Curriculum Committee
2009 – 2010	Representative and Voting Member, Dalhousie Science Society
2008 – 2010	Editor, Journal of Undergraduate Science (JUST@Dal), Dalhousie University
2006 – 2010	Captain and Co-President, Dalhousie Field Hockey
2006 – 2010	Member (Executive 2009-2010), Dalhousie Association of Marine Biology Students
2005 – 2010	Volunteer, Vancouver Aquarium and Marine Science Centre, Vancouver, B.C.

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SPECIAL SKILLS

Marine mammal necropsy: grey, harp, hooded seals; bottlenose, common, Atlantic white-sided dolphins; pilot, pygmy sperm, humpback, minke, North Atlantic right whales.

PADI Certified

Fluency in French

Tracker, MATLAB, ArcGIS