

JULIE M. VAN DER HOOP, PHD

Aarhus University Institute for Bioscience
Zoophysiology Department
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ACADEMIC APPOINTMENTS

Marie Skłodowska-Curie Research Fellow 2017-2019
Aarhus University
Supervisor: Peter T. Madsen

Post-Doctoral Investigator Oct 2016-Jan 2017
Woods Hole Oceanographic Institution
Supervisor: Michael J. Moore

EDUCATION

Ph.D. 2011-2016
Massachusetts Institute of Technology-Woods Hole Oceanographic Institution
Joint Program in Biological Oceanography.
Thesis: Effects of added drag on cetaceans – fishing gear entanglement and external tag attachment
Advisor: Michael J. Moore

Kaufman Teaching Certificate in Graduate Student Education 2014
Massachusetts Institute of Technology

B.Sc. Com. Hon. 2006-2010
Dalhousie University
Marine Biology and Oceanography, First Class Honours
Thesis: Determining the absolute probability of vessel strikes to North Atlantic right whales *Eubalaena glacialis* on the Scotian Shelf (van der Hoop et al. 2012)
Advisor: Christopher T. Taggart

RECENT ACTIVITIES

Animove Animal Movement and Remote Sensing in Ecology and Conservation Course, 27 Aug – 5 Sept 2017

Invited Speaker: International Whaling Commission and Office of Naval Research Workshop on Cetacean Tag Development and Best Practices, 6-8 Sept 2017

Bio Logging Symposium, 25-29 Sept 2017

- Oral Presentation: Ventilation rates in free-swimming odontocetes as a measure of field metabolic scaling (van der Hoop et al.)
- Poster: Physiology and movement to assess breathing frequency and tidal volume in marine mammals (Fahlman et al.)
- Poster: Enhanced localization of marine mammals in controlled experimental settings (Shorter et al.)

Invited Speaker: North Atlantic Right Whale Consortium Meeting, 22 Oct 2017

Society for Marine Mammalogy Biennial Conference, 21-27 Oct 2017

- Plenary Speaker: F. G. Wood Award Recipient
- Oral Presentation: Respiratory rates in free-swimming odontocetes as a measure of field metabolic scaling (van der Hoop et al.)
- Poster: Accurate gear type characterization is critical for entanglement mitigation (Asmutis-Silvia et al.)

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PUBLICATIONS

Submitted

- van der Hoop, J.M.**, A. Fahlman, K.A. Shorter, J. Rocho-Levine and M.J. Moore. Energy economy in bottlenose dolphins under different levels of drag. *Journal of Experimental Biology JEXBIO/2017/169292*
- van der Hoop, J.M.**, M. Byron, K. Ozolina, J. Johansen, P. Domenici, and J.F. Steffensen. Turbulent flow reduces oxygen consumption in the labriform swimming shiner perch, *Cymatogaster aggregata*. *Journal of Experimental Biology JEXBIO/2017/168773*

Published

- Guerra, M., L. Hickmott, **J. van der Hoop**, W. Rayment, E. Leunissen, E. Slooten, M. Moore. 2017. Diverse foraging strategies by a marine top predator: sperm whales exploit pelagic and demersal habitats in the Kaikōura submarine canyon. *Deep Sea Research Part I*. 128:98-108.
- Shorter, K.A., Y. Shao, L. Ojeda, K. Barton, J. Rocho-Levine, **J. van der Hoop** and M. Moore. A day in the life of a dolphin: using bio-logging tags for improved animal health and well-being. *Marine Mammal Science*.
- van der Hoop, J.M.**, D.P. Nowacek, M.J. Moore, M. Triantafyllou. 2017. Swimming kinematics and efficiency of entangled North Atlantic right whales. *Endangered Species Research*. doi: 10.3354/esr00781
- van der Hoop, J.M.**, P. Corkeron, A.G. Henry, A.R. Knowlton and M.J. Moore. 2017. Predicting lethal entanglements as a consequence of drag from fishing gear. *Marine Pollution Bulletin* 115: 91-104
- Asmutis-Silvia, R., S. Barco, T. Cole, A. Henry, A. Johnson, A. Knowlton, S. Landry, D. Mattila, M. Moore, J. Robbins, **J. van der Hoop**. 2017. Rebuttal to published article "A review of ghost gear entanglement amongst marine mammals, reptiles and elasmobranchs" by M. Stelfox, J. Hudgins, and M. Sweet. *Marine Pollution Bulletin*.
- van der Hoop, J.M.**, P. Corkeron, M.J. Moore. 2016. Entanglement is a costly life-history stage in large whales. *Ecology and Evolution*. DOI: 10.1002/ece3.2615
- Fahlman, A., **J.M. van der Hoop**, M.J. Moore, G. Levine, J. Rocho-Levine, M. Brodsky. 2016. Estimating field energetics from respiratory frequency: why we need to understand physiology. *Biology Open* 5:436-442.
- van der Hoop, J.M.**, P. Corkeron, J. Kenney, S. Landry, D. Morin, J. Smith, M. J. Moore. 2016. Drag from fishing gear entangling North Atlantic right whales. *Marine Mammal Science* 32: 619-642.
- van der Hoop, J.M.**, A. Fahlman, T. Hurst, J. Rocho-Levine, K.A. Shorter, V. Petrov and M.J. Moore. 2015. Bottlenose dolphins modify behavior to reduce metabolic effect of tag attachment. *Journal of Experimental Biology* 217:4229-4236.
- 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. 2015. Vessel strikes to large whales before and after the 2008 Ship Strike Rule. *Conservation Letters* 8:24-32.
- 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. 2013. Behavioral impacts of disentanglement of a right whale under sedation and the energetic cost of entanglement. *Marine Mammal Science* 30:282-307.
- 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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To be Submitted [within three months; drafts available on request]

Zhang, **van der Hoop** et al. Hydrodynamic drag of bio-logging tags on bottlenose dolphins - How much is too much? Target Journal: Animal Biotelemetry

Moore, **van der Hoop**, et al. Unmanned Aerial System imaging of large whales - a relatively benign tool. Target Journal: Marine Mammal Science

Johnson, Nicol, Bejder, Mattila, **van der Hoop** and Jepson. Cetacean Welfare: A novel application of the Five Domains Model. Target Journal: Animal Welfare

GRANTS AND FUNDING: TOTAL TO DATE \$473,177

Research Grants: \$238,492

2016	Office of Naval Research: Respiratory Acoustics To Estimate energy (RATE) Co-PIs: Madsen and van der Hoop	\$58,894
2015	Herrington-Fitch Family Foundation: Effects of Drag from Right Whale Entanglement in Fishing Gear Co-PIs: Moore and van der Hoop	\$39,610
2014	Cooperative Institute for the North Atlantic Region (CINAR): Effects of Drag from Entanglement in Fishing Gear in Right Whales Co-PIs: Moore and van der Hoop	\$51,246
2013	Herrington-Fitch Family Foundation: Effects of Drag from Right Whale Entanglement in Fishing Gear Co-PIs: Moore and van der Hoop	\$54,000
2013	Worthington Foundation: Effects of Drag from Right Whale Entanglement in Fishing Gear Co-PIs: Moore and van der Hoop	\$8,000
2012	WHOI Marine Mammal Center: Estimating drag forces and energetics of free-swimming entangled whales PIs: Thorrold (co-PI), van der Hoop (co-PI), Miller, Grosenbaugh	\$25,477
2012	WHOI Coastal Oceans Institute: Potential chemical cues released from whale tissue PI: van der Hoop	\$1,265

Fellowships: \$220,845+

2016	Marie Skłodowska-Curie Actions Individual Fellowship, European Commission	
2014	Stanley W. Watson Fellowship, University of Washington	\$12,745
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: \$13,840

2015	MIT Student Assistance Fund \$1000, WHOI Travel Grant \$750, MIT Graduate Student Council Travel grant \$550, WHOI Biology Department \$500	
2015	Ruth and Paul Fye Award for Excellence in Interdisciplinary Research	\$600
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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HONORS AND AWARDS

- 2017 F. G. Wood Award, Society of Marine Mammalogy. Best Student Paper in Marine Mammal Science
 - 2015 Endangered Species Print Project Student Presenter Award, North Atlantic Right Whale Consortium Annual Meeting
 - 2015 MIT Graduate Woman of Excellence
 - 2015 Ruth and Paul Fye Award for Excellence - Interdisciplinary (Woods Hole Oceanographic Institution)
 - 2014 Woods Hole Oceanographic Institution Stanley W. Watson Fellowship
 - 2014 MIT Martin Family for Sustainability Fellowship
 - 2013 University of Washington Wainwright Fellowship
 - 2013 NSERC Post Graduate Scholarship (Doctoral Level)
 - 2013 Endangered Species Print Project Student Presenter Award, North Atlantic Right Whale Consortium Annual Meeting
 - 2011 NSERC Alexander Graham Bell Post Graduate Scholarship (Masters Level)
 - 2011 Woods Hole Oceanographic Institution Von Damm Fellowship (Pioneering Female Oceanographer)
 - 2011 Coastal Oceans Institute Student Fellowship
 - 2011 Honourable Mention, Poster Session Awards, American Cetacean Society International Conference, Monterey, CA, U.S.A.
- Dalhousie University, Halifax Nova Scotia, Canada*
- 2010 Constance I. MacFarlane Scholarship - Top Marine Biology Student
 - 2009 David Durward Memorial Prize - Outstanding Achievement in Animal Physiology
 - 2009 In-Course Scholarships - Exceptional University- and course-level achievement
 - 2006 Entrance Scholarship - Based on admission GPA

INVITED SEMINARS

- 2017 University of St. Andrews Sea Mammal Research Unit (SMRU) and Centre for Research into Ecological and Environmental Modelling (CREEM)** 6 Dec 2017
- 2017 North Atlantic Right Whale Consortium Meeting.** Assessing speed reductions: Efficacy, data gaps and opportunities. 22 Oct 2017
- 2017 University of Washington School of Aquatic and Fisheries Sciences.** Seeing below the surface: Using bio-logging tags to study animal movement and physiology. Seattle, WA. 28 March 2017.
- 2016 North Atlantic Right Whale Consortium Meeting.** Is the vessel-strike problem solved? New Bedford, MA, U.S.A. 2 Nov 2016
- 2014 University of British Columbia Fisheries Center Seminar.** Kinematic, energetic and behavioural effects of drag in cetaceans. Vancouver, BC. 20 June 2014

INVITED WORKSHOPS

- 2017 International Whaling Commission and Office of Naval Research** Workshop on Cetacean Tag Development and Best Practices, Washington, D.C., USA
- 2016 International Whaling Commission** Meeting on Non-Killing Welfare Threats to Cetaceans, Kruger Park South Africa.
- 2015 International Whaling Commission** Third Meeting on Large Whale Entanglement Issues, Provincetown, MA, USA.
- 2014 Kjell Johansen Memorial Symposium:** Diving Physiology, Aarhus University, Denmark.
- 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.

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- 2012 Criteria and Case Definitions for Human Originated Cause of Death**, Proximate or Contributing Cause of Death: Vessel, Fishing and Gunshot Trauma in Stranded Cetaceans and Pinnipeds. Woods Hole Oceanographic Institution/NOAA. Woods Hole, MA, USA.
- 2011 International Whaling Commission** Second Workshop on Welfare Issues Associated with the Entanglement of Large Whales, IWC/63/WKM&AWI. Provincetown, MA, USA.
- 2011 Consortium for Wildlife Bycatch Reduction and New England Aquarium** Dynamics of Large Whale Entanglements in Fishing Gear. Woods Hole, MA, USA.

PRESENTATIONS

- van der Hoop, J.M.***; M. Johnson, N. Aguilar de Soto, F. Jensen, L. Rojano Doñate, D. Wisniewska, P.T. Madsen. Ventilation rates in free-swimming odontocetes as a measure of field metabolic scaling. 22nd Biennial Conference on the Biology of Marine Mammals, 22-27 Oct 2017. (International; Oral).
- Henry, A.*, D. Mattila, S. Barco, T. Cole, A. Johnson, A. Knowlton, S. Landry, M. Moore, J. Robbins, **J. van der Hoop**, R. Asmutis-Silvia. Don't assume it's all trash: accurate gear type characterization is critical for entanglement mitigation. 22nd Biennial Conference on the Biology of Marine Mammals, 22-27 Oct 2017 (International; Poster)
- van der Hoop, J.M.***; M. Johnson, N. Aguilar de Soto, F. Jensen, L. Rojano Doñate, D. Wisniewska, P.T. Madsen. Ventilation rates in free-swimming odontocetes as a measure of field metabolic scaling. 6th Bio-Logging Science Symposium, 25-29 Sept 2017. (International; Oral).
- van der Hoop, J.M.***; P. Corkeron, M.J. Moore. Entanglement is a costly life-history stage in large whales. European Cetacean Society Meeting, Middelfart, DK. 2 May 2017 (International; Oral).
- van der Hoop, J.M.***; P. Corkeron, A.G. Henry, A.R. Knowlton, M.J. Moore. Predicting Lethal Entanglements as a Consequence of Drag from Fishing Gear. North Atlantic Right Whale Consortium Meeting, New Bedford, MA, U.S.A. 2 Nov 2016 (International; Oral).
- Shorter, K.A.*, L. Ojeda, V. Petrov, J. Rocho-Levine, **J. van der Hoop**, M. Johnson, M.J. Moore. Improved modeling, sensing and analysis of marine mammal swimming kinetics and kinematics. 40th Annual Meeting of the American Society of Biomechanics. Raleigh, NC, USA. 2-5 August 2016.
- van der Hoop, J.M.***, A. Fahlman, K.A. Shorter, J. Rocho-Levine, M. Brodsky, T. Hurst, M.J. Moore. Metabolic effects of drag on instrumented bottlenose dolphins. 21st Biennial Conference on the Biology of Marine Mammals. San Francisco, CA, USA. 14-18 December 2015. (International; Oral)
- Shorter, K.A.*, L. Ojeda, J. Rocho-Levine, **J.M. van der Hoop**, M. Johnson, M.J. Moore. Estimating the per-stroke work of a bottlenose dolphin (*Tursiops truncatus*) during a continuous swimming task. 21st Biennial Conference on the Biology of Marine Mammals. San Francisco, CA, USA. 14-18 December 2015. (International; Oral)
- van der Hoop, J.M.***, P. Corkeron, M. Moore. Energetic impacts of entanglement in North Atlantic right whales. North Atlantic Right Whale Consortium Meeting, New Bedford, MA, U.S.A. 4 Nov 2015 (International; Oral).
- van der Hoop, J.M.** Integrating Animal Sensing Systems. NSF Data Science Workshop. University of Washington. Seattle, WA, USA. 5-7 Aug 2015 (National; Oral and Poster).
- van der Hoop, J.M.** Entanglement in North Atlantic right whales: sublethal impacts on drag, movement, and energetic cost. Woods Hole, MA, USA. 30 July 2015. (Departmental, Oral).
- van der Hoop, J.M.***, P. Corkeron, J. Kenney, S. Landry, D. Morin, J. Smith, M.J. Moore. Drag from fishing gear entangling North Atlantic right whales. International Whaling Commission Third Meeting on Large Whale Entanglement Issues. Provincetown, MA. 21-23 Apr 2015 (International; Oral).

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- Brodsky, M.*, S. Loring, M. Piscitelli, **J.M. van der Hoop**, et al [15 authors] Pulmonary function testing in cetaceans: What can we do with it? International Association for Aquatic Animal Medicine Meeting, Chicago, IL. 6-10 Apr 2015 (International; Oral).
- 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. 4 Nov 2014 (International; Oral).
- S. Emmert*, **J.M. van der Hoop**, Y. Bernaldo de Quiros, A. Fahlman, R. Wells, J. Rocho-Levine, M. Brodsky, M.J. Moore. Characterizing bottlenose dolphin (*Tursiops truncatus*) breath sounds. American Cetacean Society. Newport Beach, CA. 7-9 Nov 2014 (National; Poster).
- 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. 20-22 October 2014. (International; Poster).
- Shorter, K.A.*, F. Giovanni, L.E. Howle, M. Bowers, D. Nowacek, T. Hurst, M. Johnson, M.M. Murray, L. Ojeda, J. Rocho-Levine, **J. van der Hoop**, R.S. Wells, M.J. Moore 2014. Improving attachments of non-invasive (type III) electronic data loggers to cetaceans. Office of Naval Research Program Review. Washington, D.C. 20-22 October 2014. (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. 22-26 Sept 2014 (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. 18-19 Sept 2014 (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)

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- 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)
- 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).

TEACHING AND MENTORSHIP EXPERIENCE

2017 - 2022	Graduate Faculty Term Membership , Duke University as member of Doctoral Thesis Committee of Chen-Yi Wu
2014	Kaufman Teaching Certificate in Graduate Student Education , Massachusetts Institute of Technology
July 2014, 2015, 2016	Invited lecturer , Sea Education Association high school summer program (SEAScape)
Summer 2014	Co-Advisor for WHOI Summer Student Fellow (NSF REU Program)
January 2013	Lecturer , WHOI Winter Semester
August 2010	Teaching Assistant , BIOL 3626 Field Studies of Marine Mammals Instructors: D. Austin, D. Lidgard; Dalhousie University
Winter 2010	Teaching Assistant , BIOL 4060 Marine Mammalogy Instructors: D. Austin, T. Wimmer; Dalhousie University
Fall 2009	Teaching Assistant , BIOL 2003 Diversity of Animals Instructors: T. Romanuk, A. Pinder, J. Frail-Gauthier; Dalhousie University
August 2009	Teaching Assistant , BIOL 3626 Field Studies of Marine Mammals Instructors: D. Austin, D. Lidgard; Dalhousie University
Fall 2008	Teaching Assistant , BIOL 2003 Diversity of Plants and Animals Instructors: A. Gunawardena, T. Romanuk, J. Frail-Gauthier; Dalhousie University

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TRAINING AND SPECIAL SKILLS

- Inertial Sensing:** Analysis of On-Animal Movement Data, 1-5 Oct 2017, Mark Johnson, SMRU
- AniMove:** Course on Animal Movement and Remote Sensing in Ecology and Conservation, 27 Aug – 5 Sept 2017, Max-Planck Institute of Ornithology
- Software Carpentry:** Basic concepts and tools in scientific computing, including program design, version control, data management, and task automation 3-4 Sept 2015, 13 Oct 2017.
- Computation and Software:** MATLAB, R, Github, QGIS, Tracker, ArcGIS, LabChart
- Marine mammal necropsy:** grey, harp, hooded seals; bottlenose, common, Atlantic white-sided dolphins; harbor porpoises; pilot, pygmy sperm, humpback, Minke, North Atlantic right whales.
- Spoken Languages:** Fluency in French and English; Conversational Japanese; Introductory Danish

RESEARCH EXPEDITIONS: LEADER

- 2017 Dolphin Quest, Honolulu, HI: Tagging and metabolic physiology of bottlenose dolphins, 21 days.
- 2017 Chicago Zoological Society, Sarasota, FL: Tagging, metabolic physiology and health of wild bottlenose dolphins, 6 days.
- 2015 Chicago Zoological Society, Sarasota, FL: Tagging, metabolic physiology and health of wild bottlenose dolphins, 13 days.
- 2014 Chicago Zoological Society, Sarasota, FL: Tagging, metabolic physiology and health of wild bottlenose dolphins, 6 days.
- 2013 Dolphin Quest, Honolulu, HI: Tagging and metabolic physiology of bottlenose dolphins, 30 days.
- 2012 RV Tioga, Buzzards Bay, MA: Measuring drag on fishing gear from entangled whales, 1 day.

RESEARCH EXPEDITIONS: PARTICIPANT

- 2015 Duke University, Jacksonville, FL. Chief Scientist: Doug Nowacek. Tagging North Atlantic right whales, 7 days.
- 2013 WHOI, Kaikoura, NZ. Chief Scientist: Michael Moore. Tagging and body condition of sperm whales. 21 days.
- 2012 WHOI-CIRCE, Tarifa, Spain. Chief Scientists: Frants Jensen, Phillippe Verborgh. Simultaneous tagging of long-finned pilot whales, 30 days.
- 2012 Mingan Island Cetacean Study, Mingan Island, QC. Chief Scientist: René Swift, University of St. Andrews. Tagging fin and humpback whales with simultaneous echosounder, 30 days.
- 2012 RV Delaware II, NOAA, Great South Channel. Chief Scientist: Peter Duley. Right whale photo ID and biopsy survey, 11 days.
- 2011 RV Corwith Cramer, Sea Education Association. Oceanographic and plastics sampling, 10 days.
- 2010 RV Endeavor, George's Bank. Chief Scientist: Gareth Lawson. Trophic interactions and prey field mapping, 10 days.

OTHER RESEARCH EXPERIENCE

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

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MEMBERSHIP OF SCIENTIFIC SOCIETIES

Society for Women in Marine Science, American Association for the Advancement of Science, Society for Marine Mammalogy, The Oceanography Society

PEER REVIEW

Review Editor for *Frontiers in Physiology*

Reviewer for *Conservation Letters*, *Conservation Physiology*, *Environmental Conservation*, *Marine Environmental Research*, *PLoS ONE*, *Endangered Species Research*, *Marine Mammal Science*, *Regional Studies in Marine Science*, *Physiology & Behaviour*, *Diseases of Aquatic Organisms*, *American Naturalist*

SYNERGISTIC AND SERVICE ACTIVITIES

2017 – Present	Junior Researcher Association, Aarhus University
2016 – 2018	Elected Member, North Atlantic Right Whale Consortium Board
2016 – 2017	Scientific Planning Committee, Marine Mammal Society 2017 Biennial Meeting
2015 – 2017	WHOI Gender and Climate Survey Committee
2013 – Fall 2014	President and Biology Representative, MIT-WHOI Joint Program Student Group
2012 – 2016	Elected Student Representative, North Atlantic Right Whale Consortium Board
2012 – 2017	Member, Broader Impacts Group, an MIT and WHOI Student Group
2011 – 2017	Student Representative, WHOI Sustainability Committee
2011 – 2017	Racing Member, and Club Officer and Captain, MIT Cycling
2010 – 2017	Volunteer, International Fund for Animal Welfare (IFAW)
2010 – 2017	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, <i>Journal of Undergraduate Science (JUST@Dal)</i> , Dalhousie University
2006 – 2010	Captain and Co-President, Dalhousie Field Hockey
2006 – 2010	Member (Exec. 2009-2010), Dalhousie Association of Marine Biology Students

SELECTED INTERNATIONAL MEDIA OUTREACH

Scientific social media engagement via twitter (@jvanderhoop, 700 followers)

Science: The North Atlantic right whale faces extinction, 7 Nov 2017

Science News for Students: What a drag! Fishing gear's effects on whales, 13 Jan 2016

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