

Alejandro Daniel Buren, PhD

Research Scientist
Fisheries and Oceans Canada
Northwest Atlantic Fisheries Centre

PERSONAL INFORMATION

Citizenship	Canadian & Argentinean
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ResearchGate	https://www.researchgate.net/profile/Alejandro_Buren

EDUCATION

Doctor of Philosophy. 2015

Memorial University

Cognitive and Behavioural Ecology

Supervisor: William Montevecchi, Co-Supervisor: Mariano Koen-Alonso.

Thesis title: "The roles of capelin, climate, harp seals and fisheries in the failure of 2J3KL (northern) cod to recover"

Master of Sciences. 2007

Memorial University

Cognitive and Behavioural Ecology

Supervisor: William Montevecchi, Co-Supervisor: Mariano Koen-Alonso.

Thesis title: 'Modeling the link between prey availability and diet: common murre and capelin interaction during the breeding season'.

Licentiate in biological sciences. 2004

Universidad Nacional de la Patagonia San Juan Bosco. (University of Patagonia)

Supervisor: Enrique Crespo, Co-Supervisor: Mariano Koen-Alonso.

Thesis title: 'Diet of the beaked skate, *Dipturus chilensis*, off Patagonia during 2000-2001'

LANGUAGES

Advanced:

English

Spanish (native language)

Beginner:

French

PROFESSIONAL EXPERIENCE

Research scientist, Fisheries and Oceans Canada. 2016-present

Acting Section Head, Fisheries and Oceans Canada. 2013-2018

Acted as Section Head of the Marine Mammals Section (NL Region) on a regular basis when the incumbent was away

Aquatic sciences biologist, Fisheries and Oceans Canada. 2013-2016

Primary instructor, Memorial University, Biology Department. 2012

Quantitative Methods in Biology. Graduate/undergraduate course.

R workshops facilitator, Fisheries and Oceans Canada. 2012

Facilitate a series of introductory workshops to statistical language R.

Data analyst, Fisheries and Oceans Canada. 2012

Contract to assess the effects of sampling reduction in the length distribution of selected species in the spring and fall multi-species surveys.

Biologist, harp seal survey, Fisheries and Oceans Canada, Marine Mammal Section. 2012

Biologist during the harp seal survey off southern Labrador and northeast Newfoundland.

Database designer and developer, Fisheries and Oceans Canada, Marine Mammal Section.

2007, 2008, 2009, 2011

Contracts to design, develop and populate the marine mammals relational database for the Newfoundland and Québec Regions.

Database designer and developer, Memorial University. 2007

Contract to design and develop relational database for a seabird research long term database.

Skipper of scientific platform, Centro Nacional Patagónico (CENPAT), Argentina. 2003-2004

Skipper of scientific platform dedicated to the study of small cetacean behavior and sample collection in the envelope of the Consultancy "Base line study and monitoring plan for marine mammals of the future National Park Monte León". Argentinean National Parks Administration.

Marine mammals laboratory member, Centro Nacional Patagónico (CENPAT), Argentina.

2001-2004

Note: The CENPAT is a Research Institute which depends on the Argentinean National Research Council.

Teaching assistant

Memorial University, Biology Department

2009:

Principles of Biology

Biology for Earth Sciences

2006:

Principles of Biology

Biology of Vertebrates

2005:

Principles of Ecology

Principles of Biology

Biology of Vertebrates

University of Patagonia, Faculty of Natural Sciences

2004:

Population Ecology. Joint graduate/undergraduate course

Mathematics I

2003:

Population Ecology. Joint graduate/undergraduate course

Mathematics I

2000:

Genetics and Evolution

RESEARCH EXPERIENCE

Minimum realistic models of the Barents Sea and the Newfoundland and Labrador Shelf. 2018-2020

CoArc: A transatlantic innovation arena for sustainable development in the Arctic
Principal Investigators: Dr Ulf Lindstrøm, Dr Mariano Koen-Alonso

Ecophysiological responses of phocids to nutritional stress. 2018-2020

Fisheries and Oceans Canada and University of Pretoria (South Africa)
Investigators: Nico Lübcker, Dr. Alejandro Buren, Dr Nico de Bruyn, Dr Garry Stenson

Marine Mammal Expert Network. 2017-2020

Circumpolar Biodiversity Monitoring Program
Conservation of Arctic Flora and Fauna
Arctic Council

Natural Environment Research Council's Arctic Office (UK). 2018-2019

UK-Canada Bursaries Programme
A Canary in a Cage: harp seals as indicators of climate change impacts in the Arctic
Principal investigator: Dr James Grecian

Arctic Science Fund. 2017-2019

Fisheries and Oceans Canada
Impacts of climate change on ringed seal growth and condition
Principal Investigators: Dr Garry Stenson, Dr Alejandro Buren

Strategic Program for Ecosystem-Based Research and Advice. 2017-2020

Fisheries and Oceans Canada
A predictive model of the environmental regulation of capelin
Principal Investigators: Dr. Alejandro Buren, Dr. Paul Regular

Fisheries Science and Ecosystem Research Program. 2017-2019

Fisheries and Oceans Canada
Principal Investigators: Dr. Pierre Pepin, Dr. Alejandro Buren; Dr. Mariano Koen-Alonso, Fran Mowbray, Dr. Paul Regular, Dr. Garry Stenson

Natural Environment Research Council (UK). 2016-2018

Can we detect changes in Arctic ecosystems?
Principal Investigators: Dr. C. Mahaffey, Dr. A. Tagliabue, Dr. R. Jeffreys, Prof. G. Wolff, Dr. A. Heath, Prof. R. Ganeshram, Dr. S. Smout, Dr. A. Yool, Dr. J. Hopkins, Dr. B. VanDongen, Dr. R. Stern
<https://arcticarise.wordpress.com/>

Strategic Initiatives. 2018-2019

Fisheries and Oceans Canada
Follow up on variability in energy contents of key forage species in the NW Atlantic: evidence for changes in ocean productivity? Principal Investigators: Dr. Garry Stenson, Dr. Alejandro Buren

Center of Expertise in Marine Mammalogy. 2017

Fisheries and Oceans Canada
Implementation of automated software for detection and counting of harp and hooded seals
Principal Investigator: Dr. Garry Stenson

Center of Expertise in Marine Mammalogy. 2017

Fisheries and Oceans Canada
New efforts to monitor marine mammal bycatch in Atlantic Canada
Principal Investigator: Dr. Jack Lawson

Strategic Initiatives. 2016-2017

Fisheries and Oceans Canada

Variability in energy contents of key forage species in the NW Atlantic: evidence for changes in ocean productivity?

Principal Investigators: Dr. Garry Stenson, Dr. Alejandro Buren

Strategic Program for Ecosystem-Based Research and Advice. 2017-2018

Fisheries and Oceans Canada

Influence of plankton and environment on biomass and condition of capelin

Principal Investigator: Dr. César Fuentes-Yaco

Strategic Program for Ecosystem-Based Research and Advice. 2016-2020

Fisheries and Oceans Canada

Spatial and temporal overlap of cetacean habitat, cumulative noise, and protected areas in the Northwest Atlantic Ocean

Principal Investigator: Dr. Hillary Moors-Murphy

Laurentian Channel Marine Protected Area Monitoring. 2014-2015

Fisheries and Oceans Canada

Principal Investigator: Dr. Jack Lawson

Environmental Studies Research Fund. 2013-2014

Fisheries and Oceans Canada

Mid-Labrador marine megafauna and acoustic survey

Principal Investigator: Dr. Jack Lawson

<http://www.esrfunds.org/home>

Ecosystem Research Initiative, ERI-NEREUS Program. 2007-2012

Fisheries and Oceans Canada

Ecosystem Research Initiative (ERI) for Newfoundland Region

Principal Investigator: Dr. Mariano Koen-Alonso

<http://www.dfo-mpo.gc.ca/science/publications/article/2014/03-31-14-eng.html>

Species at Risk Program. 2006-2008

Fisheries and Oceans Canada

Estimating predation on Atlantic Cod by Seals off Newfoundland and in the northern Gulf of St. Lawrence

Principal Investigator: Dr. Garry Stenson

International Polar Year. 2007-2008

Memorial University

How seabirds can help detect ecosystem change in the Arctic

Principal Investigator: Dr. William Montevecchi

<https://www.ec.gc.ca/api-ipy/default.asp?lang=En&n=7141EC8F-1>

Natural Science And Engineering Research Council Strategic Project. 2005-2007

Memorial University

Importance of capelin (*Mallotus villosus*) biology in sustaining trophic interactions in the Northwest Atlantic.

Principal Investigator: Dr. William Montevecchi.

Agencia Nacional De Promoción Científica y Tecnológica. 2004-2006

(Argentinean National Agency for the Promotion of Science and Technology)

University of Patagonia

Dynamics of the groups of dolphins affected by human activities and their inclusion in a marine protected areas management framework

Principal Investigator: Dr. Enrique Alberto Crespo

Base line and monitoring study of marine mammals in National Park. 2003-2004

Marine Mammals Laboratory, CENPAT

Member of the Working Team of the Consultancy: Base line study and monitoring plan for marine mammals of the future National Park Monte León

Principal Investigator: Dr. Enrique Alberto Crespo

University of Patagonia. 2002-2004

Interactions between marine top predators and human activities in Patagonia

Principal Investigator: Dr. Enrique Alberto Crespo

Agencia Nacional De Promoción Científica y Tecnológica. 2000-2002

(Argentinean National Agency for the Promotion of Science and Technology)

University of Patagonia

Interactions between Fisheries and marine mammals in the Patagonian-Fueguinian coast

Principal Investigator: Dr. Enrique Alberto Crespo

PUBLICATIONS

Primary Publications

J. Morgan, M. Koen-Alonso, R. Rideout, A.D. Buren & D. Maddock Parsons. 2017. Growth and condition in relation to the lack of recovery of northern cod. ICES Journal of Marine Sciences 75: 631-641. DOI: 10.1093/icesjms/fsx166

C. Gomez, J. Lawson, A-L Kouwenberg, H. Moors-Murphy, A.D. Buren, C. Fuentes-Yaco, E. Marotte, Y. Wiersma & T. Wimmer. 2017. Predicted distribution of whales at risk: identifying priority areas to enhance cetacean monitoring in the Northwest Atlantic Ocean. Endangered Species Research 32: 437-458. DOI: 10.3354/esr00823

E. Perry, G.B. Stenson & A.D. Buren. 2017. Attendance and nursing patterns of harp seals in the harsh environment of the northwest Atlantic. Polar Biology 40: 151-160. DOI: 10.1007/s00300-016-1938-6

C. Gomez, J. Lawson, A. Wright, A.D. Buren, D. Tollit & V. Lesage. 2016. A systematic review on the behavioural responses of wild marine mammals to noise: the disparity between science and policy. Canadian Journal of Zoology 94: 801-819. DOI: 10.1139/cjz-2016-0098

G.B. Stenson, A.D. Buren & M. Koen-Alonso. 2016. The impact of changing climate and abundance on reproduction in an ice-dependent species, the Northwest Atlantic harp seal, *Pagophilus groenlandicus*. ICES Journal of Marine Science: Journal du Conseil 73: 250-262.

A.D. Buren, M. Koen-Alonso & G.B Stenson. 2014. The role of harp seals, fisheries and food availability in driving the dynamics of northern cod. Marine Ecology Progress Series 511: 265-284.

A.D. Buren, M. Koen-Alonso, P. Pepin, F. Mowbray, B. Nakashima, G.B. Stenson, N. Ollerhead & W.A. Montevecchi. 2014. Bottom-up regulation of capelin, a keystone forage species. PLoS ONE 9(2): e87589. doi:10.1371/journal.pone.0087589

A.D. Buren, M. Koen-Alonso & W.A. Montevecchi. 2012. Predator diet and prey availability: common murre-capelin link in the Northwest Atlantic. Marine Ecology Progress Series 445: 25-35

KS Dwyer, A.D. Buren & M. Koen-Alonso. 2010. Greenland halibut diet in the Northwest Atlantic from 1978-2003 as an indicator of ecosystem change. Journal of Sea Research 64: 436-445.

L. McFarlane-Tranquilla, A. Hedd, C. Burke, W.A. Montevecchi, P.M. Regular, G.J. Robertson, L.A. Stapleton, S. Wilhelm, D.A. Fifield & A.D. Buren. 2010. High Arctic sea ice conditions

influence marine birds wintering in Low Arctic regions. *Estuarine, Coastal and Shelf Science*, 89: 97-106.

A. Hedd, D.A. Fifield, C. Burke, W.A. Montevecchi, L. McFarlane-Tranquilla, P.M. Regular, A.D. Buren & G.J. Robertson. 2010. Seasonal shifts in the foraging niche of puffins *Fratercula arctica* revealed by stable isotope ($\delta^{15}\text{N}$ and $\delta^{13}\text{C}$) analyses. *Aquatic Biology* 9: 13-22.

W.A. Montevecchi, L. McFarlane-Tranquilla, A.D. Buren, C. Burke, D.A. Fifield, A. Hedd, P.M. Regular & P.A. Smith. 2009. Effects of Geolocators in Studies of Avian Movement Ecology. *Science E-letter* https://www.researchgate.net/publication/237628059_Effects_of_Geolocators_in_Studies_of_Avian_Movement_Ecology

A. Hedd., P.M.Regular, W.A.Montevecchi, A.D.Buren, C.Burke & D.A.Fifield. 2009. Going deep: common murrens dive into frigid water for aggregated, persistent and slow-moving capelin. *Marine Biology*, 156: 741-751.

G. K. Davoren,, C. May, P. Penton, B. Reinfort, A.D. Buren, C. Burke, D. Andrews, W. A. Montevecchi, N. Record, B. deYoung, C. Rose-Taylor, T. Bell, J.T. Anderson, M. Koen-Alonso & S. Garthe. 2008. An ecosystem-based research program for capelin (*Mallotus villosus*) in the Northwest Atlantic: overview and results. *Journal of Northwest Atlantic Fishery Science*, 39: 35-48.

M.F. Grandi, A.D. Buren, E.A. Crespo, N.A. García, G.M. Svendsen & S.L. Dans. 2006. Record of a specimen of Shepherd's beaked whale (*Tasmacetus shepherdi*) from the coast of Santa Cruz, Argentina, with notes on age determination. *Latin American Journal of Aquatic Mammals*, 4(2): 97-100.

In review

K.E. Lewis, A.D. Buren, P.M. Regular, F.K. Mowbray, H.M. Murphy. Predicting capelin (*Mallotus villosus*) biomass on the Newfoundland shelf. Submitted on July 2018 to *Marine Ecology Progress Series*.

In preparation

A.D. Buren, H.M. Murphy, A.T. Adamack, G.K. Davoren, M. Koen-Alonso, W.A. Montevecchi, F.K. Mowbray, P. Pepin, P.M. Regular, D. Robert, G.A. Rose, G.B. Stenson, D. Varkey. The collapse of a keystone forage species. To be submitted on August 2018 to *Marine Ecology Progress Series*.

WA Montevecchi, K. Gerrow, A.D. Buren, G.K. Davoren, K.E. Lewis, M.W. Montevecchi, P.M. Regular. Pursuit-diving seabird buffers regime shift involving a three decadal decline of forage fish abundance and condition. To be submitted on October 2018 to *PLoS ONE*

A.D. Buren, G.B. Stenson. Comparative diet analyses of four sympatric seal species, in waters off Newfoundland and Labrador Canada. To be submitted on December 2018 to *Marine Mammal Science*.

Secondary Publications

G.B. Stenson, D. Wakeham, A.D. Buren & M. Koen-Alonso. Density Dependent and Density Independent Factors Influencing Reproductive Rates in Northwest Atlantic Harp Seals, *Pagophilus groenlandicus*. Canadian Science Advisory Secretariat Research Document 2014/058.

A.D. Buren. 2012. Should we hunt seals to rebuild depleted fish stocks? *The Osprey*, 43(2): 40-43.

- G.B. Stenson, M. Koen-Alonso & A.D. Buren. 2009. Recent Advances on the Role of Seals in the Northwest Atlantic Ecosystem. NAFO Scientific Council Research Document 09/40.
- A.D. Buren, M. Koen-Alonso, W.A. Montevecchi, J.T. Anderson, B. deYoung & G.K. Davoren. 2006. Modeling trophic interactions between parental common murrelets and capelin off the northeast Newfoundland coast. ICES CM 2006 / L:05.
- A.D. Buren. 2006. Seabird conservation: shifting the focus toward ecosystems. *The Osprey*, 37(3): 75-77.

INVITED SPEAKER

- A.D. Buren, M. Koen-Alonso, F. Mowbray, B. Nakashima, G.B. Stenson, P. Pepin, N. Ollerhead, W.A. Montevecchi. 2012. Environmental regulation of capelin in the Northwest Atlantic. Northwest Atlantic Fisheries Organization Scientific Council and its Standing Committees Meeting. June 4. Dartmouth, NS, Canada.
- A.D. Buren, M. Koen-Alonso, F. Mowbray, B. Nakashima, G.B. Stenson, P. Pepin, N. Ollerhead, W.A. Montevecchi. 2012. Environmental regulation of capelin in the Northwest Atlantic. Identifying indicators for monitoring Arctic marine biodiversity in Canada. National Advisory Process (NAP). February 6-8, 2012. Winnipeg, MB, Canada

LECTURES, SEMINARS AND WORKSHOPS

Co-Lead and Coordinator of the R Technical Working Group for an Ecosystem Approach, NL Region. Fisheries and Oceans Canada. Fall 2017.

Guest lecturer for the course "Fisheries Ecology".
Fisheries and Marine Institute of Memorial University of Newfoundland. February 2017.
This lecture was intended for an undergraduate audience.

Science advice in the context of a complex and changing ocean ecosystem. Northwest Atlantic Fisheries Center, Fisheries and Oceans. May 2016.
This seminar was intended for a scientific audience

Guest lecturer for the course "Fisheries Ecology".
Fisheries and Marine Institute of Memorial University of Newfoundland. February 2016.
This lecture was intended for an undergraduate audience.

Guest lecturer for the course "Fisheries Ecology".
Fisheries and Marine Institute of Memorial University of Newfoundland. October 2014.
This lecture was intended for an undergraduate audience.

From Physics to Cod: Bottom-Up Regulation of the Newfoundland-Labrador Shelf Ecosystem. Northwest Atlantic Fisheries Center, Fisheries and Oceans. May 2012.
This seminar was intended for a scientific audience

Introduction to R.
Introductory Workshop for Biology and Cognitive and Behavioural Ecology graduate students and faculty.
Memorial University, September 29, 2011. Facilitators: Alejandro Buren & Paul Regular.

Guest lecturer for the course "Field and Lab Methods in Behavioural Ecology".
Memorial University. March 26, 2010.
This lecture was intended for a graduate audience.

Introduction to R.
Introductory Workshop for Biology and Cognitive and Behavioural Ecology graduate students and faculty.

Memorial University, March 23, 2009. Facilitators: Alejandro Buren & Paul Regular.

Are harp seals impeding the recovery of the northern cod stock? An exploration of ideas.
Psychology Department Colloquium, Memorial University: November 25, 2009.
This seminar was intended for a scientific audience.

Guest lecturer for the course “Biology for Earth Sciences”.
Memorial University. November 13, 2009
This lecture was intended for an undergraduate audience.

PROFESSIONAL COMMITTEES

2015 - Present. National Marine Mammal Peer Review Committee
Fisheries and Oceans Canada

2018. EG 03/04/05 Recruiting Board Member
Fisheries and Oceans Canada, Newfoundland Region

2016 - 2018. Animal Care Committee
Fisheries and Oceans Canada, Newfoundland Region

AWARDS

2013. Dr Wilfred Templeman Memorial Scholarship
Memorial University

2012. Dr Wilfred Templeman Memorial Scholarship
Memorial University

2011. Society for Marine Mammalogy Travel Grant

2008. Albert George Hatcher Memorial Scholarship
Memorial University

2007. Fellow of the School of Graduate Studies
Memorial University

2007-2011. School of Graduate Studies Fellowship
Memorial University

2007-2011. School of Graduate Studies Merit Award
Memorial University

2006. University of British Columbia Travel Scholarship

2005-2006. School of Graduate Studies Fellowship
Memorial University

2005-2006. Scholarship for Graduate Studies
Organization of the American States (OAS)

2001-2003. Lodging Scholarship
University of Patagonia

2002-2003. Fellowship for Undergraduate Studies
Provincial Ministry of Education (Argentina)

SOFTWARE PROFICIENCY

R (programming language and software environment for statistical computing and graphics)

Fortran77 (programming language)

Microsoft Access (development and advanced use of relational databases)

WinBUGS, JAGS, Stan (Bayesian statistical inference)

ADMB, TMB (non-linear statistical modeling software)

L^AT_EX, (Document preparation system)

R Markdown (authoring framework for data science)

GitHub (Version Control Software)

SAS (data management and statistics software)

Statistica, MiniTAB (statistics software)

ArcMap, Surfer (GIS mapping tools)

REVIEWER FOR FOLLOWING JOURNALS

Ecology

Canadian Journal of Fisheries and Aquatic Sciences

Global Change Biology

Proceedings of the Royal Society B

Journal of Applied Ecology

Marine Ecology Progress Series

ICES Journal of Marine Sciences

Journal of Avian Biology

Waterbirds

MEMBERSHIPS IN PROFESSIONAL OR LEARNED SOCIETIES

2014-present. American Fisheries Society

2009-present. Society for Marine Mammalogy

2009-present. Inter-American Network of OAS Scholars
Organization of the American States

2010. Student Representative
Memorial University
Cognitive and Behavioural Ecology (CABE) Programme Chair Search Committee

2007. Statistical Society of Canada

2003-2004. Student Representative

University of Patagonia
Advisory Committee, Puerto Madryn Campus

2002. Student Representative
University of Patagonia
University residence

Notes: The Zonal Advisory Committee is the governing body of the Puerto Madryn Campus. Student representatives are elected by their peers.

ACADEMIC AND PROFESSIONAL DEVELOPMENT

2017. Time Series Models for Ecologists
Presented by Dr. Andrew Parnell (University College Dublin)
2017. Multivariate analysis of spatial ecological data using R
Presented by Dr. Subhash. Lele (University of Alberta)
2017. Unmanned Aerial Vehicles Operators Course
ING Robotics
2016. Aircraft Ditching Course Fixed Wing
Falck Safety Service Canada
2016. Chemical Immobilization of Wildlife
The Canadian Association of Zoo & Wildlife Veterinarians and the Canadian Wildlife Health Cooperative
2015. Introduction to Linear Mixed Effects Models, GLMM and MCMC with R
Presented by Dr. Alain Zuur and Dr Elena Ieno (Highland Statistics)
2015. Canadian Firearms Safety Course
College of the North Atlantic
2014. Online PBSmapping Course
Fisheries and Oceans Canada Presented by Dr. Rowan Haigh and Dr Denis Chabot
2010. Introduction to AD Model Builder
Northwest Atlantic Fisheries Centre, Fisheries and Oceans Canada
Presented by Dr. Anders Nielsen from DTU-aqua (Denmark)
2009. Sun Application Tuning Seminar Memorial University
Application Performance Optimization on Sun Systems. Sun Microsystems
2006. Introduction to Bayesian statistics and WinBugs
Memorial University and Fisheries and Oceans Canada
2005. Generalized Linear Models
Memorial University
Presented by Dr. D.C. Schneider from Memorial University, Canada.
2004. The use of statistics in ecology: a critical view
Centro Nacional Patagónico (CENPAT), Argentina
Presented by Dr. Victor Cueto and Dr. Javier Lopez de Casenave from the University of Buenos Aires, Argentina.

CONFERENCE & WORKSHOP PRESENTATIONS

Poster Presentations

- A.D. Buren, G.B. Stenson. 2017. Comparative diet analyses of four sympatric seal species, in waters off Newfoundland and Labrador Canada. 22nd Biennial Conference on the Biology of Marine Mammals. October 22-27 2017. Halifax, NS, Canada.
- G.B. Stenson, M. Koen Alonso, A.D. Buren & D. McKinnon. The diet of harp seals, *Pagophilus groenlandica*, in a changing environment. 17th Biennial Conference on the Biology of Marine Mammals. November 2007. Cape Town, South Africa.
- G.K. Davoren, P. Penton, C. May, B. Reinfort, N. Record, B. deYoung, C. Burke, W.A. Montevecchi, D. Andrews, A.D. Buren, M. Koen-Alonso, J.T. Anderson, C. Rose-Taylor, T. Bell, and S. Garthe. 2006. The Importance of capelin (*Mallotus villosus*) in the Northwest Atlantic. NAFO Symposium: Environmental and Ecosystem Histories in the Northwest Atlantic – What Influences Living Marine Resources? 13-15 September 2006. Dartmouth, Nova Scotia, Canada.
- G.K. Davoren, C. May, P. Penton, N. Record, B. deYoung, C.B. Burke, W.A. Montevecchi, A.D. Buren, D. Andrews, C. Rose-Taylor, T. Bell, M. Koen-Alonso & J.T. Anderson. 2005. Importance of capelin (*Mallotus villosus*) biology in sustaining trophic interactions in the Northwest Atlantic. Canadian Conference for Fisheries Research (CCFFR), January 2005, Windsor, Canada.
- M. F. Grandi, A.D. Buren, E.A. Crespo, N.A. García, G.M. Svendsen & S.L. Dans. New record of a complete specimen of the Shepherd's Beaked Whale, *Tasmacetus shepherdi*, in Argentina and comments on the age determination. 'XIX Jornadas Argentinas de Mastozoología' (19th Argentinean Conference of Mammalogy). Puerto Madryn, Argentina, November 2004.

Oral Presentations

- G.B. Stenson, A.D. Buren, C. Abraham. 2017. Declining growth rates and condition impact reproductive rates in Northwest Atlantic harp seals. 22nd Biennial Conference on the Biology of Marine Mammals. October 22-27 2017. Halifax, NS, Canada.
- C. Gomez, J. Lawson, A-L Kouwenberg, H. Moors-Murphy, A.D. Buren, C. Fuentes-Yaco, E. Marotte, A.S.M. Vanderlaan. 2016. Predicted distribution of right whales in eastern Canadian waters: identifying priority areas to enhance monitoring. North Atlantic Right Whale Consortium Annual Meeting. November 2-3, 2016. New Bedford, USA.
- C. Gomez, J. Lawson, A. Wright, A.D. Buren, V. Lesage, D. Tollit. 2016. A systematic review and meta-analysis on the behavioural responses of wild marine mammals to man-made sounds: synthesis and recommendations for the future. 4th International Marine Conservation Congress. July 30 – August 30 2016. St John's, NL. Canada.
- A.D. Buren, M. Koen-Alonso, G.B. Stenson. 2015. Bioenergetics-allometric model: relative contributions of seals, fisheries and food availability on the lack of recovery and dynamics of the northern cod stock. 2015 Northern Cod Framework Meeting. Regional Peer Review. November 30 – December 4 2015. St John's, NL.
- C. Gomez, J. Lawson, A. Wright, A.D. Buren, V. Lesage, D. Tollit. 2015. Behavioural responses of marine mammals to anthropogenic sounds: an exploratory meta-analysis. 21st Biennial Conference on the Biology of Marine Mammals. December 13-18 2015. San Francisco, USA.
- G.B. Stenson, A.D. Buren, M.O. Hammill and M. Koen-Alonso. 2015. Control of reproduction in Northwest Atlantic harp seals and the impact of climate change. 21st Biennial Conference on the Biology of Marine Mammals. December 13-18 2015. San Francisco, USA.

- G.B. Stenson, A.D. Buren, M.O. Hammill and M. Koen-Alonso. The impact of climate change on reproduction and population dynamics of Northwest Atlantic harp seals, *Pagophilus groenlandicus*. Arctic Frontiers. Climate and Energy. 18-23 January 2015. Tromsø, Norway.
- G.B. Stenson, A.D. Buren and M. Koen-Alonso. The impact of changing climate on reproduction of northwest Atlantic harp seals, *Pagophilus groenlandicus*. ICES Annual Science Conference. 15-19 September 2014. A Coruña, Spain.
- W.A. Montevecchi, A.D. Buren, C.M. Burke, G.K. Davoren, S. Garthe, A. Hedde, L. MacFarlane Tranquilla, P.M. Regular, G.J. Robertson, S. Wilhelm. Ocean Climate Influences on Marine Birds in the Northwest Atlantic. ICES Annual Science Conference. 15-19 September 2014. A Coruña, Spain.
- A.D. Buren, M. Koen-Alonso & G.B Stenson. The role of harp seals, fisheries and food availability in driving the dynamics of northern cod in waters off Newfoundland, Canada. American Fisheries Society Annual Meeting. 17-21 August 2014. Québec City, QC, Canada.
- A.D. Buren, M. Koen-Alonso, P. Pepin, F. Mowbray, B. Nakashima, G.B. Stenson, N. Ollerhead & W.A. Montevecchi. Bottom-up regulation of capelin, a keystone forage species in the Northwest Atlantic. American Fisheries Society Annual Meeting. 17-21 August 2014. Québec City, QC, Canada.
- M.J. Morgan, R.M. Rideout. A.D. Buren, D Maddock Parsons & M. Koen-Alonso. 2013. Are low condition and growth possible contributors to the lack of recovery of Northern cod? ICES/NAFO Symposium. Gadoid Fisheries: The Ecology and Management of Rebuilding. 15-18 October 2013. St Andrew's, NB, Canada
- G.B. Stenson, M.O. Hammill, A.D. Buren. 2013. Direct and Indirect Impacts of Ice on Harp Seals in the Northwest Atlantic. Arctic Frontiers. Geopolitics and Marine Production in a Changing Arctic. 20-25 January 2013. Tromsø, Norway
- A.D. Buren, M. Koen-Alonso, G.B. Stenson. 2012. Drivers of northern cod trajectory: using a simple dynamic model as a tool for testing alternative competing hypotheses. Ecosystem Research Initiative (ERI) – NEREUS Program. Regional Advisory Process (RAP). January 17-19, 2012. St John's, NL, Canada
- A.D. Buren, M. Koen-Alonso, F. Mowbray, B. Nakashima, G.B. Stenson, P. Pepin, N. Ollerhead, W.A. Montevecchi. 2012. Environmental regulation of capelin. Ecosystem Research Initiative (ERI) – NEREUS Program. Regional Advisory Process (RAP). January 17-19, 2012. St John's, NL, Canada
- M. Koen-Alonso, F. Mowbray, P. Pepin, N. Wells, D. Holloway, B. Vaters, A.D. Buren, J. Morgan, B. Brodie. 2012. Changes in the structure of the marine fish community in Newfoundland and Labrador waters in the period 1980-2010. Ecosystem Research Initiative (ERI) – NEREUS Program. Regional Advisory Process (RAP). January 17-19, 2012. St John's, NL, Canada
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