

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

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**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?

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. Cesar 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
<http://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. 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. DOI: 10.3354/esr00823
- C. Gomez, J. Lawson, A. Wright, A.D. Buren, D. Tollit & V. Lesage. A systematic review on the behavioural responses of wild marine mammals to noise: the disparity between science and policy. Canadian Journal of Zoology. DOI: 10.1139/cjz-2016-0098
- E. Perry, G.B. Stenson & A.D. Buren. Attendance and nursing patterns of harp seals in the harsh environment of the northwest Atlantic. Polar Biology. DOI: 10.1007/s00300-016-1938-6
- 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. 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. 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 *Fraterecula 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. Mon-

tevecchi, 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. Garca, 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.

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 murres 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

CONFERENCE & WORKSHOP PRESENTATIONS

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. Bioenergeticsallometric 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. Hedd, 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

- A.D. Buren, M. Koen-Alonso, G.B. Stenson, F. Mowbray. 2011. Is competition with harp seals impeding the recovery of cod stocks off Newfoundland, Canada? 19th Biennial Conference on the Biology of Marine Mammals. 26 November - 2 December 2011. Tampa, FL, USA.
- A.D. Buren, M. Koen-Alonso, F. Mowbray, B. Nakashima, G.B. Stenson, P. Pepin, N. Ollerhead. 2011. Environmental regulation of capelin in the Northwest Atlantic. Regional Advisory Process (RAP) for Atlantic Cod in NAFO Subdivision 3Ps. October 25-28, 2011. St John's, NL, Canada
- A.D. Buren, M. Koen-Alonso, F. Mowbray, B. Nakashima, G.B. Stenson, P. Pepin, N. Ollerhead. 2011. Environmental regulation of capelin in the Northwest Atlantic. ICES Annual Science Conference. 19-23 September 2011. Gdansk, Poland.
- A.D. Buren, M. Koen-Alonso and G.B. Stenson. 2010. Ecosystem considerations for limit reference points and projections: exploring bottom-up and top-down drivers of northern cod. Newfoundland and Labrador Regional Atlantic Cod Framework Meeting: Reference Points and Projection Methods for Newfoundland cod stocks. November 22-26, 2010. St. Johns, NL, Canada
- W.A. Montevecchi, C. Burke, A.D. Buren, P. Regular, A. Hedd, G. Davoren. 2010. Seabird and capelin interactions. Regional Advisory Process (RAP) for Capelin (Subarea 2 + Div. 3KL). October 26-28, 2010. St. Johns, NL, Canada.
- W.A. Montevecchi, P Regular, A.D. Buren, C Burke, D Fifield, A Hedd, L McFarlane-Tranquilla, & E Wilson. 2010. The Eastern Canadian gill-net removal experiment: tracking the population responses of seabirds to the ground-fishery closure. 1st World Seabird Conference. Seabirds: Linking the Global Ocean. 7-11 September 2010. Victoria, BC, Canada.
- W.A. Montevecchi, A.D. Buren, C Burke, D Fifield, A Hedd, L McFarlane-Tranquilla, P Regular & E Wilson. 2010. The eastern Canadian gill-net removal experiment. Seabird population responses to the fishery closure. 24th International Congress for Conservation Biology. 3-7 July 2010. Edmonton, Alberta, Canada.
- M. Koen-Alonso, F. Mowbray, P. Pepin, J. Morgan, B. Brodie, B. Vaters, D. Holloway, A.D. Buren, K. Dwyer, G. Stenson and K. Gilkinson. 2010. Key aspects of the Newfoundland-Labrador Shelf Ecosystem (NAFO Divs. 2J3KLNO). Zonal Advisory Process on Northern and Striped Shrimp. March 24 - 26, 2010 St. Johns, NL, Canada
- A.D. Buren, M. Koen-Alonso & G.B. Stenson. 2010. Modelling bottom-up and top-down drivers of Northern cod dynamics: Update on ongoing work. Regional Advisory Process for 2J3KL Cod (Cod RAP 2010). March 15-19 2010, St. Johns, NL
- A.D. Buren, M. Koen-Alonso & G.B. Stenson. 2009. An exploration of the roles of seal predation, fisheries and food availability in the lack of recovery of Atlantic cod in the waters off Newfoundland, Canada. 18th Biennial Conference on the Biology of Marine Mammals. October 2009. Québec City, QC, Canada.
- G.B. Stenson, M. Koen-Alonso & A.D. Buren. 2009. Estimating diets and prey consumption by NW Atlantic harp seals in the waters of Newfoundland, Canada. 18th Biennial Conference on the Biology of Marine Mammals. October 2009. Québec City, QC, Canada.
- G.B. Stenson, M. Koen-Alonso, A.D. Buren & D. McKinnon. 2009. Estimating prey consumption by NW Atlantic harp seals in Newfoundland waters. NAMMCO SC Working Group on Marine Mammals and Fisheries Interactions. Iceland, 15-17 April 2009
- A.D. Buren, M. Koen-Alonso & G.B. Stenson. 2009. Interactions between Northern cod and harp seals: A preliminary exploration of the roles of seal predation, capelin availability and fisheries. Zonal Scientific Review of Atlantic Cod Stocks in Eastern Canada (Cod ZAP 2009). Feb 24-Mar 06 2009, St. Johns, NL

- M. Koen-Alonso & A.D. Buren. 2009. Maximum Sustainable Yield (MSY) in a multispecies context: Generalities and illustrative analyses for 2J3KL cod. Zonal Scientific Review of Atlantic Cod Stocks in Eastern Canada (Cod ZAP 2009). Feb 24-Mar 06 2009, St. Johns, NL
- M. Koen-Alonso, A.D. Buren & G.B. Stenson. 2008. A multinomial regression approach to reconstruct diet composition. Seals Impact Workshop 2: International workshop to review the impacts of seals on Atlantic cod stocks in eastern Canadian waters, hosted by Fisheries and Oceans Canada. November 2008. Halifax, Nova Scotia, Canada.
- A.D. Buren, M. Koen-Alonso, K. Dwyer & G.B. Stenson. 2008. Comparative analysis of the diet of cod, turbot and harp seal in Newfoundland waters (1986-1996). Seals Impact Workshop 2: International workshop to review the impacts of seals on Atlantic cod stocks in eastern Canadian waters, hosted by Fisheries and Oceans Canada. November 2008. Halifax, Nova Scotia, Canada.
- A.D. Buren, M. Koen-Alonso & G.B. Stenson. 2008. Exploring predation and competition impacts of harp seal on Northern cod. Modeling approach and preliminary runs. Seals Impact Workshop 2: International workshop to review the impacts of seals on Atlantic cod stocks in eastern Canadian waters, hosted by Fisheries and Oceans Canada. November 2008. Halifax, Nova Scotia, Canada.
- G.B. Stenson, M. Koen-Alonso, A.D. Buren & D. McKinnon. 2008. Estimating prey consumption by NW Atlantic harp seals in Newfoundland waters. Seals Impact Workshop 2: International workshop to review the impacts of seals on Atlantic cod stocks in eastern Canadian waters, hosted by Fisheries and Oceans Canada. November 2008. Halifax, Nova Scotia, Canada.
- A.D. Buren, M. Koen-Alonso & G.B. Stenson. 2008. Reconstructing diet composition using a multinomial regression approach. ICES/NAFO/NAMMCO Symposium on the Role of Marine Mammals in the Ecosystem in the 21st Century. Dartmouth, Nova Scotia, Canada. 29 September - 1 October.
- A.D. Buren, M. Koen-Alonso, KS Dwyer & G.B. Stenson. 2008. Is there room for competition among fish top predators and harp seals in the Northwest Atlantic (NAFO Div. 2J3KL)? ICES/NAFO/NAMMCO Symposium on the Role of Marine Mammals in the Ecosystem in the 21st Century. Dartmouth, Nova Scotia, Canada. 29 September - 1 October.
- G. B. Stenson, M. Koen-Alonso and A. D. Buren. 2008. Recent Advances on the Role of Seals in the Northwest Atlantic Ecosystem. ICES/NAFO/NAMMCO Symposium on the Role of Marine Mammals in the Ecosystem in the 21st Century. Dartmouth, Nova Scotia, Canada. 29 September - 1 October.
- KS Dwyer, A.D. Buren & M. Koen-Alonso. 2008. Diet of Greenland halibut in the Newfoundland Shelf, Northwest Atlantic, during 1978-2003: reflections of a changing ecosystem. 7th International Flatfish Symposium. Sesimbra, Portugal. 2-7 November.
- Hedd., P.M.Regular, W.A.Montevecchi, C.Burke, A.D.Buren & D.A.Fifield. 2008. Going deep: Common Murres dive in sub-0°C water for aggregated slow-moving capelin. Pacific Seabird Group Conference, Blaine, Washington, 27 February - 2 March
- C.M.Burke, W.A. Montevecchi, M. Koen-Alonso, P. Penton & A.D. Buren. 2008. Flexible foraging by murres in the face of changing capelin availability. Pacific Seabird Group Conference, Blaine, Washington, 27 February - 2 March.
- A.D. Buren, M. Koen-Alonso & G.B. Stenson. 2007. Harp seal diet in NL, multinomial regression approach. Seals Impact Workshop 1: International workshop to review the impacts of seals on Atlantic cod stocks in eastern Canadian waters, hosted by Fisheries and Oceans Canada. November 2007. Halifax, Nova Scotia, Canada.
- M. Koen-Alonso, A.D. Buren, A. Bundy & G. Stenson. 2007. Bionenergetic-allometric multispecies

models: approach description and ongoing work in the Newfoundland-Labrador and Eastern Scotian Shelf systems. Seals Impact Workshop 1: International workshop to review the impacts of seals on Atlantic cod stocks in eastern Canadian waters, hosted by Fisheries and Oceans Canada. November 2007. Halifax, Nova Scotia, Canada.

- M. Koen-Alonso & A.D. Buren. 2006. Top predators' diet as indicator of ecosystem status: what do we need to make it work? DFO National Science Workshop. Mont-Joli, Québec, November 21-23, 2006.
- A.D. Buren, M. Koen-Alonso, W.A. Montevecchi, J.T. Anderson, B. deYoung & G.K. Davoren. 2006. Modeling trophic interactions between parental common murres and capelin off the northeast Newfoundland coast. ICES Annual Science Conference. 19-23 September 2006. Maastricht, the Netherlands.
- A.D. Buren, M. Koen-Alonso, W.A. Montevecchi, J.T. Anderson, B. deYoung & G.K. Davoren. 2006. Modeling the link between prey availability and diet: Common murre (*Uria aalge*) and capelin (*Mallotus villosus*) interaction during the breeding season around Funk Island. NAFO Symposium: Environmental and Ecosystem Histories in the Northwest Atlantic What Influences Living Marine Resources? 13-15 September 2006. Dartmouth, Nova Scotia, Canada
- A.D. Buren, M. Koen-Alonso, W.A. Montevecchi, J.T. Anderson, B. deYoung & G.K. Davoren. 2006. Modeling trophic interactions between parental common murres and capelin off the northeast Newfoundland coast. In: Abstracts of the 2006 Fisheries and Marine Ecosystems (FAME) Graduate Student Conference: Integrating Science and Policy. Camp Alexandra, Crescent Beach, British Columbia, Canada.
- A.D. Buren, M. Koen-Alonso & G. Stenson. Predator-prey interaction between harp seals and Atlantic cod: An exploration of sources of variation. ICES/GLOBEC Workshop on the Decline and Recovery of Cod Stocks throughout the North Atlantic, including tropho-dynamic effects. May 9-12, 2006. St John's, Newfoundland, Canada.
- A.D. Buren. Modeling trophic interactions between parental common murres and capelin off the northeast Newfoundland coast. Workshop of the NSERC Strategic Project 'Importance of capelin (*Mallotus villosus*) biology in sustaining trophic interactions in the Northwest Atlantic'. April 18-21, 2006. St John's, Newfoundland, Canada.
- A.D. Buren. Modelling a top predators diet: the Common Murre. Workshop of the NSERC Strategic Project 'Importance of capelin (*Mallotus villosus*) biology in sustaining trophic interactions in the Northwest Atlantic'. March 1-4, 2005. St John's, Newfoundland, Canada.
- A.D. Buren, M. Koen-Alonso, S.N. Pedraza, E.A. Crespo, & N.A. Garca. 2003. Cambios en la dieta de la raya picuda (*Dipturus flavirostris*) en dos períodos de los últimos diez años. In: Abstracts of the V Jornadas Nacionales de Ciencias del Mar. December 8-12, 2003, Mar del Plata, Argentina. [Translation of the title: Changes in the diet of the beaked skate (*Dipturus flavirostris*) between two periods in the last ten years]

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.
- GK. 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. Garca, G.M. Svendsen & S.L. Dans. New record of a complete specimen of the Shepherds 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.

LECTURES, SEMINARS AND WORKSHOPS

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.

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.

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.

VOLUNTEER POSITIONS

- 2011-present. Scouts Canada
Beavers and Cubs Leader
- 2001-2004. Sailing instructor
Nautical Club
University of Patagonia