

## Chantelle Burke

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### EDUCATION

<i>Memorial University of Newfoundland, St. John's, NL, Canada</i> <b>M.Sc. Candidate in Cognitive and Behavioural Ecology</b>	<b>2005-present</b> part-time status
<i>Marine Institute, Memorial University of Newfoundland</i> <b>Marine Environmental Technology</b>	<b>1998-2001</b>
<i>Memorial University of Newfoundland, St. John's, NL, Canada</i> <b>English Literature BA</b>	<b>1987-1997</b>

### PROFESSIONAL EXPERIENCE

<i>Memorial University of Newfoundland, St. John's, NL, Canada</i> <b>Research Assistant 1, Psychology Department</b> As a research assistant for Dr. WA Montevecchi, I have been involved in a number of large research projects: Coasts Under Stress (2002-2004), Environmental Studies Research Funds (2002-2004), NSERC Strategic (2004-2007) and International Polar Year (2007-present). I am very involved in most aspects of Dr. Montevecchi's research and assist in some aspects of his course work (guest lectures, marking). However, my work and interests are focused primarily on collaborative scientific research relating to seabirds and their role as indicators of change in marine ecosystems. My principle roles are: 1) <b>field technician</b> (assisting and overseeing field research involving work on remote seabird colonies and offshore vessel-based surveys), 2) <b>data manager</b> (coordinating data collected as part of large collaborative research programs including inter-disciplinary datasets) 3) <b>grant/contract writing</b> , 4) <b>dissemination of research findings</b> (peer-reviewed journals, reports, scientific conferences and educational outreach; see below) 5) <b>supervision of hired students</b> (MUCEP, SWASP). While working as a research assistant, I also completed an M.Sc. on a part-time basis that focused on foraging strategies of puffins and murrelets in the NW Atlantic.	<b>2002-present</b>
<i>Memorial University of Newfoundland, St. John's, NL, Canada</i> <b>Field Assistant</b> Assisted in the collection of biological (capelin) and observational (seabird distributions) data from Canadian Coast Guard Ships and a local fishing vessel. Collaborated closely with fisheries biologists from DFO in St. John's	<b>5/2000-5/2002</b>
<i>Canadian Coast Guard, Environmental Response, Mt. Pearl, NL, Canada</i> <b>Work-term Canadian Coast Guard</b> Assisted students with laboratory and field projects, helped students with laboratory assignments, and assisted in the grading of laboratory assignments.	<b>6/2000-9/2000</b>

## PUBLICATIONS AND PAPERS

- Burke CM**, WA Montevecchi (2008) Fish and Chicks: Forage Fish and Chick Success in Co-existing Auks. *Waterbirds*: in press.
- Hedd A, Regular PM, Montevecchi WA, **Burke CM**, Buren AD, Fifield DA (submitted) Going deep: common murres dive in sub-0 °C water for aggregated slow-moving capelin. Submitted to *Journal of Avian Biology*, April 2008.
- Burke CM** (2008) Comparative foraging ecology of Common Murres (*Uria aalge*) and Atlantic Puffins (*Fratercula arctica*) in response to changes in forage fish availability. M.Sc. Thesis, Memorial University of Newfoundland, St. John's, Newfoundland and Labrador.
- Davoren GK, May C, Penton P, Reinfort B, Buren A, **Burke CM**, Montevecchi WA, Andrews D, Rose-Taylor C, Bell T, deYoung B, Record N, Anderson JT, Koen-Alonso M, Garthe S (2007) An ecosystem research project focused on capelin in the Northwest Atlantic: overviews and results. *Journal of Northwest Atlantic Fisheries Science* 39: 35–48.
- Montevecchi WA, Chaffey H, **Burke CM**. (2007) Changing patterns of marine bird hunting in Newfoundland and Labrador. Pages 99 – 116 in C Parrish, S Solberg and N Turner (Editors). *Resetting the Kitchen Table: Food Security in Canadian Coastal Communities*. Nova Science Press, New York, New York.
- Montevecchi WA, Regular PM, **Burke CM**, Hedd A (2007) Year-round tracking of murres in Newfoundland and Labrador. Newfoundland and Labrador Murre Conservation Fund Interim Report submitted to the Newfoundland and Labrador Legacy Nature Trust. 11 pp.
- Burke CM**, Davoren GK, Montevecchi WA, Wiese FK (2005) Surveys of seabirds along support vessel transects and at oil platforms on the Grand Banks. Pages 587-614 in PJ Cransford and K Lee, (Editors). *Offshore Oil and Gas Environmental Effects Monitoring: Approaches and Technologies*. Battelle Press, Columbus, Ohio.
- Montevecchi WA, **Burke CM** (2004) Surveys of marine birds and mammals from offshore support vessels and ships of opportunity in Newfoundland waters. Report for Environmental Studies Research Fund, Energy Board of Canada.
- Montevecchi WA, **Burke CM** (2002) Surveys of marine birds and mammals from offshore support vessels and ships of opportunity in Newfoundland waters. Report for Environmental Studies Research Fund, Energy Board of Canada.
- Burke CM**, Davoren GK, Montevecchi WA, Stenhouse IR (2001). Winging it back to the future: An historic reconstruction of seabird diversity, distribution and abundance in the Northwest Atlantic, 1500-2000. Pages 27-37 in T Pitcher, M Vasconcellas, S Heymans, C Brignall and N Hagan (Editors). Information supporting past and present ecosystem models of northern British Columbia and the Newfoundland Shelf. University of British Columbia Fisheries Centre Research Report 10: 27-37.

## PRESENTATIONS

- Burke CM**, Montevecchi WA, Hedd A, Regular PM and Gaston AJ (2008) Planet Ocean: Using Seabirds to Assay Climate Change – Implications for Labrador. Climate Change and Renewable Resources in Labrador: Looking toward 2050, Northwest River, Labrador, 11-13 March.
- Burke CM**, Montevecchi WA, Montevecchi, Koen-Alonso M, Penton P, Buren A (2008). Flexible foraging by murres in the face of changing capelin availability. Pacific Seabird Group Conference, Blaine, Washington, 27 February – 2 March.
- Hedd A, Regular PM, Montevecchi WA, **Burke CM**, Buren AD, Fifield DA (2008) Going deep: common murres dive in sub-0 °C water for aggregated slow-moving capelin. PSG Conference, Blaine, Washington, 27 Feb – 2 Mar.
- Montevecchi WA, Garthe S, Fifield DA, Benvenuti S, **Burke CM**, Hedd A, Regular PM, Davoren GK (2008) Movement ecology of gannets and murres in the NW Atlantic. Pacific Seabird Group Conference, Blaine, Washington, 27 February – 2 March.
- Burke CM**, Montevecchi WA, Davoren GK (2008) Capelin availability influences seabird foraging decisions. Canadian Conference for Fisheries Research (CCFFR), Halifax, Nova Scotia, 3 – 5 January.
- Burke CM** (2007) Comparative foraging ecology of Common Murres (*Uria aalge*) and Atlantic Puffins (*Fratercula arctica*) in response to changes in forage fish availability. M.Sc. Thesis Presentation. Memorial University of Newfoundland, St. John's, Newfoundland and Labrador. 27 November.
- Burke CM**, Montevecchi WA, Anderson JT and Koen-Alonso M (2006) Specialist (common murre *Uria aalge*) and generalist (Atlantic puffin *Fratercula arctica*) avian predators and forage fish availability. Northwest Atlantic Fisheries Organization Meeting, Halifax Nova Scotia. 3 – 5 January.
- Burke CM**, Montevecchi WA, Davoren GK (2006) Linking the diets of two avian predators to capelin availability. Pacific Seabird Group (PSG) Annual Meeting. Girdwood, Alaska, 27 February – 1 March.
- Burke CM**, Montevecchi WA, Davoren GK (2006) Linking the diets of two avian predators to capelin availability. Aldrich Interdisciplinary Conference, Memorial University of Newfoundland, St. John's, Newfoundland.
- Burke CM**, Montevecchi WA, Penton P, Koen-Alonso M (2005) Assessing forage fish availability from the diets of puffin chicks at an inshore and offshore colony off the northeast coast of Newfoundland. Canadian Conference for Fisheries Research (CCFFR), Windsor, Ontario 3-5 January.
- Burke CM**, Montevecchi WA, Penton P, Koen-Alonso M (2005) Assessing forage fish availability from the diets of puffin chicks at an inshore and offshore colony off the northeast coast of Newfoundland. Aldrich Interdisciplinary Conference, Memorial University of Newfoundland, St. John's, Newfoundland, February.
- Burke CM**, Montevecchi WA, Davoren GK and WA (2003) Associations of marine birds and mammals with hydrocarbon platforms on the Grand Banks. Offshore Oil and Gas Environmental Effects Monitoring Workshop, Dartmouth Nova Scotia 26-30 May.
- Burke CM**, Davoren GK, Montevecchi WA, Wiese FK (2003) Mismanagement of environmental monitoring of seabirds and marine mammals at offshore oil platforms on the Grand Banks. Ocean Management Research Network, Ottawa Ontario, 25-27 November 2003.

**Burke CM**, Davoren GK, Montevecchi WA. and Stenhouse IJ (2002) Winging it back to the future: historic reconstruction of seabird diversity, distribution and abundance in the Northwest Atlantic. Ocean Management Research Network, Ottawa Ontario, 25-27 October 2002.

**Burke CM** (2002) Surveying seabirds in association with oil and gas platforms on the Grand Bank. Monthly meeting of the Regional Advisory Council on Oil Spill Response, Mount Pearl, NL, November 2002.

## POSTERS

Montevecchi WA, Gaston AJ, Davoren GK, **Burke CM**, Fifield DA, Garthe S, Gilchrist HG, Hedd A, Hobson K, Mallory ML, Phillips R, Rail J, Regular PM, Robertson GJ Seabirds Help Detect Arctic Ecosystem Change: A Canadian International Polar Year (IPY) Initiative. Collaborative and iterative poster presented at:

- 1) Climate Change & Renewable Resources in Labrador: Looking toward 2050, Northwest River, Lab, 11-13 March 2008.
- 2) Canadian Conference for Fisheries Research (CCFFR), Halifax, Nova Scotia, 3 – 5 January 2008.
- 3) Pacific Seabird Group Conference, Blaine, Washington, 27 February – 2 March 2008.
- 4) IPY Researchers Workshop, Gatineau, Quebec, 15-17 October, 2007.

Davoren GK, May C, Penton P, Reinfort B, Buren A, **Burke CM**, Montevecchi WA, Andrews D, Rose-Taylor C, Bell T, deYoung B, Record N, Anderson JT, Koen-Alonso M, Garthe S. Importance of Capelin (*Mallotus villosus*) Biology in Sustaining Trophic Interactions in the Northwest Atlantic. Collaborative and iterative poster presented at:

- 1) Canadian Conference for Fisheries Research (CCFFR), Windsor, Ontario 3 - 5 January 2006.
- 2) Northwest Atlantic Fisheries Organization Meeting, Halifax Nova Scotia. 3 – 5 January 2006.

**Burke CM**, Davoren GA, Montevecchi WA, Wiese FK (2003) Marine Bird and Mammal Surveys from Support Vessels and Ships of Opportunity on the Grand Banks. Offshore Oil and Gas Environmental Effects Monitoring Workshop, Dartmouth Nova Scotia 26-30 May.

**Burke CM**, Stenhouse IJ, Davoren GK, Montevecchi WA (2002) What the Past Can Tell Us about the Present: Part 1: Historical Reconstruction of Coastal Settlements and Interactions with Marine Resources, 1500-2000. Ocean Management Research Network, Ottawa Ontario, 25-27 October 2002.

Stenhouse IJ, **Burke CM**, Davoren GK, Montevecchi WA (2002) What the Past Can Tell Us about the Present: Part II: Historic Reconstruction of Seabird Diversity, Distribution and Abundance in the Northwest Atlantic. Ocean Management Research Network, Ottawa Ontario, 25-27 October 2002.

## ACADEMIC EXPERIENCE

*Memorial University of Newfoundland*

**Guest Lecturer – Science 1000**

**2005-2008  
fall semester**

I conduct a lecture on seabirds and oil pollution in Atlantic Canada as part of the course curriculum.

**Guest Lecturer – Animal Behavior 4750**

Conducted a lecture relating to overview aspects of my M.Sc. Research involving foraging behavior in closely related puffins and murre

**2008  
winter semester**

**Guest Lecturer – Animal Behavior 4750**

Conducted a lecture on the design and execution of a marine field study from my Master's research

**2006  
summer semester**

## PUBLIC - EDUCATIONAL OUTREACH

*Interview on Local CBC Radio*

**July 2005**

**CBC St. John's, Fisherman's Broadcast**

Interviewed about doing research on remote seabird colonies

*Memorial University of Newfoundland*

**2006**

**Memorial University of Newfoundland's Research Report 2006**

My graduate research/background was profiled in this annual report in 2006.

*Educational Outreach Nova Central School District*

**June 2005**

**Educational High School Tour**

Along with three other M.Sc. students that were involved in a collaborative research project supported by an NSERC Strategic Grant, we visited 4 high schools on the Northeast Coast of Newfoundland and gave a presentation on "Seabirds, Capelin and the Oceanography of the Northeast Coast"

*Memorial University of Newfoundland*

**April 2005-2008**

**Enrichment Mini Course**

I have participated as a speaker in the mini course offered to enrichment junior high students from schools around Newfoundland. My lecture is about how and why we study seabirds.

## AWARDS

**Northern Scientific Training Program Grant** (Northern Labrador Research)

**July 2002**

**Clemens-Rigler Travel Fund** (Canadian Conference for Fisheries Research)

**January 2005**

**Clemens-Rigler Travel Fund** (Canadian Conference for Fisheries Research)

**January 2008**

## CERTIFICATIONS

Marine Emergency Duties A1, Transport Canada

**May 2001**

Small Boat Operator, Marine Institute, Memorial University of Newfoundland

**May 2000**