

# JACLYN A. AUBIN

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## EDUCATION

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### PhD, Biological Sciences (2020 - )

University of Windsor, ON

Co-supervisors: Dr. Daniel Mennill & Dr. Valeria Vergara

Thesis: Acoustic investigation of population structure, vocal dialects, and responses to disturbance in endangered St. Lawrence belugas

### MSc, Cognitive and Behavioural Ecology (2017 - 2020 )

Memorial University of Newfoundland, NL

Supervisor: Dr. Eric Vander Wal

Awarded: "Fellow of the School of Graduate Studies"

Thesis: Investigation of allocare in the St. Lawrence Estuary beluga population

## COMPETITIVE AWARDS AND SCHOLARSHIPS

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Ontario Graduate Scholarship (06/2020) – declined 15,000\$

NSERC Canada Graduate Scholarship -Doctoral (04/2020) 105,000\$

Dr. Jon Lien Memorial Recruitment Scholarship (09/2017) 5054\$

NSERC Undergraduate Student Research Award (05/2014) 4500\$

## PUBLICATIONS

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**Aubin, J. A.**, Vander Wal, E., Michaud, R. 2022. Protection, energetic assistance, or social perks: How do beluga offspring benefit from allocare? *Marine Mammal Science*, 1-21. <https://doi.org/10.1111/mms.12957>

**Aubin, J. A.**, Vander Wal, E., Michaud, R. 2021. Prospective evolutionary drivers of allocare in wild belugas. *Behaviour*, advance online publication. <https://doi.org/10.1163/1568539X-bja10094>

Newudiuk, L., Boyle, S. P., Ethier, J. P., **Aubin, J. A.**, Ballufi-Fry, J., Dedeban, E., Laforge, M. P., Prokopenko, C. M., Turner, J. W., Webber, Q. M. R., Vander Wal, E. 2021. Sociopolitical factors drive conservation planning timelines: a Canadian case study with global implications. *Biological Conservation*, 257(1), <https://doi.org/10.1016/j.biocon.2021.109091>

## CONFERENCE PRESENTATIONS

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Aug. 2022 24th biennial Conference on the Biology of Marine Mammals Society  
"How to spy on a beluga: Assessing drone disturbance in free-living whales"  
**Aubin JA**, Mikus, M-A, Michaud, R, Mennill, DJ, Vergara,

Aug. 2019 1st Joint Meeting of the Canadian Society for Ecology & Evolution, the Entomological Society of Canada, and the Acadian Entomological Society, Fredericton, NB  
"Patterns and prospective drivers of allocare in St. Lawrence Estuary belugas" (talk)  
**Aubin, JA**, Vander Wal, E, Michaud, R

April 2019 12th Annual Biology Graduate Student Symposium, St. John's, NL

- “Why should I care? Patterns of allocare in St. Lawrence Estuary belugas” (talk)  
**Aubin, JA**, Vander Wal, E, Michaud, R
- Oct. 2018 55<sup>th</sup> Annual Meeting of the Atlantic Society of Fisheries & Wildlife Biologists, *Corner Brook, NL*  
 “Beluga babysitters: Evidence of costly allomaternal behaviour in an endangered social odontocete” (talk)  
**Aubin, JA**, Vander Wal, E, Michaud, R
- May 2018 57<sup>th</sup> Annual Meeting of the Canadian Society of Zoologists, St. John’s, *NL*  
 “Evidence of allomaternal care in an endangered social odontocete” (poster + talk)  
**Aubin JA**, Vander Wal E, Michaud R
- April 2018 11<sup>th</sup> Annual Biology Graduate Student Symposium, *St. John’s, NL*  
 “Investigation of allomaternal care in the endangered St. Lawrence Estuary beluga population” (poster)  
**Aubin JA**, Vander Wal E, Michaud R

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## ACADEMIC WORK EXPERIENCE

### **Teaching Assistant, Ecology BIOL2101 (2020- 2022)**

- Dr. Daniel Mennill, University of Windsor – Windsor, ON  
 -Co-develop a series of labs aimed at scientific writing and communication  
 -Provide detailed feedback to foster students’ scientific writing skills

### **Field Assistant, Moose Sustainable Stewardship Project (05/2018, 05/2019)**

- Wildlife Evolutionary Ecology Lab, Memorial University – St. John’s, NL  
 -Use ATVs, snowmobiles, and snowshoes to deploy camera traps in remote locations  
 -Present project goals and progress reports to First Nations stakeholders

### **Field Assistant, Fogo Island Caribou Calf Collaring (05/2018, 05/2019)**

- Wildlife Evolutionary Ecology Lab, Memorial University – St. John’s, NL  
 -Use telemetry equipment to track collared caribou  
 -Capture, collar, sex, measure, and tag caribou calves

### **Teaching Assistant, Selected Topics in Animal Behaviour PSYCH 4750 (01/2019, 05/2019)**

- Dr. Carolyn Walsh, Memorial University – St. John’s, NL  
 -Prepare and present critique writing workshop  
 -Assess student learning through worksheets

### **Teaching Assistant, Biology of Vertebrates BIOL 2210 (09/2018, 05/2019)**

- Dr. Eric Vander Wal, Memorial University – St. John’s, NL  
 -Prepare and lead midterm and final review sessions  
 -Mentor students in difficulty

### **Field Assistant, Snowshoe Hare Trapping (11/2018)**

- Terrestrial Ecology Research Group, Memorial University – St. John’s, NL  
 -Trap, collar, and sex snowshoe hares  
 -Use telemetry equipment

### **Drone Pilot/Field Assistant (06/2017 - 08/2017, 06/2018 – 08/2018)**

- Marine Mammal Research and Education Group (GREMM) - Tadoussac, Qc  
 -Pilot drones in the field and deploy hydrophones  
 -Perform behavioural analysis of beluga pods from drone footage

**NSERC Undergraduate Student Researcher** (05/2014 - 08/2014)

Memorial University of Newfoundland - St. John's, NL

- Collect marine bivalve specimens
- Perform histological analysis of tissues

**MUCEP lab technician** (01/2016 - 05/2013)

Memorial University of Newfoundland - St. John's, NL

- Prepare PCR for bacterial 16S rRNA sequences
- Assess PCR results via gel electrophoresis

**NON-ACADEMIC WORK EXPERIENCE**

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**Photo-identification Research Assistant** (06/2016 - 09/2016)

Marine Mammal Research and Education Group (GREMM) - Tadoussac, Qc

- Carry out cetacean photoidentification protocols in both field and laboratory settings
- Raise public awareness of conservation issues and research projects in the SSL Marine Park

**Marine Science Technician** (02/2016 - 05/2016)

Department of Fisheries and Oceans - St. John's, NL

- Perform histological analysis of halibut tissues
- Identify clusters of rodlet cells in gonadal tissues

**Field Technician** (05/2012 - 09/2012)

Club Agroenvironnemental de l'Estrie - Sherbrooke, Qc.

- Assess presence of pests and diseases in various crops
- Optimize pesticide use with regards to environmental impact and crop output

**PUBLIC SERVICE**

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Biology Graduate Student Associate Executive

Seminar Coordinator (2018 – 2019) – Elected position

Biology Graduate Student Symposium Planning Committee (2019)

**PUBLIC OUTREACH**

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**Interviews**

“How studying ‘babysitting’ in belugas can help protect an endangered population” (08/2018)

Evgeni Matveev, CBC

URL : <https://www.cbc.ca/news/canada/newfoundland-labrador/babysitting-belugas-for-conservation-1.4779013>

**Public talks**

“Community and dialects in St. Lawrence belugas” (02/2022)

The Whale Sanctuary Project – Live webinar

“Les soins allomaternels chez les bélugas du St. Laurent” (08/2018)

GREMM - Tadoussac, Qc

“La recherche sur les bélugas de la Baie-Ste-Marguerite” (07/2018)

GREMM – Tadoussac, Qc

“Cetacean photoidentification in modern research and conservation” (07/2016)  
GREMM - Tadoussac, Qc.

### **Educational articles**

“De retour à la tour: une deuxième saison à Baie-Ste-Marguerite” (07/2018)  
Ed.: Marie-Ève Muller; baleinesdirect.org  
URL : <https://baleinesdirect.org/de-retour-a-la-tour-une-deuxieme-saison-a-baie-ste-marguerite/>

“De retour à la tour: une deuxième saison à Baie-Ste-Marguerite” (07/2018)  
Ed.: Marie-Ève Muller; baleinesdirect.org  
URL : <https://baleinesdirect.org/de-retour-a-la-tour-une-deuxieme-saison-a-baie-ste-marguerite/>

“Un premier indice sur les soins allomaternal à la BSM” (08/2017)  
Ed.: Marie-Ève Muller; baleinesdirect.org  
URL: <http://baleinesdirect.org/avec-les-belugas-semaine-du-24-juillet-2017/>

“Des crèches de bélugas dans le Saint-Laurent?” (07/2017)  
Ed. : Marie-Ève Muller; baleinesdirect.org  
URL: <http://baleinesdirect.org/creches-belugas-saint-laurent/>

“Des bleues de grande renommée” (09/2016)  
Ed.: Béatrice Riché; baleinesdirect.org  
URL: <http://baleinesdirect.org/des-bleues-de-grande-renommee-par-jaclyn-aubin/>

“Rencontre avec un phoque gris” (08/2016)  
Ed.: Béatrice Riché; baleinesdirect.org  
URL : <http://baleinesdirect.org/rencontre-avec-un-phoque-gris-par-jaclyn-aubin/>

“À la rencontre des géants” (08/2016)  
Ed.: Béatrice Riché; baleinesdirect.org  
URL: <http://baleinesdirect.org/a-la-rencontre-des-geants-par-jaclyn-aubin>

“Soleil levant sur le Saint-Laurent” (08/2016)  
Ed.: Béatrice Riché, baleinesdirect.org  
URL: <http://baleinesdirect.org/soleil-levant-sur-le-saint-laurent-par-jaclyn-aubin/>

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### **SPECIAL SKILLS & CERTIFICATION**

- Small Vessel Operator Training  
Certified by Transport Canada, 2022
- Marine Basic First Aid – Level C – CPR AED  
Certified by Canadian Red Cross, 2022
- Certified Drone Pilot (RPAS VLOS), Basic Operations  
Certified by Transport Canada, 2021
- Snowmobile Operator’s Course  
Certified by Canada Safety Council, 2019
- All Terrain Vehicle Operator’s Course  
Certified by Canada Safety Council, 2019