



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Scienze e Politiche Ambientali** dell'Università degli Studi di Milano

Scientist- in - charge: **Prof. Diego Rubolini** and **Prof. Michela Sugni**

## CURRICULUM VITAE LEANDRI-BRETON, Don-Jean

### PERSONAL INFORMATION

<i>Surname</i>	Don-Jean
<i>Name</i>	LEANDRI-BRETON

### PRESENT OCCUPATION

<i>Appointment</i>	<i>Structure</i>
PhD candidate	McGill University (Montréal, Canada)

### EDUCATION AND TRAINING

<i>Degree</i>	<i>Course of studies</i>	<i>University</i>	<i>year of achievement of the degree</i>
PhD	Renewable Resources (Wildlife Biology)	McGill University (Canada)	Expected graduation January 2024
Master ( <i>cum laude</i> )	Biology	Université du Québec à Rimouski (Canada)	2018
BSc	Environmental Sciences	Université Laval (Canada)	2014

### FOREIGN LANGUAGES

<i>Languages</i>	<i>level of knowledge</i>
English	Fluent
French	Native



## AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

SCHOLARSHIPS	
2021- 23	<b>PhD scholarship (2 years)</b> - Weston Family Award in Northern Research – 50 000 \$
2022	<b>PhD scholarship (1 year)</b> - Fonds de Recherche Nature et Technologies du Québec – 21 000 \$
2019-21	<b>PhD scholarship (3 years)</b> - Natural Sciences Engineering Research Council of Canada – 63 000\$
2016	<b>MSc scholarship (1 year)</b> - Fonds de Recherche et Technologies du Québec – 17 000 \$
2015	<b>MSc scholarship (1 year)</b> - Natural Sciences & Engineering Research Council of Canada – 17 500 \$
AWARDS and ACKNOWLEDGEMENTS	
2022	<b>Excellence award</b> – Quebec Centre for Biodiversity Science – 1 500 \$
2021	<b>Excellence award</b> - Hesse Research Award (American Ornithology Society) – 2 000 \$
2018-19	<b>Excellence award</b> - Faculty award for academic excellence (McGill University) – 4 000 \$
2018	<b>Best scientific poster</b> (out of 260) at ArcticNet International Conference – 1 000 \$
2015	<b>Excellence award</b> - Faculty award for academic excellence (UQAR) - 2 000 \$
2011	<b>Excellence award</b> - Faculty award for academic excellence (Université Laval) – 2 000 \$
2010	<b>Best collegial scientific project</b> (ACFAS) – 1 000 USD
RESEARCH & MOBILITY AWARDS	
2022	<b>Internship mobility award</b> - Globalink research Internship award – 6 000 \$
2022	<b>Internship mobility award</b> - Michael Smith Foreign Study Supplement – 6 000 \$
2021	<b>Research award</b> - Arctic Field Grant (The Research Council of Norway) – 79 000 NOK (10 000\$)
2019	<b>Internship mobility award</b> - Fonds de Recherche et Technologies du Québec – 5 000 \$
2014-19	<b>Research award (5 years)</b> - Polar Knowledge Canada Northern Scientific Training Program – 15 000 \$
2013-14	<b>Research award</b> - Undergraduate Student Research Award (NSERC) – 9 000 \$

## TRAINING OR RESEARCH ACTIVITY

Description of activity		
<b>Research Intern</b> in avian hormone radioimmunoassay	Centre d'Études Biologiques de Chizé (CNRS) Location: Chizé, <b>France</b>	2022
<b>Field leader</b> of seabird movement tracking, ecophysiology and demography monitoring	Institute for Seabird Research and Conservation & McGill University Location: Middleton Island, <b>Alaska</b>	2021-22
<b>Field leader</b> of Arctic seabird movement tracking, ecophysiology and demography monitoring	Centre d'Étude Biologique de Chizé (CNRS) – Institut Polar Français Location : Svalbard, <b>Arctic Norway</b>	2019 & 2021
<b>Research Intern</b> in analytical processing of	Norwegian Institute for Nature Research	2020



<b>geolocation tracking data to reconstruct seabird migratory movement</b>	Location: <b>Trømsø, Norway</b>	
<b><u>Biologist</u> in Arctic foodweb and shorebird demography monitoring</b>	Russian Academy of Sciences Location: Yamal Peninsula, <b>Arctic Russia</b>	2018
<b><u>Research Assistant</u> in sharks and narwhal tagging and monitoring</b>	Fisheries & Oceans Canada Location: Baffin Island, <b>Arctic Canada</b>	2017
<b><u>Field leader</u> of Arctic bird demography and tundra foodweb monitoring</b>	Université du Québec à Rimouski Location : Bylot Island, <b>Arctic Canada</b>	2013-217
<b><u>Wildlife Biologist</u> carrying raptor and migrant survey</b>	Tadoussac Bird Observatory Location: Tadoussac, <b>Canada</b>	2014
<b><u>Project leader</u> on boreal bird population monitoring</b>	Université du Québec à Montréal Location: Northern Quebec, <b>Canada</b>	2011-12
<b><u>Research Assistant</u> in cavity-nesting species demography monitoring</b>	Université du Québec à Montréal Location: Abitibi, <b>Canada</b>	2010
<b><u>Wildlife technician</u> carrying mountain bird surveys</b>	Regroupement Québec Oiseaux Location: Estrie, <b>Canada</b>	2009

#### PROJECT ACTIVITY

<i>Year</i>	<i>Project</i>
2021-22	<b><i>Carry-over effects between breeding and wintering stages of a migratory seabird assessed via the experimental manipulation of the reproductive effort.</i></b> Middleton Is, Alaska. PIs: Dr. K. Elliott, D. Rubolini, A. Shoji, J.Cerere and S. Hatch.  Role: In charge of the endocrinology aspect of the project in relation to the movement ecology and breeding preparedness of seabirds. Co-developing and implementing the experimental design; carrying the energy expenditure manipulation in the field (food supplementation and feather clipping); capturing and sampling of seabirds for hormone challenges and tracking device deployment; carrying avian hormone radioimmunoassays.
2019-21	<b><i>Physiological, behavioural and demographic consequences of contaminant exposition in an Arctic seabird.</i></b> IPEV research station, Ny-Ålesund, Svalbard. PI: Dr. O. Chastel  Role: In charge of the movement ecology aspect of the project; developing and implementing the experimental design; nest content monitoring, capturing and sampling seabirds for contaminants and hormones; tracking device deployment; analyzing geolocation and GPS tracking data.
2013-17	<b><i>Demography, distribution and movement of Arctic-nesting birds influenced by the tundra food-web dynamics.</i></b> Bylot Island, Nunavut, Canada. PI: Dr. J. Bêty. UQAR  Role: In charge of the field crew and the shorebird movement tracking using geolocators; carrying the long-term demography monitoring; capture and sampling of shorebirds for genetics and tracking device deployment; nest content monitoring; lemming and arthropods trapping; nest predation monitoring; analyzing the geolocation tracking data.

#### CONGRESSES AND SEMINARS

<i>Date</i>	<i>Title</i>	<i>Place</i>
2022	<b><i>Activity budget and daily energy expenditure of a long-distance migratory seabird wintering in the North Atlantic</i></b>	British Ecological Society International Conference. <b>Edinburgh, Scotland, UK</b>
2022	Title as above	ArcticNet Congress. <b>Toronto, Canada</b>



2022	Title as above	Société Québécoise pour l'Étude Biologique du Comportement (SQEBC) Annual Congress. <b>Gatineau, Canada</b>
2022	<i>Long-term tracking of an Arctic-breeding seabird indicates high fidelity for pelagic wintering areas</i>	Ecological Society of America International Conference. <b>Montréal, Canada</b>
2022	<i>Activity budget and daily energy expenditure of a long-distance migratory seabird wintering in the North Atlantic</i>	Ecological Society of America International Conference. <b>Montréal, Canada</b>
2021	<i>Long-term tracking of an Arctic-breeding seabird indicates high fidelity for pelagic wintering areas</i>	World Seabird International Conference - <b>Online</b>
2021	Title as above	ArcticNet National Congress - <b>Online</b>
2019	<i>Inter-annual repeatability in migration strategies in a High Arctic seabird revealed by 10 years of geolocation tracking"</i>	Société Québécoise pour l'Étude Biologique du Comportement (SQEBC) Annual Congress. <b>Montréal, Canada</b>
2019	Title as above.	Society of Canadian Ornithologists Annual Congress. <b>Quebec City, Canada</b>
2018	<i>Daring crossing or cautious detour? Contrasting transatlantic migration strategies in a small migratory bird breeding in the Canadian Arctic and wintering in Africa"</i>	ArcticNet Congress. <b>Ottawa, Canada</b>
2017	<i>Can predation affect distribution? Arctic-breeding plovers with broader distribution range nest in safer habitat"</i>	Arctic Change International Conference. <b>Quebec, Canada</b>
2017	<i>Plovers with broader distribution breed away from Arctic Fox's fangs"</i>	Société Québécoise pour l'Étude Biologique du Comportement (SQEBC) Annual Congress. <b>Ottawa, Canada</b>
2017	Title as above.	Arctic Fox Biology International Conference. <b>Rimouski, Canada</b>
2016	<i>Between the Canadian Arctic and Africa: the transatlantic journey of the Common Ringed Plover"</i>	Société Québécoise pour l'Étude Biologique du Comportement (SQEBC) Annual Congress. <b>Rimouski, Canada</b>
2016	Title as above.	Centre for Northern Studies (CEN) Annual Congress. <b>Trois-Rivières, Canada</b>
2010	<i>Caractérisation de l'habitat de la Paruline à ailes dorées (Vermivora chrysoptera) en Montérégie</i>	Association francophone pour le savoir (ACFAS). <b>Montréal, Canada</b>

**PUBLICATIONS**

<i>Articles in reviews</i>
<p>1. Jackson, L., <b>D.-J. Léandri-Breton</b> et al. <i>Beyond body condition: Experimental evidence that plasma metabolites improve nutritional state measurements in a free-living seabird.</i> <b>submitted</b> in <b><i>Comparative Biochemistry and Physiology Part A</i></b></p>
<p>2. <b>Léandri-Breton, D.-J.</b>, A. Tarrow, K. Elliott, P. Legagneux et al. 2021. <i>High energy expenditure at</i></p>



<p><i>the core of a seabird's winter range: metabolic mechanisms for range limits. <b>Under review</b> in <b>Ecography</b> <a href="https://doi.org/10.22541/au.168197955.55195128/v1">https://doi.org/10.22541/au.168197955.55195128/v1</a></i></p>
<p>3. Moisan, L., Gravel, D., Legagneux, P., Gauthier, G., Léandri-Breton, D.-J. et al. 2023. Scaling migrations to communities: An empirical case of migration network in the Arctic. <b>Frontiers in Ecology and Evolution</b>, 10, 1264. <a href="https://doi.org/10.3389/fevo.2022.1077260">https://doi.org/10.3389/fevo.2022.1077260</a></p>
<p>4. Jouanneau, W., Léandri-Breton, D.-J., Herzke, D. et al. 2023. Does contaminant exposure disrupt maternal hormone deposition? A study on per-and polyfluoroalkyl substances in an Arctic seabird. <b>Science of the Total Environment</b>, 161413. <a href="https://doi.org/10.1016/j.scitotenv.2023.161413">https://doi.org/10.1016/j.scitotenv.2023.161413</a></p>
<p>5. Jouanneau, W., D.-J. Léandri-Breton, A. Corbeau et al. 2021. A Bad Start in Life? Maternal Transfer of Legacy and Emerging Poly-and Perfluoroalkyl Substances to Eggs in an Arctic Seabird. <b>Environmental Science and Technology</b>. 56(10), 6091-6102 <a href="https://doi.org/10.1021/acs.est.1c03773">https://doi.org/10.1021/acs.est.1c03773</a></p>
<p>6. Léandri-Breton, D.-J., A. Tarroux, K. Elliott, P. Legagneux et al. 2021. Long-term tracking of an Arctic-breeding seabird indicates high fidelity for pelagic wintering areas. <b>Marine Ecology Progress Series</b> 676: 205–218 <a href="https://doi.org/10.3354/meps13798">https://doi.org/10.3354/meps13798</a></p>
<p>7. Davidson, S.C., G. Bohrer, E. Gurarie, ... Léandri-Breton, D.-J., et al. 2020. Ecological insights from three decades of animal movement tracking across a changing Arctic. <b>Science</b> 370(6517): 712-715 <a href="https://doi.org/10.1126/science.abb7080">https://doi.org/10.1126/science.abb7080</a></p>
<p>8. Kankaanpää, T., Vesterinen, E., Hardwick, ... Léandri-Breton, D.-J., et al. 2020. Parasitoids indicate major climate-induced shifts in arctic communities. <b>Global Change Biology</b> 26(11): 6276-6295 <a href="https://doi.org/10.1111/gcb.15297">https://doi.org/10.1111/gcb.15297</a></p>
<p>9. Léandri-Breton, D.-J. and J. Bêty. 2020. Vulnerability to predation may affect species distribution: plovers with broader arctic breeding range nest in safer habitat. <b>Scientific Reports</b> 10(1): 1-8 <a href="https://doi.org/10.1038/s41598-020-61956-6">https://doi.org/10.1038/s41598-020-61956-6</a></p>
<p>10. Léandri-Breton, D.-J., J.-F. Lamarre and J. Bêty. 2019. Seasonal variation in migration strategies used to cross ecological barriers in a Nearctic migrant wintering in Africa. <b>Journal of Avian Biology</b> 50(6): 1-8 <a href="https://doi.org/10.1111/jav.02101">https://doi.org/10.1111/jav.02101</a></p>
<p>11. Léandri-Breton, D.-J., M. Jaffré and J. Bêty. 2018. A rare dark morph in the Canadian Arctic raises questions about moulting and polymorphism in Long-tailed Jaeger (<i>Stercorarius longicaudus</i>). <b>Wilson Journal of Ornithology</b> 130(1): 337-340 <a href="https://doi.org/10.1676/1559-4491-130.1.337">https://doi.org/10.1676/1559-4491-130.1.337</a></p>
<p style="text-align: center;"><b>Thesis</b></p>
<p>Léandri-Breton, Don-Jean. M.Sc. Thesis. 12 December 2023. <i>Migration strategies along ecological barriers and vulnerability to nest predation in Arctic-nesting plovers</i>. Université du Québec à Rimouski (Rimouski, Canada). 82 pages. <a href="https://semaphore.uqar.ca/id/eprint/1495/">https://semaphore.uqar.ca/id/eprint/1495/</a></p>

#### STUDENT SUPERVISION

<p><b>Jackson, Lauren. Honour's thesis - 2023.</b> <i>Beyond body condition: Plasma metabolites improve nutritional state measurements in a free-living seabird</i>. McGill University. <b>Supervisors:</b> K. Elliott, D.-J. Léandri-Breton and S. Whelan</p>
<p><b>Turmaine, Alexandre. Honour's thesis - 2023.</b> <i>Using Wing Strokes to Determine Seabird Foraging Success</i>. McGill University. <b>Supervisors:</b> K. Elliott, S. Whelan and D.-J. Léandri-Breton</p>
<p><b>Sénécal, Sarah. Honour's thesis - 2017.</b> <i>Prédation des nids de pluviers et l'utilisation d'habitats-refuge en Arctique</i>. Université du Québec à Rimouski. <b>Supervisors:</b> J. Bêty and D.-J. Léandri-Breton</p>



Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: Nice, 12 June 2023.