

Anais Remili

(she/her)

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Highlights

- PhD awarded at McGill University in June 2024 with 6 published peer-reviewed first-author publications.
- Postdoctoral work funded by the SeaDoc Society, PhD funded by the FRQNT, CREATE E-I program and ECOTOQ (all grants and awards totalling > \$190,000).
- Science communicator (bilingual English/French) with 5 years of experience, an invited TED talk (TEDx Cape May 2023), appearances on national broadcasts, National Geographic, and editor-in-chief of Whale Scientists, an online marine mammal science communication platform by early-career researchers.
- > 7 years of research experience with marine mammals, in the field and in the laboratory.

Current position

October 2023 – June 2024 Postdoctoral researcher, Department of Biological Sciences, Faculty of Science, Simon Fraser University (Canada), to study the metabolomic profiles across tissues of captive killer whales, under the supervision of Prof. Tanya Brown.

Education

- 2019 – 2024 PhD in Renewable Resources, Department of Natural Resource Sciences
Faculty of Agriculture and Environmental Sciences, McGill University (Canada)
Honored by McGill's president through the competitive President's Prize for Public Engagement through Media
- 2016 - 2018 MSc in Marine Environment and Resources (MER) Erasmus Mundus Joint Program
University of Bordeaux (France), University of the Basque Country (Spain), University of Liege (Belgium), University of Southampton (UK)
Suma cum Laude, class valedictorian
- 2012 - 2016 BSc in Biology of the Organisms & Populations
University Claude Bernard, Lyon I (France)

Research experience & training

March 2024 – October 2024 **Independent researcher** contracted by Dr. Robert Letcher (Environment and Climate Change Canada) and Dr. Adam Morris (Crown-Indigenous Relations and Northern Affairs Canada) to conduct a study on the effects of PFAS, POPs and mercury, as well as diet preferences, on the health of polar bears in ringed seals in the Canadian Arctic using metabolomics.
The manuscript from this project is currently submitted to *Environmental Research*.

October 2023 – June 2024 **Researcher** at McGill University (Canada), funded by SeaDoc grant to study the diet composition of the endangered Southern Resident killer whales, in collaboration with NOAA and DFO.

I was specifically contacted by NOAA to conduct this project for them. *Manuscript about to be submitted, results presented at SMM2024 in Perth, Australia.*

January 2019- June 2024 **PhD candidate and research assistant** at McGill University (Canada) under the supervision of Prof. Melissa McKinney and co-supervision of Dr. Robert J. Letcher. (Defended September 2023, Graduated June 2024).

My research aimed to determine how the dietary preferences of North Atlantic orcas influence their contaminant concentration and the potential associated health effects. Skills include review of scientific literature, research design, coordination with many international colleagues for CITES permits and sample shipping, contaminant and fatty acid extraction and quantification, gas chromatography (GC/MS & GC/FID), compound specific stable isotope analyses (and IRMS training), data analysis including quantitative fatty acid models, generalized linear mixed models, PCAs, cluster analyses, etc.

August 2023 **Team leader** for the EarthWatch citizen science program at the Icelandic Orca Project (Vestmannaeyjar, Iceland)

I trained, taught and supervised a team of EarthWatch citizen scientists on killer whale surveys, both at sea, and on land. The team included citizens of each continent, from various backgrounds.

July 2022 **Field assistant** with the Icelandic Orca Project (Vestmannaeyjar, Iceland), under the supervision of Dr. Filipa I.P. Samarra

I participated in killer whale biopsy collection using Aerial Rocket Tag System pneumatic darting system. I also delivered an invited lecture to the IOP staff and IOP Earth Watch volunteers about my research on North Atlantic killer whales.

May-July 2019 **Research internship** at Environment and Climate Change Canada at the Natural Wildlife Research Center, at Carleton University in Ottawa (Canada), under the supervision of Dr. Robert J. Letcher.

I performed an extraction and analysis of persistent organic pollutants, including emerging flame retardants in 64 biopsy samples of killer whales (*Orcinus orca*) sampled in Iceland. Skills include review of scientific literature, research design, data analysis on R (PCA, generalized linear models, cluster analyses), laboratory skills: Gas chromatography with mass spectrometry, contaminant extraction and purification, biohazard certification, hazardous waste certification, Workplace Hazardous Materials Information System (WHMIS) certification

March 2018 **Research internship** at the Toxicology Center of the University of Antwerp (Belgium) under the supervision of Dr. Adrian Covaci.

I conducted the analysis of persistent organic pollutants on 150 biopsy samples of humpback whales, seals and killer whales.

Skills include Contaminant extractions and quantification on GC/MS, data analysis on R (PCA, generalized linear models, cluster analyses), biohazard training

February –
September
2018

Master thesis at the University of Liège, Belgium under the supervision of Prof. Krishna Das

I conducted the analysis of stable isotopes in biopsies from two populations of whales from the southern hemisphere.

Skills include review of scientific literature, research design, data analysis on R (PCA, generalized linear models, cluster analyses), stable isotope extraction and EA/IRMS operation.

November –
December
2017

Necropsy assistant at the University of Liège, Belgium under the supervision of Dr. Thierry Jauniaux

I got trained and assisted with four necropsies of stranded marine mammals including two porpoises, on common dolphin and a grey seal. The training allowed me to perform my own porpoise necropsy, and identify the cause of death.

Skills include autopsy, marine mammal anatomy

June 2017 –
August 2017

Research assistant at the Wise Laboratory of Environmental & Genetic Toxicology, at the University of Louisville, KY (USA) under the supervision of Dr. John P. Wise Sr.

I developed and cultivated humpback and alligator skin and lung cell lines to treat them with hexavalent chromium and assess the effects of chromium on fibroblast mitosis. The internship also included a week-long field campaign in the Gulf of Maine to sample humpback whale biopsies.

Skills include: work in a sterile environment, harmful chemical manipulation, biopsy collection with a crossbow, photo-ID, cell lines maintenance, etc.

Publications

Peer-Reviewed Journal Publications:

6 first-author, 8 total (published) * indicate equal contributions

(In preparation)

(14) Lee, K., Jourdain, E., **Remili, A.**, McKinney, M.A., Karoliussen, R., Ruus, A., Borgå, K. Intraspecific differences in the diet composition of Norwegian killer whales (*Orcinus Orca*) inferred from Quantitative Fatty Acid Signature Analysis (anticipated submission February 2025)

(13) Jourdain, E.M., **Remili, A.**, McKinney, M.A., Karoliussen, R., Ruus, A., Borgå, K. Amino acid compound-specific stable isotopes reveal dietary differences between seal-feeding and fish-feeding killer whales in Northern Norway. (anticipated submission January 2025)

(12) Caputo, M., **Remili, A.**, McKinney, M.A., Kizska, J.J. Niches partition in small odontocetes off Saint Pierre and Miquelon. (anticipated submission December 2024)

(11) Kizka, J.J., Caputo, M., **Remili, A.**, McKinney, M.A., Ferguson, S.H. Niche partition of large baleen whales off Saint Pierre and Miquelon. (anticipated submission December 2024)

(10) **Remili, A.**, Noren, D.P., Schultz, I., Hanson, B.M., Chittaro, P., Emmons, C., Ylitalo, G., O’Neil, S., Chappell, A., Brown, T.M., Gallilee, C. & McKinney, M.M. Diet composition of Endangered Southern Resident

killer whales (*Orcinus orca ater*) of the Northeast Pacific estimated by quantitative fatty acid signature analysis. (anticipated submission December 2024)

(Submitted)

(9) **Remili, A.**, Morris, A.D., Muir, D.C.G., Houde, M., Brown, T., Letcher, R.J. Persistent pollutant exposure impacts metabolomic profiles in polar bears and ringed seals from Canadian High Arctic and Hudson Bay locations. *Environmental Research*

(Published)

(8) **Remili, A.**, McKinney, M. A., Maldonado-Rodriguez, A., Ferguson, S. H., Caputo, M., & Kiszka, J. J. (2024). Legacy persistent organic pollutants among multiple cetacean species in the Northwest Atlantic. *Science of The Total Environment*, 176746.

(7) Lacombe, R. M., Atwood, T. C., Peacock, E., **Remili, A.**, Dietz, R., Sonne, C., & McKinney, M. A. (2024). Long-term storage at 20° C compromises fatty acid composition of polar bear adipose biopsies. *Marine Ecology Progress Series*, 728, 75-80.

(6) Desforges, J. P., Ferguson, S. H., **Remili, A.**, McKinney, M. A., Watt, C. A., & Matthews, C. J. (2024). Assessment of persistent organic pollutants in killer whales (*Orcinus orca*) of the Canadian Arctic: Implications for subsistence consumption and conservation strategies. *Environmental Research*, 244, 117992.

(5) **Remili, A.**, Dietz, R., Sonne, C., Samarra, F. I.P., Rikardsen, A. H., Ferguson, S.H., Watt, C.A., Matthews, C.J.D., Kiszka, J.J., Rosing-Asvid, A., McKinney, M.A. (2023). Varying Diet Composition Causes Striking Differences in Legacy and Emerging Contaminant Concentrations in Killer Whales across the North Atlantic. *Environmental Science & Technology*. 57(42), 16109-16120.

(4) **Remili, A.**, Dietz, R., Sonne, C., Samarra, F. I.P., Rikardsen, A. H., Kettmer, L. E., ... & McKinney, M. A.. (2023). Quantitative fatty acid signature analysis reveals a high level of dietary specialization in killer whales across the North Atlantic. *Journal of Animal Ecology*, 1365-2656.13920

(3) **Remili, A.**, Dietz, R., Sonne, C., Iverson, S. J., Roy, D., Rosing-Asvid, A., ... & McKinney, M. A. (2022). Validation of quantitative fatty acid signature analysis for estimating the diet composition of free-ranging killer whales. *Scientific reports*, 12(1), 1-12.

(2) **Remili, A.**, Letcher, R. J., Samarra, F. I.P., Dietz, R., Sonne, C., Desforges, J. P., ... & McKinney, M. A. (2021). Individual Prey Specialization Drives PCBs in Icelandic Killer Whales. *Environmental Science & Technology*, 55(8), 4923-4931.

(1) **Remili, A.**, Gallego, P., Pinzone, M., Castro, C., Jauniaux, T., Garigliany, M.M., Malarvannan, G., Covaci, A. and Das, K., 2020. Humpback whales (*Megaptera novaeangliae*) breeding off Mozambique and Ecuador show geographic variation of persistent organic pollutants and isotopic niches. *Environmental Pollution*, 267, p.115575.

Book chapters

(1) Teixeira, C.*, **Remili A.***, Troina, G., Hernadez, H. Diet and trophic interactions of marine mammals. *Marine Mammal Research in the 21st Century - Emerging Technologies and Applications for the Field and Laboratory* Eds: Kiszka, J.J., Caballero, S., Srinivasan, M., & Heithaus. M.R. (Submitted, launch 2025)

Presentations in conferences (* presenter)

- November 2024 **Society for Marine Mammalogy 2024**, Perth, Australia
Diet composition of Endangered Southern Resident killer whales (*Orcinus orca ater*) of the Northeast Pacific estimated by quantitative fatty acid signature analysis. **A. Remili***, D. P. Noren, I. Schultz, P. Chittaro, M. B. Hanson, T. M. Brown, C. Gallilee, M. A. McKinney
- May 2024 **SETAC Europe 2024**, Seville, Spain
Legacy persistent organic pollutants among multiple cetacean species in the Northwest Atlantic. **A. Remili***, M. A. McKinney, A. Maldonado-Rodriguez, S. H. Ferguson, M. Caputo & J. J. Kiszka
- October 2023 **CEW 2023**, Ottawa, Canada
A first detailed meta-assessment of legacy and emerging POPs in killer whales across the North Atlantic Ocean show that diet explains most variation. **A. Remili***, R. Dietz, C. Sonne, F. I.P. Samarra, R. J. Letcher, A. H. Rikardsen, S. H. Ferguson, C. A. Watt, C. J.D. Matthews, J. J. Kiszka, A. Rosing-Asvid, M. A. McKinney
- September 2023 **Dioxin 2023**, Maastricht, Netherlands
Comparative analysis of persistent organic pollutants in free-ranging grey and harbour seals from Scotland: Influence of habitat, diet, and sex. K. Das*, P. Pomeroy, M. Collard, **A. Remili**, F. Damseaux, G. Malarvannan, A. Covaci
- May 2023 **SETAC Europe 2023**, Dublin, Ireland
First detailed assessment of organic contaminants in killer whales across the North Atlantic Ocean and the influence of diet composition. **A. Remili***, R. Dietz, C. Sonne, F. I.P. Samarra, R. J. Letcher, A. H. Rikardsen, L. E. Ketteimer, S. H. Ferguson, C. A. Watt, C. J.D. Matthews, J. J. Kiszka, A. Rosing-Asvid, M. A. McKinney
- December 2022 **NOAA Northwest Fisheries Science Center Weekly Seminar Series**, Online (*Invited speaker*) Newly validated quantitative fatty acid signature analysis reveals killer whale diet compositions across the North Atlantic. **A. Remili***
- November 2022 **The Wildlife Society's Annual Conference 2022**, Spokane (WA), USA. (*Invited speaker*) Let's talk about fat: using fatty acid signatures to assess diet composition and application to marine mammal research. **A. Remili***, M.A. McKinney
- August 2022 **Society for Marine Mammalogy 2022**, West Palm Beach, FL, USA
Quantitative fatty acid signature analysis (QFASA) validated for killer whales and applied to estimate the diets of free-ranging killer whales across the North Atlantic. **A. Remili***, R. Dietz, C. Sonne, F.I.P. Samarra, A.H. Rikardsen, L.E. Ketteimer, S.H. Ferguson, C.A. Watt, C.J.D. Matthews, J.J. Kiszka, E. Jourdain, K. Borgå, H. Land-Miller, A. F. Pedersen, M.A. McKinney
- April 2022 **European Cetacean Society Conference 2022**, Online
Validation of quantitative fatty acid signature analysis for estimating the diet composition of free-ranging killer whales. **A. Remili***, R. Dietz, C. Sonne, S.J. Iverson, D. Roy, A. Rosing-Asvid, H. Land-Miller, A.F. Pedersen and M.A. McKinney

- November 2021 **NRS graduate seminars**, McGill University, Montréal, Canada
Using dietary tracers to understand the feeding ecology and contaminant exposures of North Atlantic killer whales, **A. Remili***
- June 2021 **Cetacean Sessions** by Bay Cetology, Online. (*Invited speaker*)
You are what you eat, PCBs in North Atlantic killer whales, **A. Remili*** and C. Andvik
- May 2021 **24 Heures de Sciences**, Online, Quebec
Voyage avec les baleines, A. Remili and M. Bourque
- May 2021 **SETAC Europe 2021**, Online
Individual Prey Specialization Drives PCBs in Icelandic Killer Whales, **A. Remili***, R. J. Letcher, F.I.P. Samarra, R. Dietz, C. Sonne, J.P. Desforages, G. Vikingsson, D. Blair, M.A. McKinney
- April 2021 **NAMMCO Student Symposium 2021**, Tromsø (Online), Norway
Individual Prey Specialization Drives PCBs in Icelandic Killer Whales, **A. Remili***, R. J. Letcher, F.I.P. Samarra, R. Dietz, C. Sonne, J.P. Desforages, G. Vikingsson, D. Blair, M.A. McKinney
- January 2020 **McGill North Day 2020**, Montréal, Canada
Variation in blubber concentrations of persistent organic pollutants in Icelandic killer whales, 2014-2016, **A. Remili***, R. J. Letcher, F.I.P. Samarra, R. Dietz, C. Sonne, J.P. Desforages, G. Vikingsson, D. Blair, M.A. McKinney
- December 2019 **World Marine Mammal Conference**, Barcelona, Spain
A review of the current evidence on the classification of North Atlantic killer whale (*Orcinus orca*) as distinct ecotypes, **A. Remili***, R. Dietz, C. Sonne, R. J. Letcher, S. H. Ferguson, I. Eulaers, M.A. McKinney (Poster presentation)
- November 2019 **SETAC North America 2019**, Toronto, Canada
Blubber persistent organic pollutants levels in Icelandic killer whales (*Orcinus orca*), 2014-2016, **A. Remili***, R. J. Letcher, F.I.P. Samarra, R. Dietz, C. Sonne, J.P. Desforages, G. Vikingsson, D. Blair, M.A. McKinney
- October 2019 **Arctic Circle Assembly**, Reykjavik, Iceland
Dual Approach to Understanding Killer Whale Feeding Ecology in the North Atlantic Ocean
A. Remili* *Won first prize of the international “My Nordic Project” competition*
- August 2019 **Dioxin 2019 & Dioxin Student Session 2019**, Kyoto, Japan
Persistent organic pollutants in humpback whales from the Southern Hemisphere: influence of gender stock and trophic ecology, **A. Remili***, P. Gallego, T. Jauniaux, G. Malarvannan, A. Covaci., K. Das
- May 2019 **Mon Projet Nordique 2019**, Québec, Canada
Dual Approach to Understanding Killer Whale Feeding Ecology in the North Atlantic Ocean
A. Remili* *Won first prize*
- February 2019 **SETAC YES 2019**, Ghent, Belgium
Persistent organic pollutants in humpback whales from the Southern Hemisphere: influence of stock and trophic ecology, **A. Remili***, G. Malarvannan, A. Covaci., K. Das (Poster presentation)

September 2018 **VIVAs MER program 2018**, Plentzia Marine Station, Spain
 Persistent organic pollutants in humpback whales from the Southern Hemisphere: influence of stock and trophic ecology, **A. Remili***, G. Malarvannan, A. Covaci., K. Das *Won first prize: Prof. MB Colins Best Master Thesis Presentation*

Scholarships and grants

Total value > \$155,000 (based on current exchange rates)

<u>Grant or scholarship</u>	<u>Value</u>	<u>Location</u>	<u>Years</u>
(9) SeaDoc Society grant for Diet composition of Southern Resident Killer Whales revealed by newly validated quantitative fatty acid signature analysis approach	50,000 USD	McGill University	2023-2024
(8) Carbon isotope analysis. Contract to M.A. McKinney and A. Remili from Fisheries and Oceans Canada (C. @)	9,000 CAD	McGill University	2022-2023
(7) Contaminant analysis of St Pierre and Miquelon cetaceans. Contract to M.A. McKinney and A. Remili from Fisheries and Oceans Canada (S. Ferguson)	9,100 CAD	McGill University	2022-2023
(6) Effects of multiple stressors on Norwegian killer whales: MULTIWHALE (I am a collaborator on this grant, <u>not included</u> in the total amount).	2,949,000 Norwegian krone	McGill University	2021-2025
(5) FRQNT doctoral scholarship, Québec	35,000 CAD	McGill University	2022-2023
(4) Bourse DIALOGUE, FRQNT, Québec, to develop my science communication skills and develop Whale Scientists into a global whale communication platform (increase the monthly readership from 5-10K to 15-30K)	5,000 CAD	McGill University	2021
(3) ECOTOQ excellence award (stipend top-up) for 2019-2020	2,000 CAD	McGill University	2019-2020
(2) CREATE-Environmental Innovation Program, Department of Natural Resource Sciences, McGill University	19,250 CAD	McGill University	2019-2020
(1) MER consortium excellence grant to pursue my studies in the Erasmus Mundus MER+ master program	2,600 EUR	Universidad del Pais Vasco	2016-2018

Academic awards and prizes (competitive only)

Total value > \$45,000 (based on current exchange rates)

<u>Award</u>	<u>Value</u>	<u>Location and date</u>
(26) American Cetacean Society-Puget Sound Chapter travel grant	1000 CAD	Vancouver, November 2024
(25) QCBS Excellence Award for my postdoctoral work at McGill	1500 CAD	Montreal, November 2024
(24) Travel grant to attend the 25 th Biennial Conference on the Biology of Marine Mammals in Perth, Australia	550 CAD	Perth, October 2024
(24) QCBS Excellence Award for my postdoctoral work at McGill	1500 CAD	Montreal, May 2024
(23) Winner of McGill's 2024 President's Prize for Public Engagement through Media	5000 CAD	Montreal, March 2024
(22) Chapitre Saint Laurent ECOTOQ mobility award for CEW conference	500 CAD	Ottawa, October 2023
(21) QCBS Excellence Award	1500 CAD	Vestmannaeyjar, Iceland, August 2023
(20) Graduate mobility award by McGill University	1500 CAD	Vestmannaeyjar, Iceland, August 2023
(19) EcotoQ award for SETAC Europe conference	1500 CAD	Dublin, Ireland, May 2022
(17) QCBS excellence award for The Wildlife Society conference	1379 CAD	Spokane, WA, November 2022
(16) SMM Travel grant	900 USD	West Palm Beach, Florida, August 2022
(15) Graduate Research Enhancement and Travel Awards for SMM conference in Florida	400 CAD	West Palm Beach, Florida, August 2022
(14) QCBS excellence award for Icelandic field work	1440 CAD	Iceland, July 2022
(13) First prize for the "présente ta recherche en écotox" competition by ECOTOQ	400 CAD	Quebec, June 2022
(12) Principal's Prize for Public Engagement through Media Runner-up	-	McGill University, June 2022
(11) ECOTOQ travel grant for SETAC Europe	364 CAD	Online, May 2021
(10) Travel award to attend the World Marine Mammal Conference	250 USD	Barcelona, Spain, December 2019
(9) Graduate Research Enhancement and Travel Awards, for SETAC North America conference	200 CAD	Toronto, November 2019
(8) First prize for the International "My Nordic Project" competition	-	Reykjavik, Iceland, October 2019

(7) First prize for the “My Nordic Project” competition	-	Quebec City, Institut Nordique du Québec, May 2019
(6) QCBS Excellence Award for the DIOXIN conference	1,213 CAD	Kyoto, Japan, 2019-2022
(5) SETAC Student Training Exchange Opportunity Award	1,000 USD	NWRC – ECCC, Ottawa, May-June 2023
(4) SETAC YES travel grant	400 USD	Belgium, February 2019
(3) Graduate Excellence Award by the Natural Resources Department of McGill University	15,750 CAD	2019-2022
(2) Prof. MB Collins Best Presentation Award for Master Thesis Defense	-	Sep-18
(1) Bourse à la mobilité du ministère de l’éducation et de l’enseignement supérieur (France)	5,000 EUR	2016-2018

Scientific outreach activities

May 2020- Now	Founder, main author (50+ pieces to date), infographic designer, and editor-in-chief of whalescientists.com ; an online magazine by early-career researchers for the public. We explain and debunk marine mammal science and help aspiring whale scientists find opportunities in their early career. We also feature the career paths of various early-career marine mammal scientists to inspire future scientists and encourage the celebration of early-career researchers. <i>Whale Scientists</i> has 20+ writers and 15-30K monthly visitors. https://whalescientists.com/author/anaisremili/
August 2024	I was invited to give a talk to the public for The Whale Museum's 2024 Global Orca Workshop : North Atlantic killer whales: not just black or white!
April 2024	I was invited to create and deliver a workshop in science communication and graphic presentation of science, Icelandic Ecological Society meeting 2024.
April 2024	Invited to give a talk to the public for The Whale Museum's 2024 Virtual Gear Up Workshop for Marine Naturalists
January 2024	I visited secondary schools in Quebec through McGill’s “Hot Science, Cool Talks” program, I shared insights about our Canadian whales, sparking conversations on the importance of their protection among the next generation.
October 2023	Delivered TED talk at the TEDxCape May 2023 conference, in Cape May, NJ, USA. I was invited by the organization committee to deliver this talk in person.
May 2023	Organized and delivered a workshop about science communication for early-career researchers for the Beluga Symposium organized by the University of Quebec in Montreal (bilingual workshop)
April – June 2023	Organized and hosted the third season of Bay Cetology’s Cetacean Sessions , a free biweekly seminar series about cetacean research aimed to the public. The season I organized only focused on new research outputs from early-career researchers.
August 2022	Invited expert at the Science communication & Media panel at the Society of Marine Mammalogy 24 th Biennial conference in Palm Beach, Florida

- April 2022 Created and delivered a workshop about science communication: Communicate your findings to the public for early-career scientists. Audience: ~25 early-career researchers at the European Cetacean Society conference (online)
- December 2021 Interview by “Let’s talk science” to create the whale researcher career profile (Bilingual article), <https://letstalkscience.ca/careers/anais-remili>
- June 2021 Organized ComSciCon Quebec 2021, a scientific communication conference initiated by Harvard to help early-career researchers engage in science communication.
- May 2021 Invited expert for « 24 Heures de Science du Québec » (government-sponsored science outreach event) with Sciences à la Carte on Twitch
- April 2020 Zoom seminars with young aspiring scientists through Ocean Research & Conservation Ireland (O.R.C.Ireland)
Interacted with Irish students about marine biology and whale research
- April 2020 Zoom seminar with French middle school class to teach young French pupils about marine mammals.

Science communication publications

- Remili A. Toxic diets: Canadian orcas face high risks of pollution-related health effects. The Conversation. October 2023, available online via: <https://theconversation.com/toxic-diets-canadian-orcas-face-high-risks-of-pollution-related-health-effects-216324>
- Remili A. Analyzing the fat of killer whales reveals what they eat. The Conversation. April 2023, available online via: <https://theconversation.com/analyzing-the-fat-of-killer-whales-reveals-what-they-eat-203497> (Bilingual article)
- Remili A. Why are baby belugas born brownish-grey before changing color? Baleines en Direct. June 2022, available online via: <https://baleinesendirect.org/en/pourquoi-les-bebes-belugas-naissent-ils-caffe-au-lait-avant-de-changer-de-couleur/> (Bilingual article)
- Remili A. Qu’est-ce que ça mange, les épaulards?. Baleines en Direct. May 2022, available online via: <https://baleinesendirect.org/quest-ce-que-ca-mange-les-epaulards/> (Bilingual article)
- Remili A. La vie après la mort des baleines. Quebec Science. June 2020, available online via: <https://www.quebecscience.qc.ca/sciences/vie-apres-mort-baleines/> (in French)

Curated from *Whale Scientists* (out of 50+ publications):

- Remili A. Banned contaminants are still affecting whales in Eastern Canada. Whale Scientists. October 2024, available online via: <https://whalescientists.com/canadian-whales-contaminants/>
- Remili A. You can stop calling North Atlantic killer whales type 1 and type 2. Whale Scientists. August 2022, available online via: <https://whalescientists.com/north-atlantic-killer-whales/>

- Remili A. Why Should Early-career Scientists Engage in Science Communication?. Whale Scientists. May 2022, available online via: <https://whalescientists.com/science-communication/>
- Remili A. Preying on marine mammals might be threatening the survival of Icelandic orcas. Whale Scientists. March 2021, available online via: <https://whalescientists.com/icelandic-orcas/>

In the media

September 2024	Featured in Quebec Science “ Les orques méconnues – et menacées – de l’Atlantique Nord ” to explain the contamination threat to North Atlantic killer whales (available in English here)
June 2024	Crafted a Reel for McGill's social to take viewers on a trip to Iceland with me (virtually) to sample killer whales and follow the sample from the sea to the lab.
April 2024	McGill News: “ Anaïs Remili receives President's Prize for unparalleled commitment to science communication on whale diets ”
February 2024	Interviewed for the youth magazine “Les Explorateurs” for a feature double page called “L’amie des épaulards” or “Orca’s friend”, featuring my work to a 6-9 years old audience.
November 2023	Interviewed by Mongabay for “ North Atlantic orcas reveal the troubling persistence of toxic ocean pollutants ”
November 2023	Interview for radio show “ Je vote pour la Science ” by Agence Science Presse in French to discuss the impact of Climate change on our Canadian whales, and the implications for the COP28 meeting.
October 2023	Invited by Jean François Bouthillette to discuss by research on North Atlantic killer whales in the Années lumière Radio Canada show.
October 2023	Invited by Bob McDonald to talk about my research on North Atlantic killer whales in Quirks and Quarks , CBC Radio's award-winning weekly science program.
October 2023	Interviewed by National Geographic for a story about my research on North Atlantic killer whales: You are what you eat – and for orcas, that’s bad news.
June 2023	Interview by Quebec news “ La Presse ” to discuss the killer whale “attacks” in Spain.
April 2023	Various media appearances to promote our research on North Atlantic killer whales’ diets.
June 2022	Podcast Interview by Breaching Extinction on Orca Diet Estimates and Scientific Accessibility https://anchor.fm/breachingextinction/episodes/103--Orca-Diet-Estimates-and-Scientific-Accessibility-e1kd4si
May 2022	Remili recognized as Pricipal's Prize runner-up, McGill University News and Events, https://www.mcgill.ca/animal/channels/news/remili-recognized-pricipals-prize-runner-339537

- May 2022 Press release by McGill University: Unlocking the secrets of killer whale diets and their role in climate change, <https://phys.org/news/2022-05-secrets-killer-whale-diets-role.html> (Bilingual article)
- May 2022 Radio interview with Radio Canada about the decline of whale populations around Canada (in French) <https://ici.radio-canada.ca/ohdio/premiere/emissions/bonjour-la-cote/segments/entrevue/401775/baleines-declin-pays-anais-remili-universite-mcgill>
- August 2021 A whale of a website: Grad student examines effects of pollutants on marine mammals, shares insights with public, on the McGill frontpage, <https://www.mcgill.ca/channels/article/whale-website> (Bilingual article)
- May 2021 Press release by McGill University: PCB contamination in Icelandic orcas: a matter of diet, <https://www.mcgill.ca/newsroom/channels/news/pcb-contamination-icelandic-orcas-matter-diet-330886> (Bilingual article)
- March 2021 Podcast Interview by Super Spécialiste in Quebec for the killer whale episode (in French) <https://podcasts.apple.com/ca/podcast/les-orques-%C3%A9paulards-avec-ana%C3%AFs-remili/id1548552261?i=1000514969194>
- March 2020 Video Interview for Cabine de Recherche – Savoir Média (in French), <https://savoir.media/cabine-de-recherche/clip/anais-remili>

Committees and associations

- November 2024 – Present Early-career member for the marine mammal subcommittee of the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) – *Application opens in November.*
- October 2023 – Present Member of the SETAC Wildlife Ecotoxicology Interest Group Steering Committee
- September 2021 – September 2023 Member of the Natural Resource Sciences Graduate Student Committee
- October 2020 – October 2021 Communications chair for ComSciCon QC, a francophone scientific communication organisation initiated by Harvard to help early-career researchers engage in science communication.
- October 2014 – October 2015 Secretary of the French National Council of Scientific Students (FNEB) Communication with fellow scientists; Leadership, management. Representation of students in politics.
- October 2013 – October 2014 President of the Biology students Organization in UCBL Leadership, management. Event planning, advertising. Representation of students in university politics.

Memberships

- 2022 – present The Wildlife Society (TWS)
- 2020 – present Macdonald Campus Women in Science (Mac-WIS)
- 2019 – present Society for Marine Mammalogy (SMM)
- 2018 – present Society of Environmental Toxicology and Chemistry (SETAC)
- 2017 – present European Cetacean Society (ECS)

Teaching

- January 2020 – April 2023 Teaching assistant and guest lecturer for the winter ENV-301 Environmental Research Design in Quantitative Research at McGill University for Professor Jeffrey Cardille and Mr. Geoffrey Garver: *I oversaw designing and delivering the quantitative analyses part of the curriculum.*
- September 2020 – December 2023 Teaching assistant and guest lecturer for the fall ENV-301 Environmental Research Design in Quantitative Research at McGill University for Professor Raja Sengupta and Professor Christopher Barrington-Leigh. *I oversaw designing and delivering the quantitative analyses part of the curriculum. I also gave an invited lecture on my own research.*
- April 2020 Zoom seminar with French middle school class. Taught a class about Marine Mammal Ecotoxicology
- February 2020 Teaching seminar, NRS Department, McGill University. Taught a class about Marine Mammal Ecotoxicology
- September 2012 – July 2015 English Tutor employed by University Claude Bernard, Lyon I. Taught conversational English to French and International students. (*100+ hours*)

Academic mentoring

- September 2024 – Present Carys Gallilee, Master's program
I am Carys' co-supervisor at Simon Fraser University. Carys is studying the diet composition of Northern Resident killer whales in BC waters using quantitative fatty acid signature analysis.
- January 2024 – Present Victorine Lambert, Master's program
I am Victorine's co-supervisor at McGill University. Victorine is studying the feeding ecology of Arctic killer whales using compound-specific fatty acid $\delta^{13}C$ values in skin biopsies.
- May 2022 – September 2023 Ambar Maldonado Rodriguez, Honours project
I was Ambar's co-supervisor for her honours project at McGill University. Ambar investigated the ecology of cetaceans off Eastern Canada inferred from fatty acid signatures. This project resulted in one published peer-reviewed publication, and two manuscripts in prep.
- September 2020 – April 2021 Rose Lacombe, Honours project
I was Rose's co-supervisor on her project at McGill University. Rose was studying the impact of storage on fatty acid degradation. This project resulted in a peer-reviewed publication.

Academic Services

Session chair for SETAC Europe 2024: Assessing and Predicting the Impact of Chemical Pollution on Marine Mammals: Challenges to Be Overcome, Future Prospects, and Conservation Strategies. (Session co-chairs: Dr. Antoine Simond, Dr. Krishna Das, Dr. Rune Dietz).

Journal Reviews

I reviewed over 20 publications for various journals: Polar Biology, Environmental Science & Technology, Scientific Reports, Science of the Total Environment, Environmental Toxicology and Chemistry, Frontiers in Marine Science, Chemosphere, Methods in Ecology and Evolution, etc.

Credentials

2016	Marine Mammal Observer, CIMA Research Foundation
2023	Marine Basic First Aid and CPR/AED Level A, Canadian Red Cross
2024	Workplace Hazardous Materials Information System certificate updated