

# Xavier MOUY

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<https://xaviermouy.weebly.com>

## EDUCATION

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- 2016-present**      **Ph.D. candidate in Earth and Ocean Sciences**  
University of Victoria, Victoria, Canada.  
Thesis: Fish bioacoustics: characterization of fish sounds in British Columbia, Canada.
- 2004-2007**      **M.Sc. in Oceanography (with distinction)**  
University of Québec at Rimouski, Institute of ocean sciences (ISMER), Rimouski, Canada.  
Master's thesis: Automatic detection of whale calls and real-time implementation.
- 2001-2004**      **B.Sc. in Acoustics, Signal Processing and Vibration**  
Le Mans Université, Le Mans, France.  
- Licence professionnelle de mécanique : Ingénierie Acoustique et Vibratoire  
- DEUST Vibration, Acoustique et Signal  
Projects: Design and development of an opto-acoustic transducer.  
Design and development of a microphone with an adjustable directivity.

## SKILLS

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- Science:**
- Digital signal processing, machine learning, automatic signal detection.
  - Passive acoustic localisation algorithms.
  - Underwater and airborne acoustic modeling (Bellhop, RAM, Cadna, CATT-Acoustic).
  - Acoustic noise measurements and analysis.
  - Processing of high frequency active sonar data.
  - Acquisition, decoding and processing of Automatic Identification System (AIS) data.
  - Video processing.
- Field work:**
- Organisation and management of field measurement campaigns on water or on land.
  - Design, deployment, retrieval, and maintenance of oceanographic moorings.
  - Extensive experience with acoustic recorders (AURAL, AMAR, SoundTrap, Sound Devices).
- Computer:**
- Windows, Linux.
  - Python, Matlab.
  - Audition/Cool Edit Pro, Ishmael, Pamguard, Raven, Syrinx, SpectraLab.
  - LaTeX, Microsoft Office Suite.
- Language:**
- English (fluent).
  - French (fluent, native language).
  - German (scholastic).

## PROFESSIONAL EXPERIENCE

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- May 2007 – present**      **Project scientist, Acoustics**  
*JASCO Applied Sciences (Victoria, British Columbia, Canada) from 2010 to present*  
*JASCO Applied Sciences (Halifax, Nova Scotia, Canada) from 2007 to 2010*  
Responsibilities:
- Design, development, and testing of novel methods for passive acoustic monitoring of marine mammals (detection, classification, and localisation)
  - Noise measurements.
  - Soundscape analysis.

- Project management.
- Writing of scientific reports and articles.
- Preparation of systems for field trials and acceptance tests.
- Work at sea.

Selected projects:

- PortListen™ software (2015-2016): Co-creator of the PortListen™ web software that processes, visualizes, shares, and analyzes passive acoustic data in real-time on the web (see Mouy et al. 2015).
- *Port of Vancouver Listening Station (2014-2016)*: Leading the development of the software suite allowing to detect in real-time vocalizations from killer whale, humpback whale, Pacific white-sided dolphin, and fish, measure ambient noise, and automatically measure source level from vessels transiting in the Strait of Georgia.
- *Chukchi Sea Whale Migration Study (2007-2015)*: Developed novel methods for the automatic detection and classification of bowhead whales, belugas, and walrus sounds in the Chukchi Sea. Developed a technique allowing to localize walrus in 2D using a single hydrophone.
- *Sound Source Verifications (2007-2016)*: Measured and analysed sound from seismic exploration activities. Definition of safety zones for whales and pinnipeds based on American/Canadian regulations.

**Oct 2006 – Mar 2007 Research Assistant**

*Department of Fisheries and Oceans Canada (Mont-Joli, Québec, Canada).*

Responsibilities:

- Development of a noise measurement software.
- Analysis the temporal and spatial variability of the anthropogenic noise in the St. Lawrence Estuary.

**Jun – Dec 2006**

**Research Assistant**

*Underwater acoustics lab, University of Québec at Rimouski (Rimouski, Québec, Canada).*

Responsibilities:

- Analysis of passive acoustic data collected by the research program ArcticNet.
- Development of signal processing methods for the automatic detection of marine mammal calls in underwater recordings from the Arctic Ocean.
- Bibliographic review of DIFAR systems for passive acoustic localisation of marine mammals

**Mar – Jun 2004**

**Internship**

*Underwater acoustics lab, University of Québec at Rimouski (Rimouski, Québec, Canada).*

Responsibilities:

- Development and testing of algorithms for the automatic recognition of blue whale calls.

**Apr – Aug 2003**

**Internship**

*Rouch Acoustique (Béziers, France)*

Responsibilities:

- Measurement and analysis of environmental and building noise.
- Modelling of urban noise.
- Writing of technical reports.

**PEER-REVIEWED PUBLICATIONS**

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Arranged chronologically.

20. Booy, K. V., **Mouy, X.**, Ferguson, S. H., and Marcoux, M., 2021. "Spatio-temporal summer distribution of Cumberland Sound beluga whales (*Delphinapterus leucas*) in Clearwater Fiord, Nunavut, Canada," Arctic Science e-First. <https://doi.org/10.1139/as-2019-0031>.
19. Insley, S. J., Halliday, W. D., **Mouy, X.**, and Diogou, N., 2021. "Bowhead whales overwinter in the Amundsen Gulf and Eastern Beaufort Sea," R. Soc. Open Sci. 8, 202268. <https://doi.org/10.1098/rsos.202268>.

18. **Mouy, X.**, Black, M., Cox, K., Qualley, J., Mireault, C., Dosso, S., and Juanes, F., 2020. "FishCam: A low-cost open-source autonomous camera for aquatic research," *HardwareX* 8, e00110. <https://doi.org/10.1016/j.ohx.2020.e00110>.
17. Halliday, W. D., Pine, M. K., **Mouy, X.**, Kortsalo, P., Hilliard, R. C., Insley, S. J., 2020. "The coastal Arctic marine soundscape near Ulukhaktok, Northwest Territories, Canada," *Polar Biology* 43, 623–636. <https://doi.org/10.1007/s00300-020-02665-8>.
16. Halliday, W. D., Scharffenberg, K., MacPhee, S., Hilliard, R. C., **Mouy, X.**, Whalen, D., Loseto, L. L., and Insley, S. J., 2019. "Beluga Vocalizations Decrease in Response to Vessel Traffic in the Mackenzie River Estuary," *Arctic* 72, 337-346. <https://doi.org/10.14430/arctic69294>.
15. Burnham, R.E., Duffus, D.A., and **Mouy, X.**, 2019. "The presence of large whale species in Clayoquot Sound and its offshore waters," *Continental Shelf Research* 17, 15-23. <https://doi.org/10.1016/j.csr.2019.03.004>.
14. Frouin-Mouy, H., **Mouy, X.**, Berchok, C.L., Blackwell, S.B., and Stafford, K.M., 2019. "Acoustic occurrence and behavior of ribbon seals (*Histiophoca fasciata*) in the Bering, Chukchi, and Beaufort seas," *Polar Biology* 42, 657–674. <https://doi.org/10.1007/s00300-019-02462-y>.
13. Halliday, W.D., Pine, M.K., Insley, S.J., Soares, R.N., Kortsalo, P., and **Mouy, X.**, 2019. "Acoustic detections of Arctic marine mammals near Ulukhaktok, Northwest Territories," *Canadian Journal of Zoology* 97, 72–80. <https://doi.org/10.1139/cjz-2018-0077>.
12. **Mouy, X.**, Rountree, R., Juanes, F., and Dosso, S., 2018. "Cataloging fish sounds in the wild using combined acoustic and video recordings," *Journal of the Acoustical Society of America* 143, EL333-EL339. <https://doi.org/10.1121/1.5037359>.
11. Burnham, R.E., Duffus, D.A., and **Mouy, X.**, 2018. "Gray Whale (*Eschrichtius robustus*) Call Types Recorded During Migration off the West Coast of Vancouver Island," *Front. Mar. Sci.* 5, 1-11. <https://doi.org/10.3389/fmars.2018.00329>.
10. Archer, S.K., Halliday, W.D., Riera, A., **Mouy, X.**, Pine, M.K., Chu, J.W.F., Dunham, A., Juanes, F., 2018. "The first description of a glass sponge reef soundscape reveals fish calls and elevated sound pressure levels," *Marine Ecology Progress Series* 595, 245-252. <https://doi.org/10.3354/meps12572>.
9. Halliday, W.D., Insley, S.J., de Jong, T., and **Mouy, X.**, 2017. "Seasonal patterns in acoustic detections of marine mammals near Sachs Harbour, Northwest Territories," *Arctic Science* 4, 259-278. <https://doi.org/10.1139/AS-2017-0021>.
8. Burnham, R.E., Palm, R.S., Duffus, D.A., **Mouy, X.**, and Riera, A., 2016. "The combined use of visual and acoustic data collection techniques for winter killer whale (*Orcinus orca*) observations," *Global Ecology and Conservation* 8, 24-30. <https://doi.org/10.1016/j.gecco.2016.08.001>.
7. Frouin-Mouy, H., **Mouy, X.**, Martin, B., and Hannay, D., 2016. "Underwater acoustic behavior of bearded seals (*Erignathus barbatus*) in the northeastern Chukchi Sea, 2007–2010," *Marine Mammal Science* 32, 141–160. <https://doi.org/10.1111/mms.12246>.
6. **Mouy, X.**, Mouy, P.A., Hannay, D., and Dakin, T., 2015. "JMesh - A Scalable Web-Based Platform for Visualization and Mining of Passive Acoustic Data," in *Data Mining Workshop (ICDMW), 2015 IEEE International Conference on*, pp.773-779, 14-17 Nov. 2015. <https://doi.org/10.1109/ICDMW.2015.193>.
5. Hannay, D., Delarue, J., **Mouy, X.**, Martin, B., Leary, D., and Oswald, J., 2013. "Marine mammal acoustic detections in the northeastern Chukchi Sea, September 2007–July 2011," *Continental Shelf Research* 67, 127-146. <https://doi.org/10.1016/j.csr.2013.07.009>.
4. **Mouy, X.**, Hannay, D., Zykov, M., and Martin, B., 2012. "Tracking of Pacific walrus in the Chukchi Sea using a single hydrophone," *Journal of the Acoustical Society of America*. 131, 1349-1358. <https://doi.org/10.1121/1.3675008>.
3. **Mouy, X.**, Bahoura, M., and Simard, Y., 2009. "Automatic recognition of fin and blue whale calls for real-time monitoring in the St. Lawrence," *Journal of the Acoustical Society of America* 126, 2918-2928. <https://doi.org/10.1121/1.3257588>.
2. **Mouy, X.**, Leary, D., Martin, B., and Laurinolli, M., 2008. "A comparison of methods for the automatic classification of marine mammal vocalizations in the Arctic," *New Trends for Environmental Monitoring Using Passive Systems*, 2008. <https://doi.org/10.1109/PASSIVE.2008.4786984>.
1. Simard, Y., Bahoura, M., Park, C.W., Rouat, J., Sirois, M., **Mouy, X.**, Seebaruth, D., Roy, N., and Lepage, R., 2006. "Development and experimentation of a satellite buoy network for real-time acoustic localization of whales in the St. Lawrence," *OCEANS* 2006. <https://doi.org/10.1109/OCEANS.2006.307052>.

## BOOK CHAPTER

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- Mouy, X.**, Oswald, J., Leary, D., Delarue, J., Vallarta, J., Rideout, B., Mellinger, D., Erbe, C., Hannay, D., and Martin, B., 2013. "Passive Acoustic Monitoring of Marine Mammals in the Arctic" (Chapter 9). *In: Detection, Classification and Localisation of Marine Mammals using Passive Acoustics: 2003 – 2013, 10 years of International Research*. Adam, O., and Samaran, F. (eds.), Dirac NGO, Paris, France, pp. 185-224.

## CONFERENCE PROCEEDINGS

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8. Rountree, R., Burchard, K. A., Goudey, C. A., **Mouy, X.**, and Juanes, F., 2020. "Passive Acoustic Monitoring of Haddock in the Gulf of Maine: Preliminary Results," Proc. Mtgs. Acoust. 37, 070011. <https://doi.org/10.1121/2.0001257>.
7. De Clerck, S., Samarra, F. I. P., Svavarsson, J., **Mouy, X.**, and Wensveen, P.J., 2020. "Noise influences the acoustic behavior of killer whales, *Orcinus orca*, in Iceland," Proc. Mtgs. Acoust. 37, 040003. <https://doi.org/10.1121/2.0001219>.
6. Hannay, D.E., **Mouy, X.**, and Li, Z., 2016. "An automated real-time vessel sound measurement system for calculating monopole source levels using a modified version of the ANSI/ASA S12.64-2009," Canadian Acoustics 44, 166-167. <https://jcaa.caa-aca.ca/index.php/jcaa/article/view/3002/0>.
5. Riera, A., Rountree, R.A, **Mouy, X.**, Ford, J.K., and Juanes, F., 2016. "Effects of anthropogenic noise on fishes at the SGaan Kinghlas-Bowie Seamount Marine Protected Area," Proc. Mtgs. Acoust. 27, 010005. <https://doi.org/10.1121/2.0000245>.
4. Dewey, R., Dakin, T., **Mouy, X.**, and Urazghildiiev, I., 2015. "A regional hydrophone network: Monitor, detect and track," 2015 Underwater Acoustics Conference and Exhibition. Crete, Greece.
3. Moloney, J., Hillis, C., **Mouy, X.**, Urazghildiiev, I., and Dakin, T., 2014. "Autonomous Multichannel Acoustic Recorders on the VENUS Ocean Observatory," IEEE Oceans - St. John's, Sep 14-19, 1-6 pp. <https://doi.org/10.1109/OCEANS.2014.7003201>.
2. Martin, B., Kowarski, K., **Mouy, X.**, and Moors-Murphy, H., 2014. "Recording and identification of marine mammal vocalizations on the scotian shelf and slope," IEEE Oceans - St. John's, Sep 14-19, 1-6 pp. <https://doi.org/10.1109/OCEANS.2014.7003212>.
1. Racca, R., Delarue, J., Frouin-Mouy, H., Hannay, D.E., Martin, B., **Mouy, X.**, and Wladichuk, J., 2014. "Acoustic monitoring of marine mammals in the Chukchi Sea – Three case studies," 2014 Underwater Acoustics Conference and Exhibition. Rhodes, Greece, 1-6.

## SELECTED TECHNICAL REPORTS

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- Mouy, X.** 2021. Developing an Automatic Fish Sound Detector for British Columbia. Document 02308, Version 1.0. Technical report by JASCO Applied Sciences for Fisheries and Oceans Canada.
- Mouy, X.**, Wladichuk, J.L., and Austin, M.E., 2020. Modelling Acoustic Detection Ranges of Resident Killer Whales. Document 02241, Version 1.0. Technical report by JASCO Applied Sciences for Fisheries and Oceans Canada.
- Frouin-Mouy, H. and **Mouy, X.**, 2020. Analysis of narwhal calls recorded off Bruce Head, Nunavut: Exploratory analysis of mother-calf contact calls based on visual and passive acoustic data. Document 02245, Version 1.0. Technical report by JASCO Applied Sciences for Golder Associates Ltd.
- Mouy, X.**, Kowarski, K., Küsel, E.T., Maxner, E., Frouin-Mouy, H., and Austin, M., 2019. Passive Acoustic Analysis of Hydrophone Data: Gwaii Haanas National Park Reserve and Haida Heritage Site. Technical report by JASCO Applied Sciences for Parks Canada.
- Austin, M., and **Mouy, X.**, 2018. Modelling Acoustic Detection Ranges of Southern Resident Killer Whales. Technical report by JASCO Applied Sciences for Fisheries and Oceans Canada.
- McPherson, C., Delarue, J., Whitt, C., Maxner, E., Kowarski, K., and **Mouy, X.**, 2017. Acoustic Monitoring in the Cook Strait Region, New Zealand. Technical report by JASCO Applied Sciences for NIWA.
- Mouy, X.**, Frouin-Mouy, H., Gosselin, J., Delarue, J., and Martin, B., 2013. Shell LNG Underwater Noise Studies: Field Measurements Report. Technical report by JASCO Applied Sciences for Shell Canada.
- Mouy, X.**, MacGillivray, A., Vallarta, J., Martin, B., and Delarue, J., 2012. Ambient Noise and Killer Whale Monitoring near Port Metro Vancouver's Proposed Terminal 2 Expansion Site: July–September 2012. Technical report by JASCO Applied Sciences for Hemmera.
- Delarue, J., Martin, B., **Mouy, X.**, MacDonnell, J., Vallarta, J., Chorney, N. E., and David Hannay, 2011. Northeastern Chukchi Sea Joint Acoustic Monitoring Program 2009-2010. Technical report by JASCO Applied Sciences for ConocoPhillips Company, Shell Exploration & Production Company, and Statoil USA E&P, Inc.
- Mouy, X.**, McCrodan, A., and Hannay, D., 2011. GXT 2010 SPAN and OBC Acoustic Characterization of Seismic Sources - Comprehensive Report. Technical report by JASCO Applied Sciences for GX Technology.
- Mouy, X.**, and Zykov, M., 2009. Underwater Acoustic Monitoring of Pile Driving Activities in the Penobscot River, Bangor, Maine. Technical report by JASCO Applied Sciences for RMT Inc.
- Mouy, X.**, Hannay, D., 2008. Pressure Monitoring of Trenching Blast for Pembina's Athabasca River Pipeline Crossing. Technical report by JASCO Applied Sciences for Pembina Pipeline Corporation.
- Mouy, X.**, Warner, G., MacDonnell, C., Hannay, D., 2008. Underwater Sound Level Measurements of Research Vessel from the Shell 2008 Operations in Prudhoe Bay, Alaska. Technical report by JASCO Applied Sciences for Shell Exploration & Production Company.
- Mouy, X.**, MacDonnell, J., Hannay, D., 2007. Acoustic Level Measurements of Airgun Sources from Shell's 2007 Chukchi Sea Seismic Program. Technical report by JASCO Applied Sciences for Shell Exploration & Production Company.

## SELECTED CONFERENCE PRESENTATIONS

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- Mouy, X.**, Black, M., Cox, K., Qualley, J., Mireault, C., Dosso, S., and Juanes, F., 2019. "Identifying fish sounds of British Columbia with an autonomous audio and video array," 178<sup>th</sup> Meeting of the Acoustical Society of America, San Diego, CA. Dec. 2-7.
- Mouy, X.**, Cabrera De Leo, F., Juanes, F., and Dosso, S., 2018. "Acoustic estimation of the biodiversity of fish and invertebrates," 4<sup>th</sup> World Conference on Marine Biodiversity, Montreal, QC, May 13-16.
- Mouy, X.**, Rountree, R., Burchard, K., Juanes, F., and Dosso, S., 2018. "Analysis of Haddock (*Melanogrammus aeglefinus*) sounds recorded in the Northwest Atlantic," 175<sup>th</sup> Meeting of the Acoustical Society of America, Minneapolis, MN, May 7-11. Best student paper award in animal bioacoustics.
- Mouy, X.**, 2016. "Possible fish sounds recorded in the Salish Sea," 2016 Salish Sea Ecosystem Conference, Vancouver, Canada, April 14-16.
- Mouy, X.**, Ford, J., Pilkington, J., Kanes, K., Riera, A., Dakin, T., and Mouy, P. A., 2015. "Automatic Marine Mammal Monitoring off British Columbia, Canada," 7<sup>th</sup> International DCLDE Workshop, La Jolla, CA, July 13-16.
- Mouy, X.**, Delarue, J., Martin, B., and Hannay D., 2012. "Pacific Walrus vocal repertoire in the northeastern Chukchi Sea: call type description and relative proportion in time and space," 164<sup>th</sup> Meeting of the Acoustical Society of America, Kansas City, Missouri, 23 -26 Oct.
- Mouy, X.**, Oswald, J. N., Delarue, J., Leary, D., Hannay, D., Martin, B. S., Mellinger, D. K., 2011. "Development of a grunt detector for monitoring walruses (*Odobenus rosmarus divergens*) in the eastern Chukchi Sea," 19<sup>th</sup> Biennial Conference on the Biology of Marine Mammals, Tampa, Florida, 27 Nov – 2 Dec.

## OPEN-SOURCE HARDWARE AND SOFTWARE

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- FishCam*: A low-cost open-source autonomous camera for aquatic research. CC-BY Attribution 4.0 International License. <https://osf.io/f6rwt>
- FishSound Finder*: Software for detecting fish sounds automatically. BSD-3-Clause License. <https://fishsound-finder.readthedocs.io>.
- Ecosound*: Python package to facilitate the analysis of passive acoustic data (in progress). BSD-3-Clause License. <https://ecosound.readthedocs.io>.

## AWARDS / SCHOLARSHIPS

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- 2020** - Second place of the Three Minute Thesis (3MT) competition, University of Victoria.
- 2019** - UVic Graduate Award, University of Victoria.
- 2018** - Best Student Paper Award in Animal Bioacoustics (second prize), Acoustical Society of America.
- 2018** - Underwater acoustics and signal processing student travel award, Canadian Acoustical Association.
- 2018** - Recipient of a Trident underwater drone, Science Exploration Education Initiative.
- 2017** - UVic President's Research Scholarship, University of Victoria.
- 2017** - NSERC Postgraduate Doctoral Scholarship.
- 2016** - MITACS Accelerate fellowship.
- 2006** - Fessenden graduate student prize in underwater acoustics, Canadian Acoustical Association.

## TRAINING

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- 2019** - Scientific diving (theory), Canadian Association for Underwater Science.
- 2019** - Dive accident management, University of Victoria.
- 2019** - Oxygen first aid for SCUBA diving injuries, Divers Alert Network.
- 2018** - Foundations of Project Management, Mitacs.
- 2018** - Emergency First Aid for industry (OFA level 1 equivalent), St. John Ambulance.
- 2018** - Workplace Hazardous Materials Information System (WHMIS).
- 2015** - Basic Offshore Safety Induction & Emergency Training (BOSIET), Survival Systems Training Limited.
- 2010** - Basic Survival Training (BST), Survival Systems Training Limited.
- 2010** - Marine Emergency Duties A1, Survival Systems Training Limited.
- 2010** - DONUT Famil./Skyscape/Helicopter Underwater Egress Training, Survival Systems Training Limited.
- 2010** - Helicopter Underwater Escape Breathing Apparatus training, Survival Systems Training Limited.

## TEACHING / MENTORING

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- Supervised two undergraduate students (Terry, M., and Thompson, M.) for their coop term with Ocean Networks Canada (May-Aug 2021). Research topics: Analysis of passive and active acoustic data from the Fish Acoustics Experiment in the Strait of Georgia.

- Supervised two undergraduate students (Evin, C. and Woodburn, E.) for the course Directed Studies and Research in Marine Biology (BIOL490D) at the University of Victoria (Sep-Dec 2019). Research topics: Underwater acoustics and soundscape analysis.
- Guest lecturer in the course Coastal Conservation (GEOG304) at the University of Victoria (Jan 2019). Lecture title: "Passive Acoustics for Coastal Conservation".
- Mentoring MSc students from UBC (Koot, K., 2012), Univ. Western Washington (Nicholich, K., 2013), Univ. of Manitoba (Booy, K., 2018), and Univ. of Victoria (Kanes, K., 2018) by helping them acquire the necessary knowledge to analyse and interpret their acoustic data.

## **SCIENTIFIC OUTREACH**

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- Organizer of the *Pint of Science* annual outreach festival in Victoria, BC. (2018-2021).
- Featured guest on the *Lumières* webinar "Bioacoustics - Voices of the Ocean" (Jun. 2020).
- Subject matter expert in the educational show *OrcaLive* by LiveIt, broadcasted live in 74 French immersion classrooms across British Columbia (Oct. 2018, Feb. 2019).
- Speaker for the organization *Skype A Scientist* to promote science (via video conferencing) in schools worldwide
- Participation to several events in local communities and schools (K-12) to promote STEM.
- Contributor to "The Let's Talk Science Challenge Student Handbook" (2016).

## **SELECTED MEDIA COVERAGE**

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- "Évaluer la santé des écosystèmes marins avec le son", Radio-Canada radio show Les années lumière, Feb. 2020
- "Xavier Mouy", Lodestar section of the Journal of Ocean Technology, Vol. 14, No. 3, 2019.
- "Le chant des poissons selon Xavier Mouy", Radio-Canada radio show Les années lumière, Sep. 2017.
- "Spying scientists listen in on fish conversations", CBC radio show Quirks & Quarks, Aug. 2017.
- "Industry in walrus territory", The Circle magazine (WWF), Jul. 2017.
- "Quiet please, the fish are flirting", Hakai Magazine, Jun. 2017.

## **OTHER RELEVANT ACTIVITIES**

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- Active member of the Acoustical Society of America:
  - o Member of the technical committee on animal bioacoustics.
  - o Member of the organizing committee for the ASA meeting in Victoria (2018) and Technical Program Organizer (TPO) for the virtual meeting Acoustics in Focus (2021).
  - o Member of the ASA ANSI standards working group S3/SC1 WG07 on Acoustic Metadata for Passive Acoustic Monitoring (2017-present).
  - o Organized and chaired special sessions at ASA meetings.
- Member of a working group led by Parks Canada to define ocean noise metrics in Canada (2018-present).
- Peer reviewer for the Journal of the Acoustical Society of America, Applied Acoustics, Marine Mammal Science, IEEE Journal of Oceanic Engineering, Scientific Reports, New Zealand Acoustics, HardwareX, and Endangered Species Research.
- Volunteering with Habitat Acquisition Trust where I share my analysis tools and my knowledge in acoustics to help them perform acoustic monitoring of endangered Western Screech Owls on Vancouver Island (2017-present).