# Ruth Joy PhD

· · · Assistant Professor · · ·

School of Environmental Science, Simon Fraser University, 8888 University Drive, Burnaby, BC, Canada, V5A 1S6

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Education	
Simon Fraser University PHD STATISTICS  • Advisor: Dr. Richard Routledge PhD Thesis: Methodology for analysing at-sea dive behaviour of a marine mammal	Burnaby, BC 2010 - 2013
Simon Fraser University	Burnaby, BC
<ul> <li>MSc STATISTICS</li> <li>Advisor: Dr. Richard Routledge</li> <li>MSc Thesis: Assessing infilling methods for missing data in spawning salmon estimates</li> </ul>	2000 - 2002
University of Victoria BSc Biology (Co-Op)	Victoria, BC 1991 - 1996
Professional Experience	
2023+ Assistant Professor, School of Environmental Science, SFU 2021-2023 Assistant Professor Practitioner, School of Environmental Science, SFU 2022-2027 Adjunct Professor, Faculty of Graduate Studies (Computer Science), Dalhousie 2020-2025 Adjunct Professor, Department of Statistics and Actuarial Science, SFU 2014-2020 Senior Marine Mammal Consultant, SMRU Consulting, St Andrews University, 2010-2013 PhD Student, Department of Statistics and Actuarial Science, SFU 2002-2010 Biostatistician, Institute for the Oceans and Fisheries, University of British Colum 2000-2002 MSc Student, Department of Statistics and Actuarial Science, Simon Fraser Univ	Scotland
Research Experience	
University of St Andrews University, SMRU Consulting Ltd. Position: Senior Research Scientist	Vancouver, BC 2014 - 2020
University of British Columbia, Institute for the Oceans and FisheriesVancouver,POSITION: BIOSTATISTICIAN2002 - 2005; 2008 - 20	
University of British Columbia, Centre for Excellence in HIV/AIDS POSITION: BIOSTATISTICIAN	Vancouver, BC 2005 - 2008
Academic Awards	
<ul> <li>Dean's Award for Excellence in Graduate Supervision, Faculty of Graduate S</li> <li>Dean's Award of Excellence in Graduate Student Mentorship, Faculty of Env</li> <li>Dean's Award of Excellence in Research, Faculty of Environment, SFU</li> </ul>	

# Grants & Scholarships \_\_\_\_\_

# More than \$7 Million in Research Grants awarded to Ruth Joy and Collaborators

2025-2026	MITACS, Awarded to MSc student, Lauren Laturnus, Port of Vancouver ECHO Program	\$90,000
2025-2026	Mitlenatch Cormorant and Gull Research, BC Parks	\$5,000
2025-2026	Institutional Research Infrastructure Support (IRIS), VPRI Office, Simon Fraser University	\$100,000
2025-2026	Digital Research Alliance of Canada, Resources for Research Groups competition	\$20,826
2025-2031	NSERC CREATE Grant, Government of Canada	\$1.65 million
2025-2026	Embassy of France in Canada Travel Fund,	\$5,000
2024-2026	Provincial Long-Term Ecological Monitoring Contract, BC Parks	\$77,000
2024-2027	CANSSI Collaborative Research Team Grant, Awarded to UBC: A. Bouchard-Côté &	\$210,000
2027 2021	T. Campbell, SFU: L. Wang & R. Joy	7210,000
2024-2025	MITACS, Awarded to MSc student, J. McNeilly, Raincoast Conservation Foundation	\$15,000
2024	MITACS, Awarded to MSc student, L. Laturnus, ECHO Program, Port of Vancouver	\$10,000
2024-2026	<b>Liber Ero Postdoc</b> , Awarded to Peter Thompson, Liber Ero Fellowship Program	\$170,000
2024	MITACS GlobaLink, Awarded to Andrea Mendez-Bye, MITACS Student Mobility	\$6,000
2023-2024	Saturna Island - Analysis of Conservation Measures, Transport Canada	\$90,400
2023-2024	Oil Spill Response, Conservation and Protection, Fisheries and Oceans Canada	\$51,750
2023-2025	MITACS, Awarded to MSc student A. Houweling, JASCO Applied Sciences	\$ 95,000
2022-2026	Canada Nature Fund, Fisheries and Oceans Canada	\$ 1.5 million
2022-2026	France Canada Research Fund and PhD Student Grant, French Embassy and Ministry of	\$ 112,000
2022 2020	Higher Education, Research and Innovation	
2022-2024	NSERC MITACS Alliance Grant, ECHO Program, Vancouver Fraser Port Authority	\$ 70,000
2022-2023	Environment and Climate Change Canada, Canadian Wildlife Service	\$36,209
2022	MITACS, Awarded to MSc student, J. Cormier, City of Port Moody	\$15,000
2022-2023	Ocean and Freshwater Science Contribution Grant, Fisheries and Oceans Canada	\$ 70,000
2021-2026	NSERC Discovery Grant, with Discovery Launch Supplement	\$ 152,500
2021-2024	NSERC DND Grant Supplement, Department of National Defence	\$ 120,000
2021	Habitat Conservation Trust Fund, BC Ministry of Environment and Climate Change	\$ 52,000
2021	MITACS, MSc student K. Baril, Saturna Island Marine Research and Education Society	\$ 15,000
2021	MITACS, MSc student A. Gheibi, Port of Vancouver ECHO Program	\$ 15,000
2021	MITACS, MSc students M. Bouvier & V. Rani, CETUS Research and Conservation Society	\$ 30,000
2020-2022	Ocean and Freshwater Science Contribution Grant, Fisheries and Oceans Canada	\$ 970,000
2020	Canadian Wildlife Service Equipment Grant, Environment and Climate Change Canada	\$ 35,000
2019-2022	Ocean and Freshwater Science Contribution Grant, Fisheries and Oceans Canada	\$ 1.1 million
2019-2020	MITACS, Awarded to MSc student L. Quayle, SMRU Consulting Ltd	\$ 60,000
2017-2020	Habitat Conservation Trust Foundation, Public Assistance Fund	\$ 7,000
2016-2019	National Geographic Society Waitt Grant, Waitt Foundation	\$ 15,000
2014-2016	Elevate Post-doctorate Fellowship, MITACS	\$ 120,000
2006-2009	Canadian Institute of Health Research Grant (R111), Health Canada	\$ 143,550

## GRADUATE SCHOLARSHIPS TO RUTH JOY

2010-2013	<b>Hakai Network Research Scholarship</b> , PhD award, Tula Foundation
2010-2012	Canadian Graduate Scholarship, PhD award, NSERC
2010-2012	<b>Provost Award of Distinction</b> , PhD award, Simon Fraser University
2000-2002	Canadian Graduate Scholarship, MSc award, NSERC
2000	<b>Graduate Entrance Scholarship</b> , MSc award, Simon Fraser University

# Graduate Student and Postdoc Supervision \_\_\_\_\_

# POSTDOCTORAL FELLOWS

2024 +	Peter Thompson, School of Environmental Science	SFU
2023 +	Bruno Padovese, School of Environmental Science	SFU
2024 - 2025	Kaitlin Palmer, School of Environmental Science	SFU
2020 - 2023	Paul Nguyen Hong Duc, Co-supervised, School of Math and Statistics, Carlton U	SFU
2019 - 2022	Marine Randon, Department of Statistics	SFU
GRADUATE	Students	
2024+	Dylan Smyth, MSc Co-supervised with Marine Biology, U Algarve	SFU
2024 +	Lauren Laturnus, MSc Co-supervised with Biological Science, SFU	SFU
2024 +	Teng-Wei Lin, PhD Statistics	SFU
2023 +	Andrea Mendez-Bye, PhD Co-supervised with Ecology Dept, U La Rochelle	SFU
2023 +	Lindsay Lalach, MSc Co-supervised with Biological Sciences	SFU
2021+	Fábio Frazão, PhD Co-supervised with Statistics and Mathematics	Dalhousie U
2024-2025	Mathias Pouly, MSc Co-supervised with Biology Dept, U Strasbourg	SFU
2023-2025	April Houweling, MSc Statistics	SFU
2024-2025	Marius Clabaux, MSc Co-supervised with Marine Ecology and Applied Data-Sciences	U Bretagne-O
2024-2025	Clément Grandidier, MSc Co-supervised with Math, Biology and Computer Science	INSA Lyon
2022-2024	Janine McNeilly, MSc Ecological Restoration	SFU
2022-2024	Sam Broadley, MSc Ecological Restoration	SFU
2022-2024	Mikayla Young, MSc Ecological Restoration	SFU
2022-2024	Rachel Fairfield Checko, MSc Ecological Restoration	SFU
2021-2023	Teng-Wei Lin, MSc Statistics	SFU
2021-2023	Joseph Cormier, MSc Ecological Restoration	SFU
2021-2023	Olivia Murphy, MSc Ecological Restoration	SFU
2021-2023	Rachel Stapleton, MSc Ecological Restoration	SFU
2020-2022	Kaitlin Baril, MSc Ecological Restoration	SFU
2020-2022	Madie Bouvier, MSc Ecological Restoration	SFU
2020-2022	Azadeh Gheibi, MSc Ecological Restoration	SFU
2020-2022	Varsha Rani, MSc Ecological Restoration	SFU
2020-2022	Rosalin Wilkin, MSc Ecological Restoration	SFU
2019-2021	Kathleen Meszaros, MSc Ecological Restoration	SFU
2019-2021	Macus Ong, MSc Ecological Restoration	SFU
2019-2021	Lucy Quayle, MSc Ecological Restoration	SFU
2018-2020	Okezi Akporuno, MSc Ecological Restoration	SFU
2018-2020	Madeleine Edmonds, MSc Ecological Restoration	SFU
2018-2020	Alex Harris, MSc Ecological Restoration	SFU

# RESEARCH ASSISTANTS

2025	Hannah Berry, Ugrad summer Research Assistant (R.A.), School of Environmental Science	SFU
2025	,	
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2024-2025	<b>Dhanvi Desai</b> , Ugrad summer R.A., Statistics	SFU SFU
2024	<b>Leah Egery-Haley</b> , Ugrad R.A., School of Environmental Science	SFU
2023-2024	Olivia Murphy, Graduate R.A., School of Environmental Science	SFU
2023	Jessiquence Tang, Ugrad summer R.A., School of Environmental Science	SFU
2023	Claudia Cristescu, Ugrad R.A., School of Environmental Science	SFU
2023	Lauren McKay, Ugrad R.A., School of Environmental Science	SFU
2022-2024	Lauren Laturnus, Ugrad R.A., School of Environmental Science	SFU
2021-2022	Laurence Cojocaru, Ugrad Co-op Student, Department of Statistics	SFU
2021	Lucy Quayle, Grad R.A., School of Environmental Science	SFU
2020-2021	Macus Ong, Grad R.A., School of Environmental Science	SFU
2020, 2021	Hoky Hsu, Ugrad Summer R.A., School of Environmental Science	SFU
2020-2021	Emma Cummings, Graduate R.A., School of Environmental Science	SFU
2025	Student & Postdoc Awards	CELL
		SFU
2025	<b>Lindsay Lalach</b> , Biological Sciences Graduate Travel and Research Award	SFU
2025 2024	Lindsay Lalach, Biological Sciences Graduate Travel and Research Award  April Houweling, Lauren Laturnus, Lucy Quayle with SGIWSN, The Nightingale Award in	SFU Raincoast Conservation
2024	Lindsay Lalach, Biological Sciences Graduate Travel and Research Award  April Houweling, Lauren Laturnus, Lucy Quayle with SGIWSN, The Nightingale Award in Ocean Engagement	SFU Raincoast Conservation Foundation
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2024 2024 2024 2024 2024-2026 2023 2023 2023 2023 2023 2022 2021	Lindsay Lalach, Biological Sciences Graduate Travel and Research Award  April Houweling, Lauren Laturnus, Lucy Quayle with SGIWSN, The Nightingale Award in Ocean Engagement  Lindsay Lalach, BISC Graduate Student Society Professional Development Grant Lindsay Lalach, Environmental Science Scholarship  April Houweling, Environmental Science Scholarship  Janine McNeilly, Faculty of Environment's Excellence in Graduate Research & Engagement  Peter Thompson, Liber Ero Postdoctoral Fellowship  Janine McNeilly, Graduate Research Award in Environmental Science  Samantha Broadley, Graduate Research Award in Environmental Science  Fabio Frazao, Ocean Networks Canada, Roy Hyndman Ocean Observing Award  Rachel Stapleton, Faculty of Environment Excellence in Graduate Research Award  Rachel Stapleton, Rudy North Academic Bursary	SFU Raincoast Conservation Foundation SFU

Service_	
SERVICE TO	THE DEPARTMENT, UNIVERSITY AND LOCAL COMMUNITY
2025	Adjudication Committee, Dean of Graduate Studies' Awards for Excellence, Member
2024-2025	Undergraduate Committee Curriculum, School of Environmental Science, Member
2024-2025	Seminar Series Committee, Member
2021-2025	Ecological Restoration Graduate Program, School of Environmental Science, Chair
2021-2024	Coastal Marine Science and Management Ugrad Curriculum Committee, Chair
2023-2024	Justice, Equity, Diversity and Inclusivity Committee, Member
2022-2025	Frontiers in Marine Science, Marine Conservation and Sustainability, Editorial Board
2022-2023	BC NoiseTracker Technical Committee , Member
2020-2023	International Biometric Society, Western North American Region (WNAR), Board Member
2020-2023	International Biometric Society, Western North American Region (WNAR), Board Member
2021-2026	Pacific WildLife Foundation, Associate Member
1999-2025	Breeding Bird Surveys/Breeding Bird Atlas, Volunteer with Bird Studies Canada
1990-2024	Christmas Bird Counts, Volunteer with National Audubon Society
2007-2017	Bat inventory for the Whistler Bioblitz, Volunteer with Whistler Naturalists
2006-2017	Public event: 'Wings on their Fingers', Volunteer with Meadowlark Nature Festival
Curriculu	m Development
2021-2024	Marine and Coastal Science and Management Program,
2021-2024	Curriculum development for cross-disciplinary undergraduate degree
Teaching	Experience
GRADUATE COURSES	
2025	EVSC 691: Ocean Bioacoustics, Instructor
2018-2023	EVSC 645: Environmental Data Analysis, Instructor
2023	INTE 7000: Acoustic Data Analysis, Instructor
2019-2022	ECO 611: Concepts of Restoration and the Biological Environment, Instructor
2019	ECO 600: Rewilding agricultural ecosystems, Instructor
Undergrai	DUATE COURSES
2025	EVSC 100: Introduction to Environmental Science, Instructor
2024-2025	EVSC 206 / 395: Coastal Marine Science, Instructor
2021 - 2025	EVSC 445: Environmental Data Analysis, Instructor
Professional Development	
CANADIAN SCIENCE ADVISORY SECRETARIAT (C-SAS) PEER REVIEW	

C-SAS regional review for Department of Fisheries and Oceans, "Seasonal distribution,

density and abundance of at-risk cetacean species in the southern Salish Sea and on Swiftsure Bank"

#### PROFESSIONAL MEMBERSHIPS

The Association of Professional Biologists of B.C., Registered Professional Biologist since Society of Marine Mammology, Member Pacific Seabird Group, Member

since 1999

### Peer-reviewed Publications.

- Lin<sup>+</sup>, T.W., M.G. Dowd and **R. Joy**. 2025. Forecasting Trajectories of Southern Resident Killer Whales with Stochastic Movement Models Incorporating Direction Modification. Ecological Modelling.
- Palmer<sup>+</sup>, K.J., E. Cummings<sup>+</sup>, K. Frasier, F. Frazão<sup>+</sup>, A. Harris<sup>+</sup>, A. Houweling<sup>+</sup>, J. Kanes, H. Klinck, H. LeBlond, A.A. Leu, L. Laturnus<sup>+</sup>, C. Matkin, O. Murphy<sup>+</sup>, H. Myers, D. Olsen, B. Padovese<sup>+</sup>, J. Pilkington, L. Quayle<sup>+</sup>, A.R. Vuibert, K. Trounce, S. Veirs, V. Veirs, J. Wladichuk, H. Yurk, and **R. Joy**. 2025. Annotated *Orcinus orca* Acoustic Dataset for Detection and Ecotype Classification. Nature: Scientific Data.
- Frazão<sup>+</sup>, F., **R. Joy** and M. Dowd. 2025. Comparing acoustic representations for deep learning-based classification of underwater acoustic signals: a case study for orca (*Orcinus orca*) vocalizations. Ecological Informatics.
- Chimienti, M., A. Kato, V. Seydi, S. Schoombie, J.T. Hinke, **R. Joy**, D. Lidgard, C. Oosthuizen, Y.P. Papastamatiou, Y. Ropert-Coudert, A. Takahashi, J.-B. Thiebot, M. Visani, M. Coustaty, T. Jeanniard du Dot. 2025. Reviewing Seas of Data: Integrating Image-Based Bio-logging and Artificial Intelligence to Enhance Marine Conservation. Methods in Ecology and Evolution.
- **Joy, R.**, K. Roessingh, K. Meszaros<sup>+</sup>, A. Miscampbell, C. Ritland, M. Hayes, G. Ivey, M. Petrula, J.B. Joy. 2025. Deciphering cryptic population structure in Western Sandhill Crane subspecies (*Antigone canadensis*) of the Pacific Flyway. Ecology and Evolution.
- Stapleton<sup>+</sup>, R., L.L.E. Cowen, G.T.W. McClelland, S.J.R. Broadley<sup>+</sup>, and **R. Joy**. 2025. Applying photogrammetry and multi-event modeling to determine effects of predation on seabird colony nest success. Endangered Species Research.
- Wilkin<sup>+</sup>, R., J. Anderson, I. Sahay, M. Ong<sup>+</sup>, S.J.R. Broadley<sup>+</sup>, M. Gonse<sup>+</sup>, G.T.W. McClelland, and **R. Joy**. 2025. Vantage point photography and deep learning methods save time in monitoring seabird nesting colonies. Ornithological Applications
- Millikin, R.L., T. Manning, **R. Joy**, D. Henderson, M. Harrison, J. Komaromi, and B. Danielson. 2025. Evaluation of a drone to map and monitor critical habitat for the Sage Thrasher, *Oreoscoptes montanus*. Drone Systems and Applications.
- Duc<sup>+</sup>, P.N.H., Campbell, D.A., Dowd, M. and **R. Joy**. 2024. Functional data analysis to describe and classify southern resident killer whale calls. Ecological Informatics, p.102841. https://doi.org/10.1016/j.ecoinf.2024.102841
- Clarke, C.M.K., V. Rani<sup>+</sup>, E. Stredulinsky, S. Toews, M. Bouvier<sup>+</sup>, D. Smyth, **R. Joy**, S.J. Thornton. 2024. Assessing the efficacy of ecological reserves: killer whale beach rubbing behaviour and vessel disturbance. Endangered Species Research.
- Ryder, M., C. Booth, C. Oedekoven, T. Marques, **R. Joy**, and D. Harris. 2023. Passive acoustic monitoring power analysis: A tool for designing an acoustic monitoring program. In: Popper, A.N., Sisneros, J., Hawkins, A.D., Thomsen, F. (eds) The Effects of Noise on Aquatic Life. Springer, Cham.
- Randon<sup>+</sup>, M., M. Dowd, and **R. Joy**. 2022. A real-time data assimilative forecasting system for animal tracking. Ecology. pe3718.
- **Joy, R.**, R. S. Schick, M. Dowd, T. Margolina, J. E. Joseph and L. Thomas. 2022. A fine-scale marine mammal movement model for assessing long-term aggregate noise exposure. Ecological Modelling. 493:109798.
- Watson, J., **R. Joy**, D. J. Tollit, S. J. Thornton, and M. Auger-Méthé. 2021. Estimating animal utilization distributions from multiple data types: A joint spatiotemporal point process framework. Annals of Applied Statistics. 15(4): 1872-1896.
- Williams, R., E. Ashe, L. Yruretagoyena, N. Mastica, M. Siple, J. Wood, **R. Joy**, R. Langrock, S. Mews, E. V. Finne. 2021. Reducing vessel noise benefits foraging in endangered killer whales. Marine Pollution Bulletin. 173:00-00.
- De Groot, K. L., A. N. Porter, A. R. Norris, A. C. Huang, and **R. Joy**. 2021. Seasonal patterns of bird-window collisions at a Pacific coast site and high vulnerability of the Varied Thrush (*Ixoreus naevius*) in winter. Ornithological Applications. 123(3): 1-15.
- Trounce, K., O. Robinson, A. MacGillivray, D. Hannay, J. Wood, D.J. Tollit, and **R. Joy**. 2020. The effects of vessel slowdowns on foraging habitat of the southern resident killer whales. Proceedings of the Meetings on Acoustics (POMA). vol. 37, no. 1, p. 070009.
- Millikin, R., **R. Joy**, J. Komaromi, M. Harrison, P. Krannitz, N. Mahony, M. Vander Haegen. 2020. Critical habitat identification of peripheral Sage Thrashers under climate change. Conservation Science and Practice. 2(12), p.e290.
- Wilson, L.J., J. Harwood, C.G. Booth, **R. Joy**, and C.M. Harris. 2020. A decision framework to identify populations that are most vulnerable to the population level effects of disturbance. Conservation Science and Practice. 2(2), p.e149.
- **Joy, R.**, D.J. Tollit, J. Wood, A. MacGillivray, Z. Li, K.Trounce and Orla Robinson. 2019. Benefits of vessel slowdowns on endangered southern resident killer whales. Frontiers of Marine Science, 6: 344-363.

- Tollit, D.J., **R. Joy**, J. Wood, A. Redden, C. Booth, T. Boucher, P. Porskamp and M. Oldreive. 2019. Effects of tidal turbine installation and operations on harbor porpoise in Minas Passage, Bay of Fundy. The Journal of Ocean Technology, 14: 22-48.
- **Joy, R.**, J. Wood, C Sparling, D. J. Tollit, A. Copping, and B. McConnell. 2018. Harbor seal behavior and avoidance of an operational tidal turbine. Marine Pollution Bulletin, 136: 92-106.
- Malinka, C., D. Gillespie, J. MacAulay, **R. Joy**, and C. Sparling. 2018. First in-situ passive acoustic monitoring for marine mammals during operation of a tidal turbine. Marine Ecology Progress Series. 590: 247-266.
- Tollit, D.J., L. Fritz, **R. Joy**, K. Miller, A. Schulze, J. Thomason, W. Walker, T. Zeppelin, and T.S. Gelatt. 2017. Diet of endangered Steller sea lions in the Aleutian Islands: New insights from DNA detections and bio-energetic reconstructions. Canadian Journal of Zoology, 95(11): 853-868.
- Ainsworth, L.M., C.B. Dean, and **R. Joy**. 2016. Zero-inflated spatial models: application and interpretation. International Symposium in Statistics 2015. Proceedings Volume on Advances and Challenges in Parametric and Non-parametric Analysis of Correlated Data. Springer New York, NY. 75 96 pp.
- **Joy, R.**, M.G. Dowd, B.C. Battaile, P.M. Lestenkof, J.T. Sterling, A.W. Trites, and R.D. Routledge. 2015. Linking northern fur seal dive behavior to environmental variables in the eastern Bering Sea. Ecosphere. 6 (5): 75. DOI 10.1890/ES14-00314.1
- Savo, V., **R. Joy**, G. Caneva, and W.C. McClatchey. 2015. Plant selection for ethnobotanical uses on the Amalfi Coast (Southern Italy). Journal of Ethnobiology and Ethnomedicine. 11(1): 58. DOI: 10.1186/s13002-015-0039-y.
- Muir, J.E., **R. Joy**, Y. Bychkov, K. Bröker, G. Gailey, V. VLadimirov, S. Starodymov and G. Gailey. 2015. Delineation of a coastal gray whale feeding area using opportunistic and systematic survey effort. Endangered Species Research. 29(2): 147-160.
- Muir, J.E., L. Ainsworth, **R. Joy**, R. Racca, Y. Bychkov, G. Gailey, V. VLadimirov, S. Starodymov, and K. Bröker. 2015. Distance from shore of gray whales during a seismic survey off Sakhalin Island, Russia. Endangered Species Research. 29(2), pp.161-178. DOI: 10.3354/esr00701
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#### **TECHNICAL & GOVERNMENT REPORTS (60)**

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- Tollit, D.J., **R. Joy**, and J. Wood. 2016. A comparison of Southern Resident killer whale response to noise from commercial vessels and whale watch boats. Prepared for the ECHO Program of Port of Metro Vancouver.
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- **Joy, R.**, B. Miller, D.J. Tollit, and J. Wood. 2014. Proposed Roberts Bank Terminal 2 Draft Technical Report: Southern Resident Killer Whale Noise Exposure Study. Prepared for Port Metro Vancouver.
- **Joy, R.** 2014. Review of The Warbler Guide by Tom Stephenson and Scott Whittle. 2013. Princeton University Press, Princeton, N.J. 560 pages. ISBN 9780691154824. Journal of Field Ornithology, 85: 108.

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- Chatwin, T.A., T. Dunlop and **R. Joy**, 2009. Pacific Great Blue Heron Population and Monitoring, Vancouver Island and the Gulf Islands in 2007 and 2008. Heron Working Group Document No. 3
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- van den Driessche, R.\*, M. Mather, L. Crampton, and T. Chatwin. 1997. An inventory of bats in Clayoquot Sound, Vancouver Island, British Columbia. Ministry of Environment Working Report No. PA-96-488-IN.
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- van den Driessche, R.\* and T. Ethier. (eds.) 1997. Standardized inventory manual for components of British Columbia's Biodiversity (Vs 1.1): Small Mammals. Resources Inventory Committee, Ministry of Environment, Lands and Parks, Victoria, BC.
- van den Driessche, R.\* and T. Ethier. (eds.) 1997. Standardized inventory manual for components of British Columbia's Biodiversity (Vs 1.1): Macrofungi including the phyla Ascomycota and Basidiomycota. Resources Inventory Committee, Ministry of Environment, Lands and Parks, Victoria, BC.
- Ethier, T. and **R. van den Driessche**\*. (eds.) 1997. Standardized inventory manual for components of British Columbia's Biodiversity (Vs 1.1): Terrestrial Arthropods. Resources Inventory Committee, Ministry of Environment, Lands and Parks, Victoria, BC.

## Invited Talks, Conference & Workshop Presentations \_

#### INVITED PRESENTATIONS

- \* mentored student/postdoc
- **Joy, R.** August 2025. Statistics, Data Science, and AI to Enrich Whale Society and Conservation: A real-time forecasting system of whale movement in a busy commercial shipping corridor. Invited Presentation at the Joint Statistical Meeting, Nashville, Tennessee.
- **Joy, R.** July 2025. Orcas on the Move: Forecasting movement of Southern Resident killer whales in the Salish Sea. Invited Presentation at the Gordon Research Conference on Movement Ecology, Ventura, California.
- **Joy, R.** June 2025. WHALES NSERC CREATE: Whale Habitat & Acoustic Learning for Ecosystem Sustainability. Pacific Ocean Neutrino Experiment (P-ONE) Collaboration Meeting. SFU Department of Physics.
- Padovese<sup>+</sup>, B., and F. Frazão<sup>+</sup>. May 2025. *Building an operational forecasting system for Southern Resident killer whales in the Salish Sea.* Invited Presentation to the Port of Vancouver, ECHO Program.

- Houweling<sup>+</sup>, A., **R. Joy** and R. Tibshirani. May 2025. *Machine Learning to Classify Southern Resident killer whale clicks in the Salish Sea*. Invited Presentation to the Port of Vancouver, ECHO Program.
- Lin<sup>+</sup>, T.-W., and P. Thompson<sup>+</sup>. February 2025. *HALLO: Building an operational forecasting system for southern resident killer whales*. Invited Presentation to the Port of Vancouver, ECHO Program.
- **Joy, R.** November 2024. Building an Operational Forecast System for Killer Whale Movement in the Salish Sea. Department of Statistics Seminar Series, UBC.
- Murphy<sup>+</sup>, O., R. Fairfield Checko<sup>+</sup>, M. Young<sup>+</sup>, L. Laturnus<sup>+</sup>, T.-W. Lin<sup>+</sup>, B. Padovese<sup>+</sup> and **R. Joy**. January 2024. *Analysis of Southern Resident Killer Whale Management Measures Surrounding Saturna Island.* Southern Resident Killer Whale Multi-Nation Tier II Meeting Hosted by Technical Whale Protection Policy West Coast Branch, Transport Canada.
- **Joy, R.** November 2023. *Orcas on the Move: Building an Operational Forecast System for SRKW Movement in the Salish Sea.* Department of Statistics Seminar Series, Simon Fraser University.
- **Joy, R**. October 2023. *Eagle-eyed predators, Cormorant colonies and Balancing on bridges*. Pacific Wildlife Research Centre Seminar Series, Environment and Climate Change Canada.
- **Joy, R.** September 2023. *Orcas on the Move: Building an Operational Forecast System for SRKW Movement in the Salish Sea*. School of Environmental Science Seminar Series, Simon Fraser University.
- **Joy, R**. June 2023. Forecasting Movement of Southern Resident Killer Whales in the Northeast Pacific. Centre National de la Recherche Scientifique, Centre d'Études Biologiques de Chizé, Université de la Rochelle, France.
- **Joy, R**. June 2023. *Forecasting Movement of Southern Resident Killer Whales in the Northeast Pacific*. École Nationale Supérieure de Techniques Avancées (ENSTA) Bretagne, France.
- **Joy, R.** March 2023. *Orca Occupancy in the Salish Sea*. Vital Signs Workshop: Aligning Canada and US Metrics and Methods for Killer Whales of the Salish Sea.
- **Joy, R.** February 2023. *Double-Crested Cormorants in the Salish Sea: Paradise Lost?* Les Ecologistes Seminar Series, Department of Biological Sciences, SFU.
- **Joy, R**. November 2022. Novel data inputs for forecasting movement of whales in the Salish Sea. Detecting and Monitoring Megafauna from Space: Exploring Opportunities for the Northeast Pacific. Public Webinar, Ocean Decade Collaborative Center for the NE Pacific, Tula Foundation.
- **Joy, R.**, S. Bergner, D. Campbell, M. Dowd, F. Frazão<sup>+</sup>, O. Kirsebom, P. Nguyen Hong Duc<sup>+</sup>, M. Randon<sup>+</sup>, A. Riera, S. Veirs, V. Veirs, J. Wladichuk<sup>+</sup> and H. Yurk. December 2021. *Integrating visual and acoustic observations to build an 'intelligent' killer whale movement forecast system.* The Acoustical Society of America.
- **Joy, R**. August 2021. Challenges in building a Real-Time Forecast System for Movement of Whales Near Coastal Shipping Lanes. SFU Big Data Hub: Advances in Marine Data Sciences Event.
- **Joy, R**. December 2019. *Statistics in Science and Policy: A case study of the Southern Resident Killer Whales.* Departmental Seminar, Department of Statistics and Actuarial Science, SFU.
- **Joy, R**. November 2019. *Statistics in Science and Policy: A case study of the Southern Resident Killer Whales.* Departmental Seminar, Department of Mathematics and Statistics, University of Victoria.
- **Joy, R.** November 2018. *Managing Noise Disturbance in Southern Resident Killer Whale Habitat in the Salish Sea.* Pacific Wildlife Research Centre Seminar Series at Canadian Wildlife Service, ECCC.
- **Joy, R.**, M.G. Dowd. B.C. Battaile, P.M. Lestenkof, J.T. Sterling, A.W. Trites, and R.D. Routledge. June 2016. *At-sea behaviour of northern fur seals in the Bering Sea*. International Statistical Ecology Conference.
- **Joy, R**., M.G. Dowd. B.C. Battaile, P.M. Lestenkof, J.T. Sterling, A.W. Trites, and R.D. Routledge. May 2015. *Methodology for analyzing at-sea dive behaviour of northern fur seals in the Bering Sea*. Peter Wall International Research Roundtable.
- Joy, R. November 2014. Statistical Interactions of Science with the Community. Science World. Coastal Connections.

#### CONFERENCE CHAIR (1)

Adrean, L. and R. Joy. February 2022. Session Moderator, West Coast Offshore Wind Panel. Pacific Seabird Conference.

#### ORGANISER OF ACADEMIC WORKSHOPS (1)

**Joy, R**, P. Nguyen Hong Duc<sup>+</sup>, F. Frazão<sup>+</sup>, and H. Yurk. A workshop in harnessing the power of underwater hydrophone data for detecting whales in an era of Forecast Models, Machine Learning, Cluster-based Computing, and Citizen Science Engagement. Simon Fraser University. August 2022

#### **CONTRIBUTED PRESENTATIONS (144)**

- \* mentored student/postdoc; \* Last name changed to Joy from van den Driessche
- Mendez-Bye<sup>+</sup>, A. May 2025. *Climate change impacts on the vertical habitat use of the hooded seal in the Arctic*. Presentation to the Doctoral School at La Rochelle Université, Centre d'Etudes Biologiques de Chizé.
- Houweling<sup>+</sup>, A., **R. Joy** and R. Tibshirani. May 2025. *Machine Learning to Classify Southern Resident Killer Whale Clicks in the Salish Sea*. European Cetacean Conference, Ponta Delgada, Portugal.
- **Joy, R.**, F. Frazão<sup>+</sup>, A. Houweling<sup>+</sup>, T.-W. Lin<sup>+</sup>, P. Nguyen Hong Duc<sup>+</sup>, B. Padovese<sup>+</sup>, K. Palmer<sup>+</sup>, M. Randon<sup>+</sup> and P. Thompson<sup>+</sup>. November 2024. *Orcas on the Move*. 31st Annual Marine Mammal Symposium, UBC.
- Thompson<sup>+</sup>, P., H. Yurk, M. Dowd, and **R. Joy**. November 2024. *Uncovering southern resident killer whale movement patterns using opportunistic sightings data*. 31st Annual Marine Mammal Symposium, UBC.
- Lin<sup>+</sup>, T.-W., M. Dowd, and **R. Joy**. Forecasting the trajectories of Southern Resident Killer Whales with stochastic continuous-time movement models. Society of Marine Mammology Conference, Perth, Australia. November 2024.
- Thompson<sup>+</sup>, P., H. Yurk, M. Dowd, and **R. Joy**. November 2024. *Uncovering southern resident killer whale movement patterns using opportunistic sightings data*. Society of Marine Mammology Conference, Perth, Australia. November 2024.
- Mendez-Bye<sup>+</sup>, A., **R. Joy**, J. Vacquie-Garcia, M. Hammill, C. Hamilton, G. Stenson, L. Folkow, A. Blix, K. Kovacs, C. Lydersen, and T. Jeanniard du Dot. November 2024. *Tides of change: Hooded seal diving behaviours over the past 30 years under pressures of climate change.* Society of Marine Mammology Conference, Perth, Australia. November 2024.
- Tollit, D.J., Z. Li, F. Wilder, A.O. MacGillivray, J. McIntyre, K. Trounce, **R. Joy**, and J. Wood. *Understanding the biological value of voluntary vessel slowdowns to Southern Resident killer whales in core Pacific Northwest habitat: Comparing new acoustic space metrics with behavioural response-based metrics.* Society of Marine Mammology Conference, Perth, Australia. November 2024.
- Grandidier<sup>+</sup>, C., T. Jeanniard du Dot, and **R. Joy**. *An introduction to hooded seal ecology.* School of Environmental Science Seminar Series, SFU, Burnaby. October 2024.
- Mendez-Bye<sup>+</sup>, A. T. Jeanniard du Dot, and **R. Joy**. Assessing the effects of climate change on vertical habitat of hooded seals in the North Atlantic. School of Environmental Science Seminar Series, SFU, Burnaby. October 2024.
- Frazão<sup>+</sup>, F., O.S. Kirsebom, **R. Joy**, and M. Dowd. *Comparing acoustic representations for deep learning-based classification of underwater acoustic signals: a case study with Orca vocalizations.* International Conference on Underwater Acoustics. Bath, UK. July 2024.
- Padovese<sup>+</sup>, B., and **R. Joy**. *An open-source deep learning model for Fin Whale classification.* Journées des Jeunes Bioacousticiens. Brest, France. June 2024.
- Houweling<sup>+</sup>, A., and **R. Joy**. Who clicked in the Salish Sea? Journées des Jeunes Bioacousticiens. Brest, France. June 2024.
- Padovese<sup>+</sup>, B., F. Frazão<sup>+</sup>, and R. Gehrmann, O. Kirsebom, and **R. Joy**. From Stationary to Mobile listening platforms: Adapting deep learning models for North Atlantic right whale upcall detection. Detection Classification Localisation Distance Estimation Conference, Rotherdam, The Netherlands. June 2024.
- Frazão<sup>+</sup>, F., O.S. Kirsebom, B. Padovese<sup>+</sup>, **R. Joy**, and M. Dowd. *An open-source deep learning model for North Atlantic right whale qunshot identification*. DCLDE Conference, Rotherdam, The Netherlands. June 2024.
- Frazão<sup>+</sup>, F., O.S. Kirsebom, A. Houweling<sup>+</sup>, J. Wladichuk<sup>+</sup>, J. Kanes, **R. Joy**, and M. Dowd. *Using a sequence deep learning model to increase the acoustic context of a killer whale detector.* 186th Meeting of the Acoustical Society of America, Ottawa, Canada. May 2024.
- Broadley<sup>+</sup>, S. L. Lalach<sup>+</sup>, and **R. Joy**. Bridging Success. Pacific Seabird Conference, Seattle, Washington, February 2024.
- Broadley<sup>+</sup>, S. *Bridging Success: Navigating the recovery of the Double-Crested Cormorant in the Strait of Georgia amid urban and ecological challenges.* IDEAS Symposium, SFU, February 2024.
- Fairfield-Checko<sup>+</sup>, R. Kelp Help! Do you see what I sea?. IDEAS Symposium, SFU, February 2024.
- McNeilly<sup>+</sup>, J. Sablefish are on the menu for Southern Resident Killer Whales, but at what cost? IDEAS Symposium, SFU, February 2024.

- Murphy<sup>+</sup>, O., R. Fairfield Checko<sup>+</sup>, M. Young<sup>+</sup>, L. Laturnus<sup>+</sup>, T.-W. Lin<sup>+</sup>, B. Padovese<sup>+</sup> and **R. Joy**. *Analysis of Southern Resident Killer Whale Management Measures Surrounding Saturna Island*. SFU Bi-weekly seminar series on Bioacoustics, Cetaceans and Advanced Computing. February 2024.
- Fairfield Checko $^+$ , R. Multi-year marine mammal observations in and around the Saturna Island Interim Sanctuary Zone.  $31^{st}$  B.C. Marine Mammal Symposium, November 2023.
- McNeilly<sup>+</sup>, J. Sablefish are on the menu for Southern Resident Killer Whales, but at what cost?.  $31^{st}$  B.C. Marine Mammal Symposium, November 2023.
- Young $^+$ , M. Optimizing Techniques for Vessel Adherence Monitoring and Whale Detection in the Saturna ISZ.  $31^{st}$  B.C. Marine Mammal Symposium, November 2023.
- Clarke, C.M.K., V. Rani<sup>+</sup>, E. Stredulinsky, S. Toews, M. Bouvier<sup>+</sup>, D. Smyth, **R. Joy**, S.J. Thornton. *A marine reserve reduces vessel presence, with implications for Northern Resident Killer Whale (Orcinus orca) beach rubbing behaviour*. Coastal Zones Canada Conference, Victoria, BC. June 2023.
- Stapleton $^+$ , R. Monitoring nest success of Double-crested Cormorants within the Strait of Georgia.  $44^{th}$  Annual Pacific Ecology and Evolution Conference, April 2023.
- Murphy $^{+}$ , O., and **R. Joy**. Analysing marine vessel noise impacts on acoustic behaviour of endangered Southern Resident killer whale.  $44^{th}$  Annual Pacific Ecology and Evolution Conference, April 2023.
- Stapleton<sup>+</sup>, R., L. Cowen, R. Wilkin, J. Cragg, A. Lenske, G. McClelland, and **R. Joy**. *Multi-event modelling shows variable nest success for the at-risk Double-crested Cormorant population within the Strait of Georgia*. Pacific Seabird Conference, Scripts Institute of Oceanography, California. February 2023.
- Wilkin<sup>+</sup>, R., J. Anderson, R. Stapleton<sup>+</sup>, J. Cragg, G. McClelland, A. Lenske, and **R. Joy**. *Deep Learning of orthomosaic images is an efficient tool for monitoring nest success of an urban seabird colony.* Pacific Seabird Conference, Scripts Institute of Oceanography, California. February 2023.
- M. Dowd, T.W. Lim<sup>+</sup>, and **R. Joy**. *Towards Predicting Whale Movement*. Machine learning advances for marine acoustics and imagery data workshop. Dalhousie University. November 2022.
- Dowd, M. and **R. Joy**. Overview: Elements of whale detection using acoustics. Workshop on Machine Learning and Movement Models. Burnaby, BC. August 2022.
- Dowd, M., T.W. Lim<sup>+</sup> and **R. Joy**. Towards Predicting Whale Movement. Machine learning advances for marine acoustics and imagery data workshop. Dalhousie University. November 2022.
- Frazão<sup>+</sup>, F., O. Kirsebom, M. Dowd., and **R. Joy**. *Open-source deep learning models for detection and classification of orcas.*Workshop on Machine Learning and Movement Models, Burnaby, BC. August 2022.
- Nguyen Hong Duc<sup>+</sup>, P., D. Campbell, and **R. Joy**. Characterizing southern resident killer whale (SRKW) calls using a particle filter for frequency ridge extraction. Workshop on Machine Learning and Movement Models. Burnaby, BC. August 2022.
- Toews, S., J. Watson, **R. Joy**, E. Stredulinsky, C. Konrad, and S. Thornton. *Temporal Shifts in Habitat Preference of Southern Resident Killer Whales: Impacts of Prey Abundance.* Conference of the Society for Marine Mammals. Palm Beach, Florida. August 2022.
- Randon<sup>+</sup>, M., M. Dowd, and **R. Joy**. A real-time data assimilative forecasting system for animal tracking. Conference of the Society for Marine Mammals. Palm Beach, Florida. August 2022.
- Ryder, M., C. Booth, C. Oedekoven, D. Harris, **R. Joy**, T. Marques, L. Marshall, and L. Thomas. *Passive Acoustic Monitoring Power Analysis: A tool for designing an acoustic monitoring program.* International Conference on the Effects of Noise on Aquatic Life. Berlin, Germany. July 2022.
- Rani<sup>+</sup>, V., M. Bouvier<sup>+</sup>, C. Konrad Clarke, **R. Joy**, and S.J. Thornton. *Effects of vessel presence on Northern Resident killer whale rubbing behaviour.* Salish Sea Ecosystem Conference. April 2022.
- Bouvier<sup>+</sup>, M., V. Rani<sup>+</sup>, H. Yurk, C. Konrad Clarke, S.J. Thornton, and **R. Joy**. *Characterization of Northern Resident killer whale* (Orcinus orca) call types and source levels during beach rubbing. Salish Sea Ecosystem Conference. April 2022.
- Quayle<sup>+</sup>, L., K. Baril<sup>+</sup>, A. Gheibi<sup>+</sup>, SIMRES, SGIWSN, and **R. Joy**. Eyes on the Water: Citizen Science in the Salish Sea. Salish Sea Ecosystem Conference. April 2022.
- Randon<sup>+</sup>, M., M. Dowd, and **R. Joy**. A real-time data assimilative forecasting system for Southern Resident killer whales in the Salish Sea. Salish Sea Ecosystem Conference. April 2022.

- Randon<sup>+</sup>, M., M. Dowd, and **R. Joy**. 2022. Can ecological forecasting help mitigate the risk of collision between whales and commercial vessels? The case of the endangered Southern Resident killer whales. International Statistical Ecology Conference.
- Randon<sup>+</sup>, M., M. Dowd, and **R. Joy**. 2022. *A real-time forecasting system to mitigate the risk of collision between whales and commercial vessels*. European Cetacean Society.
- Stapleton<sup>+</sup>, R., R Wilkin<sup>+</sup>, M Ong<sup>+</sup> and **R. Joy**. February 2022. *Photogrammetry results and future research on the Double-crested Cormorant Within the Salish Sea*. Mitlenatch Island Stewardship Workshop.
- Frazão<sup>+</sup>, F., P. Nguyen Hong Duc<sup>+</sup>, O. Kirsebom, **R. Joy** and S. Matwin. *Comparing snapshot and sequence ANN: A study case with blue whales.* DCLDE Conference, On-line March 2022.
- Wilkin<sup>+</sup>, R., M. Ong<sup>+</sup>, L. Cojocaru<sup>+</sup>, J. Anderson, J. Cragg, G. McClelland and **R. Joy**. *Machine learning as a tool for monitoring seabird nesting colonies*. Pacific Seabird Conference, On-line March 2022.
- Kirsebom, O.S., S. Bergner, D. Campbell, M. Dowd, F. Frazão<sup>+</sup>, **R. Joy**, P. Nguyen Hong Duc<sup>+</sup>, B. Padovese, M. Randon, A. Riera, S. Sakib, S. Veirs, V. Veirs, J. Wladichuk<sup>+</sup>, and H. Yurk. *Open-source deep learning models for acoustic detection and classification of orcas*. Detection, Classification, Localisation, and Density Estimation (DCLDE) International Workshop. Oahu, Hawaii. March 2022.
- Sakib, S., S. Bergner, D. Campbell, M. Dowd, F. Frazão<sup>+</sup>, J. MacAulay, **R. Joy**, O. S. Kirsebom, P. Nguyen Hong Duc<sup>+</sup>, B. Padovese, M. Randon<sup>+</sup>, A. Riera, S. Veirs, V. Veirs, J. Wladichuk<sup>+</sup> and H. Yurk. *Open-source deep learning models for acoustic detection and classification of orcas.* Acoustic Society of America. Seattle, WA. December 2021.
- Nguyen Hong Duc<sup>+</sup>, P., D. Campbell, and **R. Joy**. Characterizing Southern Resident killer whale calls using a particle filter for frequency contour extraction. Acoustic Society of America. Seattle, WA. December 2021.
- Frazão<sup>+</sup>, F., S. Bergner, D. Campbell, M. Dowd, **R. Joy**, O. S. Kirsebom, P. Nguyen Hong Duc<sup>+</sup>, B. Padovese, M. Randon<sup>+</sup>, A. Riera, S. Sakib, S. Veirs, V. Veirs, J. Wladichuk<sup>+</sup> and H. Yurk. *Novel software for deep-learning based acoustic data analysis*. Acoustic Society of America. Seattle, WA. December 2021.
- Meszaros<sup>+</sup>, K., K. Roessingh, and **R. Joy**. February 2021. *Birds of a feather: Non-invasive sampling reveals British Columbia's Sandhill Cranes don't all flock together*. Provincial Working Group 'Threat' Series.
- Yurk, H., S. Berger, M. Randon<sup>+</sup>, and **R. Joy**. February 2021. *Using big (acoustic) data, neural networks and artificial intelligence in the conservation of Southern Resident killer whales*. Invited by the Port of Vancouver ECHO Program.
- Quayle<sup>+</sup>, M., H. Yurk, P. Nguyen Hong Duc<sup>+</sup> and **R. Joy**. Assessing vessel related threats on whales in Boundary Pass. Canadian Society for Ecology and Evolution. August 2021.
- Ong<sup>+</sup>, M., M. Randon<sup>+</sup>, T. Chatwin, J. Cragg, G. McClelland, and **R. Joy**. *Photogrammetric monitoring of nesting cormorants in the Salish Sea.* Canadian Society for Ecology and Evolution. August 2021.
- Campbell, D., P. Nguyen Hong Duc<sup>†</sup>, and **R. Joy**. Characterizing whale calls from underwater acoustic recordings. 6<sup>th</sup> Canadian Conference in Applied Statistics. Concordia U., July 2021.
- Randon<sup>+</sup>, M., M. Dowd, and **R. Joy**. Where are they going? A real-time forecasting system for animal tracking. The 7th Annual SFU Post Doc Research Day. March 2021.
- Ong<sup>+</sup>, M., M. Randon<sup>+</sup>, T. Chatwin, J. Cragg, G. McClelland, and **R. Joy**. *Photogrammetric monitoring of Double-crested cormorants nesting sites on Ironworkers Memorial Bridge in Vancouver*. Pacific Seabird Conference. February 2021.
- Randon<sup>+</sup>, M., M. Dowd and **R. Joy**. December 2020. A real time forecasting system to limit vessel disturbances on the endangered Southern Resident killer whales. Fisheries and Oceans 'Science Talk' Series.
- Berger, S., and **R. Joy**. December 2020. *Using big data and A.I. in conservation of endangered killer whales*. Big Data and A.I.: GovTech Summit.
- Quayle<sup>+</sup>, L., and **R. Joy**. August 2020. *Observations in a Whale Sanctuary*. Saturna Island Marine Research and Education Society, SEATalk Series.
- Akporuno<sup>+</sup>, O., T. Reid, S. Chartrand, and **R. Joy**. Assessing macro-benthic invertebrate communities in dendritic tidal channels of a berm impacted area of the Nanaimo River Estuary. Salish Sea Ecosystem Conference.
- Cummings<sup>+</sup>, E., A. Harris<sup>+</sup>, K. Angadi, H. Yurk, R. Osborne, and **R. Joy**. *Developing a predictive movement model to decrease the ship strike risk in Southern Resident killer whale critical habitat.* Salish Sea Ecosystem Conference.
- Harris<sup>+</sup>, A.S., T. Reid, and **R. Joy**. *Restoring eco-geomorphic processes and plant community trajectories in the Nanaimo River Estuary*. Salish Sea Ecosystem Conference.

- **Joy, R.**, R. Schick, T. Margolina, M. Dowd, J. Joseph, and L. Thomas. *Fine-scale 3-D whale movement: A simulation model to assess the impact of noise exposure to naval exercises in range*. Conference of the Society for Marine Mammals, Barcelona, Spain. December 2019.
- Konrad, C.M., M. Neves, **R. Joy**, S. Vagle, S. Thornton. *Effectiveness of vessel traffic displacement to mitigate anthropogenic noise on southern resident killer whales in the Juan de Fuca Strait.* Conference of the Society for Marine Mammals, Barcelona, Spain. December 2019.
- Tollit, D.J., J. Wood, and **R. Joy**. Southern Resident Killer Whale noise risk assessment and mitigation efficacy assessments. Conference of the Society for Marine Mammals, Barcelona, Spain. December 2019.
- Trounce, K., O. Robinson, A. MacGillivray, D. Hannay, J. Wood, D. Tollit, **R. Joy**. *The effects of vessel slowdown on foraging habitat of the southern resident killer whales*. Effects of Noise on Aquatic Life, Den Haag, July 2019.
- **Joy, R.** D.J. Tollit, J. Wood, A. MacGillivray, Z. Li, K. Trounce, O. Robinson. *Killer whale noise-exposure model.* Effects of Noise on Aquatic Life, Den Haag, July 2019.
- Harris, C.M., L. J. Wilson, **R. Joy**, C. G. Booth, J. Harwood. *A decision framework to identify populations that may be vulnerable to the population level effects of disturbance*. Effects of Noise on Aquatic Life, Den Haag, July 2019.
- Wood, J.W., D.J. Tollit, **R. Joy**, O. Robinson, and K. Trounce. *Ship speed reduction is an effective mitigation for underwater noise effects*. 176th Acoustical Society of America, Victoria, BC. November 2018.
- Booth, C., C. Oedekoven, D. Gillespie, J. MacAulay, T. Marques, D. Harris, L. Marshall, R. Plunkett, **R. Joy**, J. Wood, U. Verfuss, P. Tyack, M. Johnson, and L. Thomas. *AVADECAF: Assessing the Viability of Density Estimation for Cetaceans from passive Acoustic Fixed sensors throughout the Life Cycle of an Offshore E&P Field Development. 6th International Meeting on the Effects of Sound in the Ocean on Marine Mammals. IOGP E&P Sound and Marine Life Joint Industry Programme. The Hague. September 2018.*
- Pirotta, E., C. Booth, D. Costa, E. Fleishman, C. Harris, **R. Joy**, S. Kraus, D. Lusseau, D. Moretti, L. New, R. Schick, L. Schwarz, S. Simmons, L. Thomas, C. Todd, P. Tyack, M. Weise, R. Wells, L. Wilson, and J. Harwood. *Understanding the population consequences of disturbance reviewing the current state of PCoD research*. 6th International Meeting on the Effects of Sound in the Ocean on Marine Mammals/IOGP E&P Sound and Marine Life Joint Industry Programme. The Hague. September 2018.
- Southall, B.L, J. Amaral, C. Clark, B. Ellison, **R. Joy** and D. Tollit. *A Risk Assessment Framework to Evaluate the Potential Relative Effects of Noise on Marine Mammals*. 6th International Meeting on the Effects of Sound in the Ocean on Marine Mammals/IOGP E&P Sound and Marine Life Joint Industry Programme. The Hague. September 2018.
- Thomas, L., T. Marques, D. Harris, C. Oedekoven, L. Marshall, P. Tyack, M. Johnson, D. Gillespie, K. Kim, S. Blackwell, A. Thode, G. Phillips, D. Moretti, C. Booth, **R. Joy**, J. Wood, and U. Verfuss. *Passive acoustic density estimation: methods evaluation and survey design*. 6th International Meeting on the Effects of Sound in the Ocean on Marine Mammals/IOGP E&P Sound and Marine Life Joint Industry Programme. The Hague. September 2018.
- **Joy, R.**, R. Millikin, M. Harrison, J. Komaromi, P. Krannitz, N. Mahony, and M. Vander Haegen. *Defining Critical Habitat of Sage Thrashers in the northern periphery of their range: 20 years of monitoring in British Columbia and Washington State*. 27th International Ornithological Congress, Vancouver, Canada. August, 2018.
- Millikin, R., T. Manning, **R. Joy**, B. Danielson, M. Harrison, J. Komaromi, and D. C. Henderson. *Evaluation of an unmanned aerial vehicle to assess critical habitat of the Sage Thrasher*. 27th International Ornithological Congress, Vancouver, Canada. August 2018.
- **Joy, R.**, J. Watson, M. Auger-Méthé, S. Thornton, D. Tollit, and J. Wood. *Describing Southern Resident killer whale habitat use in the Salish Sea using multiple sources of data*. International Statistical Ecology Conference, St Andrews University, July 2-6, 2018.
- Dowd, M., and **R. Joy**. *Towards Spatio-temporal state-space models for ecological dynamics*. International Statistical Ecology Conference, St Andrews University, July 2-6, 2018.
- Sparling, C., J. Onoufriou, D. Thompson, B. Band, **R. Joy**, J. Wood, D. Gillespie, C. Malinka, J. Macauley and G. Hastie. *Improving our predictions of collision risk for marine mammals and tidal turbines towards a better understanding of the most critical factors*. Environmental Interactions of Marine Renewables Conference, Kirkwall, Orkney. April 2018.
- Gillespie, D., J. Macaulay, C. Malinka, G. Hastie, **R. Joy**, and C. Sparling. *Passive Acoustic Monitoring of Cetacean Movement around Operational Tidal Turbines*. Environmental Interactions of Marine Renewables Conference, Kirkwall, Orkney, April 2018.

- Wood, J., Tollit, D.J., **R. Joy**, A. MacGilivray, N. Koshure, K. Trounce, and O. Robinson. *Commercial ship versus whale watch boat noise: relative effects on Southern Resident Killer Whales.* Salish Sea Ecosystem Conference, Seattle, Washington, April, 2018.
- Joy, R., J Wood, C Sparling, D. J. Tollit, A. Copping, and B. McConnell. *Empirical measures of harbor seal behavior and avoidance of an operational tidal turbine*. 22nd Conference of the Society for Marine Mammals, Halifax, Nova Scotia. October 2017
- Wood, J., D.J. Tollit, **R. Joy**, A. Redden, P. Porskamp, B. Sanderson, T. Boucher, M. Oldreive, A.-M. Belliveau, and F. C. Robertson. *Monitoring the potential effects of tidal turbines on porpoise in the Bay of Fundy using C-PODs*. 22nd Conference of the Society for Marine Mammals, Halifax, Nova Scotia. October 2017.
- Malinka, C., D. Gillespie, J. Macaulay, **R. Joy**, and C. Sparling. *First in-situ passive acoustic monitoring for marine mammals during operation of a tidal turbine in Ramsey Sound, Wales*. 22nd Conference of the Society for Marine Mammals, Halifax, Nova Scotia. October 2017.
- Tollit, D. J., **R. Joy**, J. Wood, A. MacGilivray, N. Koshure, K. Trounce, and O. Robinson. *Commercial ship versus whale watch boat noise: Relative disturbance effects on Southern Resident killer whales*. 22nd Conference of the Society for Marine Mammals, Halifax, Nova Scotia. October 2017.
- Robertson, F., **R. Joy**, I. Côté, J. Wood, and D.J. Tollit. *Integrating environmental effects into marine renewable energy development: a case study of tidal turbines and marine mammals*. SFU Climate and Energy Research Day: exploring, water and energy nexus. Burnaby, BC. April 2017.
- **Joy, R.**, J. Wood, B. Miller, A. MacGillivray, S. Meier, and D.J. Tollit. *Development of a simulation model for estimating behavioural responses to vessel noise: A case study with the Southern Resident killer whale*. Salish Sea Ecosystem Conference, Vancouver, BC. April 2016.
- Smith, J.L., E. Leung, R. Rankin, **R. Joy**, L. Chilvers, H. Finn and N. Loneragan. *Sex differences in the fine-scale habitat use of juvenile New Zealand sea lions (Phocarctos hookeri) in relation to trawl fisheries: implications for conservation management in a declining population*. 21st Conference of the Society for Marine Mammals, San Francisco, California. December 2015.
- **Joy, R.**, M.G. Dowd, B.C. Battaile, P.M. Lestenkof, J.T. Sterling, A.W. Trites, and R.D. Routledge. *Methodology for analyzing at-sea dive behaviour of northern fur seals in the Bering Sea*. 21st Conference of the Society for Marine Mammals, San Francisco, California. December 2015.
- Porter, L. and **R. Joy**. *The response of Chinese white dolphins to construction related to the Hong Kong-Zhuai-Macao bridge*. 21st Conference of the Society for Marine Mammals, San Francisco, California. December 2015.
- Wood, J., D.J. Tollit, **R. Joy**, B. Miller, C. Booth, S. King, and R. Williams. *Defining metrics to quantify noise exposure in Southern Resident killer whales*. 21st Conference of the Society for Marine Mammals, San Francisco, California. December 11-18, 2015
- Roessingh, K. and **R. Joy**. Sandhill Cranes of coastal British Columbia: Nesting habitat and foraging studies. 16th Alaska Bird Conference, Juneau, Alaska. December 9-11, 2014.
- Tollit, D.J., L.W. Fritz, K.M. Miller, A.D. Schulze, T.K. Zeppelin, T.S. Gelatt, J. Thomason, **R. Joy**, and W.A. Walker. *Diet of endangered Steller sea lions in the Aleutian Islands: New insights from DNA detections and bio-energetic reconstructions*. 21st Conference of the Society for Marine Mammals, San Francisco, California. December 2015.
- **Joy, R.** and K. Roessingh. Population structure in the Pacific flyway of migratory Sandhill Cranes. Hakai Research Exchange, UBC. January 2015. 121. Muir, J.E., L.M. Ainsworth, **R. Joy**, R. Racca, Y. Bychkov, G. Gailey, V. Vladimirov, S. Starodymov, and K Bröker. Western Gray Whale Distribution and Abundance during a 4-D Seismic Survey. 20th Conference of the Society for Marine Mammals, Dunedin, New Zealand. December 2013.
- **Joy, R.**, and R.D. Routledge. *A hierarchical Bayes model for incorporating uncertainties in data from marine mammal at-sea foraging tracks*. Fall 2013 SFU-UBC Workshop in Statistics. Vancouver, Canada. October 2013.
- Ainsworth, L., J.E. Muir, R. Racca, **R. Joy**, G. Gailey, V. Vladimirov et al. *A case study in zero-inflation: a space-time model for whale densities in the presence of pulsed sound*. 23rd Conference of the International Environmetrics Society, Anchorage, Alaska, June 2013.
- **Joy, R.**, and R.D. Routledge. *Estimating the effect of groundfish abundance and other spatial covariates on northern fur seal behaviour*. Joint Statistical Meeting, Montreal, August 2013.
- **Joy, R.**, and Z. Sun. *Impact of human disturbances on habitat selection and on calf survival for forest-dwelling caribou*. 41st annual meeting of the Statistical Society of Canada, Edmonton, Alberta, May 2013.

- Chatwin, T.A., **R. Joy** and A.E. Burger. *Set-back Distances to Protect Nesting and Roosting Seabirds off Vancouver Island from Boat Disturbance*. Pacific Seabird Group Conference, Portland, February 2013.
- Trites, A.W., R. Grybda, **R. Joy**, and B. Battaile. *Is fishing for Atka mackerel responsible for the decline of Steller sea lions in the western and central Aleutian Islands?* 19th Conference of the Society for Marine Mammals, Tampa, Florida, November 2011.
- Hui, T. R. Flinn, E.J. Gregr, **R. Joy** and A.W. Trites. *Steller sea lions and fisheries: Competition at sea?* 19th Conference of the Society for Marine Mammals, Tampa, Florida, November 2011.
- **Joy, R.**, M.G. Dowd, and R. Routledge. *Applying State Space Methods to Northern Fur Seal foraging data*. Winter 2011 SFU-UBC Joint Graduate Student Workshop in Statistics. Vancouver, BC, Canada.
- **Joy, R.**, M.Dowd, P. Lestenkof, B. Battaile, and A. Trites. *Identifying foraging habitat of lactating northern fur seals and the spatial overlap with commercial fisheries in the Eastern Bering Sea*. Fourth International Science Symposium on Biologging. 2011 Hobart, Australia.
- A.W. Trites, R. Flinn, **R. Joy**, and B. Battaile. 2011. *Steller sea lion trends from 2000 to 2009 were not associated with Atka mackerel fishery indices in the western and central Aleutian Islands*. Marine Science in Alaska Symposium. January 2011. Anchorage, Alaska.
- Joy, R. Estimating parameters in State Space Models. UBC Quantitative Fisheries Seminar Series, September 2010.
- Trites, A.W., I. Takeomi, S. Brunner, and **R. Joy**. Changes in Steller Sea Lion Skull Sizes: Testing the Nutritional Stress Hypotheses. Canadian Society of Zoologists. May 17-21, 2010. Vancouver, BC, Canada.
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