

DR SARAH MARLEY

Email: sarah.marley86@gmail.com | **Phone:** 07956 426 828 | **Web:** www.sarahmarley.com

EDUCATION

- 2019-20** **Postgraduate Certificate in Higher Education [*Distinction*]**, University of Portsmouth, UK
Engaging undergraduate science students through involvement in research projects
- 2013-17** **PhD Marine Bioacoustics [*Distinction*]**, Curtin University, Australia
Behavioural and acoustical responses of coastal dolphins to noisy environments
- 2008-09** **MRes Marine Mammal Science**, University of St Andrews, UK
Aggressive behaviour, haul-out patterns, and anthropogenic disturbance of grey seals
- 2004-08** **BSc Zoology (Hons)**, University of Aberdeen, UK
The use of photographs as an indirect measure of aggression in bottlenose dolphins

ACADEMIC EXPERIENCE

- 2020-** **Course Leader MSc Applied Aquatic Biology**, University of Portsmouth, UK
- 2020-** **Senior Lecturer in Marine Biology**, University of Portsmouth, UK
- 2018-20** **Lecturer in Marine Biology**, University of Portsmouth, UK
- 2018** **Postdoctoral Researcher**, University of Western Australia, Australia
- 2017-18** **Postdoctoral Researcher**, Curtin University, Australia
- 2013** **Lecturer (Sessional)**, University of Notre Dame, Australia
- 2013** **Lecturer (Sessional)**, University of Western Australia, Australia
- 2012-18** **Lecturer (Sessional)**, Curtin University, Australia

ADDITIONAL EXPERIENCE

- 2017-18** **Environmental Consultant**, ERM, Australia
- 2012-18** **Research Scientist**, Western Australian Department of Conservation, Australia
- 2012-16** **Environmental Consultant**, Independent, Australia
- 2012** **Scientific Editor**, Curtin University, Australia
- 2011-14** **Field Coordinator**, Southwest Whale Ecology Study, Australia
- 2011-12** **Outreach Science Presenter**, Scitech Discovery Centre, Australia
- 2010-16** **Research Assistant**, Curtin University, Australia

- 2010 **Field Assistant**, Southwest Whale Ecology Study, Australia
- 2010 **Marine Naturalist**, Oceanic Cruises, Australia
- 2010 **Field Assistant**, Centre for Whale Research (WA) Inc., Australia
- 2010 **Field Assistant**, Macquarie University, Australia
- 2008 **Bosun / Naturalist**, The Majestic Line, UK
- 2008 **Field Volunteer**, Sea Watch Foundation, UK
- 2007-08 **Biology Education Assistant**, Natural History Unit, University of Aberdeen, UK
- 2007 **Field Volunteer**, Tethys Research Institute, Greece
- 2007 **Field Volunteer**, Lighthouse Field Station, University of Aberdeen, UK
- 2007 **Public Affairs Assistant**, Royal Society for the Protection of Birds (RSPB), UK
- 2006-07 **Science Presenter**, TechFest Science Festival, UK

TERTIARY MODULES TAUGHT

FIRST-YEAR UNDERGRADUATE

- Biodiversity and Evolution
- Biological Computing
- Experimental Biology
- Graduate Skills
- Scientific Practices
- Science Communication

SECOND-YEAR UNDERGRADUATE

- Animal Science
- Community Ecology
- Graduate Skills
- Marine Biodiversity
- Marine Research Skills
- Quantitative Biology

THIRD-YEAR UNDERGRADUATE

- Advanced Marine Science and Technology
- Environmental Education
- Honours Project
- Marine Ecology and Conservation
- Marine Ecophysiology
- Natural Resource Management

MASTERS

- Aquatic Biology Research Project
- Environmental Surveying
- Quantitative Ecology
- Marine Policy, Planning and Conservation
- Research Toolkit
- Science and the Media

SUPERVISION

Post-Doctoral Researchers	2 completed, 1 in progress
PhD students	1 completed, 3 in progress
MRes students	2 in progress
MSc students	7 completed, 1 in progress
Honours students	10 completed, 11 in progress

HONOURS AND AWARDS

2018	American Elasmobranch Society Diversity Scholarship	Winner
2017	Australian Marine Science Association Allen Award	Highly Commended
2016	Curtin University Student Excellence Award	Winner
2016	IMarEST Western Australian Marine Studies Award	Finalist
2015	FameLab Australia	Finalist
2015	FameLab Western Australia	People's Choice
2014	Asia-Pacific 3-Minute-Thesis (3MT) Competition	Winner
2014	Curtin University 3-Minute-Thesis (3MT) Competition	Winner & People's Choice
2007	BBC Wildlife Young Environmental Journalist of the Year	Winner

SCIENTIFIC GRANTS AND FUNDING

In Review	NERC Sustainable Management of Marine Resources [PI]	384,016 GBP
In Review	Royal Society Research Grant [PI]	17,980 GBP
2020	European Commission Inter-Reg Grant [Co-I]	301,695 GBP
2020	UK Government Global Challenges Research Fund [Co-I]	177,000 GBP
2019	University of Portsmouth Professional Development Grant	500 GBP
2019	UK Acoustics Network Travel Grant	300 GBP
2019	University of Portsmouth Faculty PhD Bursary [PI]	60,000 GBP
2018	University of Portsmouth Research and Innovation Funding [PI]	30,000 GBP
2017	Australian Acoustical Society Research Grant [Co-I]	31,000 AUD
2017	Society for Marine Mammalogy Travel Grant	1,000 USD

2017	British Ecological Society Training and Travel Grant	500 GBP
2017	Curtin University Publication Scholarship	3,000 AUD
2015	Holsworth Wildlife Research Endowment [PI]	2,000 AUD
2014	Holsworth Wildlife Research Endowment [PI]	7,500 AUD
2013	Australian Acoustical Society Education Fund [PI]	5,000 AUD
2013	Holsworth Wildlife Research Endowment [PI]	7,500 AUD
2013	Curtin University International Postgraduate Research Scholarship	120,000 AUD
2008	Carnegie Trust Postgraduate Bursary	4,000 GBP

PUBLICATIONS

Bold = Applicant; Underlined = Student

IN REVIEW

Araujo, G., Agustines, A., Bach, S.S., Cochran, J.E.M, de la Parra-Galvan, E., de la Parra-Venegas, R., Diamant, S., Dove, A.D.M., Fox, S., Graham, R., Green, S.M., Green, J.R., Hardenstine, R.S., Hearn, A.R., Himawan, M.R., Hobbs, R., Holmberg, J., Jaidah, M.Y., Labaja, J., Leblond, S., Legaspi, C., Maguino, R., Magson, K., Marcoux, S.D., Marcoux, T.M., **Marley, S.A.** et al. (In Review) A global outlook sheds light on the ecology of the whale shark *Rhincodon typus*. *eLife*.

Burton, C., Bouchet, P.J., Gill, P. and **Marley, S.** (In Review) Evidence of pygmy blue whale foraging off Timor-Leste. *Marine Ecology Progress Series*.

Castles, R., Woods, F., Hughes, P., Arnott, J., MacCallum, L. and **Marley, S.A.** (In Review) Increasing numbers of harbour seals and grey seals in the Solent. *Marine Mammal Science*.

Marley, S.A., Siani, A. and Sims, S. (In Review) Engaging undergraduate science students through involvement in research projects. *Student Engagement in Higher Education Journal*.

Rocha, D., **Marley, S.A.**, Drakeford, B., Potts, J. and Gullan, A. (In Review) The benefits of guide training for sustainable cetacean-based tourism in developing countries. *Journal of Ecotourism*.

IN PRESS

Erbe, C., Houser, D., Bowles, A., **Marley, S.A.**, Schoeman, R. and Wellard, R. (In Press) Noise Effects on Marine Mammals. In Erbe, C., Houser, D. and Bowles, A. (Eds.), *Marine Mammals and Noise*. Springer.

PUBLISHED

Bouchet, P.J., Thiele, D., **Marley, S.A.**, Waples, K., Weisenberger, F., Balangarra Rangers, Bardi Jawi Rangers, Dambimangari Rangers, Nyamba Buru Yawuru Rangers, Nyul Nyul Rangers, Uunguu Rangers and Raudino, H. (2021) Regional Assessment of the Conservation Status of Snubfin Dolphins (*Orcaella heinsohni*) in the Kimberley Region, Western Australia. *Frontiers in Marine Science*, 7:614852.

Siani, A. and **Marley, S.A.** (2021) Impact of the recreational use of Virtual Reality on physical and mental wellbeing during the Covid-19 lockdown. *Health and Technology*, 11: 425-435.

Rocha, D., Drakeford, B., **Marley, S.**, Potts, J., Hale, M. and Gullan, A. (2020) Moving towards a sustainable cetacean-based tourism industry – a case study from Mozambique. *Marine Policy*, 120: 104048.

Siani, A., **Marley, S.A.**, Smith, C. and Donnelly, J. (2020) Gender and parental education as indicators of students' engagement with STEM subjects. *International Journal of Gender, Science and Technology*, 12(2): 247-261.

Erbe, C., Salgado-Kent, C.P., De Winter, S., **Marley, S.A.** and Ward, R. (2020) Matching Signature Whistles with Photo-Identification of Indo-Pacific Bottlenose Dolphins (*Tursiops aduncus*) in the Fremantle Inner Harbour, Western Australia. *Acoustics Australia*: 1-16.

Erbe, C., **Marley, S.A.**, Schoeman, R.P., Smith, J.N., Trigg, L.E. and Embling, C.B. (2019) The effects of ship noise on marine mammals – a review. *Frontiers in Marine Science*, 6: 606.

Marley, S.A., Erbe, C., Salgado Kent, C.P. and Parnum, I.M. (2017) Effects of vessel traffic and underwater noise on the movement, behaviour and vocalisations of bottlenose dolphins (*Tursiops aduncus*) in a highly urbanised estuary. *Scientific Reports*, 7: 13437.

Marley, S.A., Erbe, C. and Salgado Kent, C.P. (2017) Underwater recordings of the whistles of bottlenose dolphins in the Fremantle Inner Harbour, Western Australia. *Scientific Data*, 4: 170126.

Marley, S.A., Salgado Kent, C.P., Erbe, C. and Thiele D. (2017) A Tale of Two Soundscapes: Comparing the acoustic characteristics of urban versus pristine coastal dolphin habitats in Western Australia. *Acoustics Australia*, 45: 159-178.

Marley, S.A., Erbe, C., Salgado Kent, C.P., Parsons, M.J.G. and Parnum, I. (2017) Spatial and temporal variation in the acoustic habitat of bottlenose dolphins (*Tursiops aduncus*) within a highly urbanised estuary. *Frontiers in Marine Science*, 4: 197.

Marley, S.A., Salgado Kent, C.P. and Erbe, C. (2017) Occupancy of bottlenose dolphins (*Tursiops aduncus*) in relation to vessel traffic, dredging and environmental variables within a highly-urbanised estuary. *Hydrobiologia*, 792(1): 243–263

Parsons, M.J.G., Erbe, C., McCauley, R.D., McWilliam, J., **Marley, S.A.**, Parnum, I.M., Salgado Kent, C., and Gavrilov, A.N. (2016) Long-term monitoring of soundscapes and deciphering a usable index: Examples from Australia. *Proceedings of Meetings in Acoustics*, 27(1), 010023.

Parsons, M.J.G., Salgado Kent, C.P., **Marley, S.A.**, Gavrilov, A.N. and McCauley, R.D. (2016) Characterising diversity and variation in fish choruses in Darwin Harbour. *ICES Journal of Marine Science*, 73(8), 2058-2074.

Marley, S.A., Erbe, C. and Salgado Kent, C.P. (2016) Underwater Sound in an Urban Estuarine River: Sound sources, soundscape contribution, and temporal variability. *Acoustics Australia*, 44(1), 171-186.

Recalde-Salas, A., Salgado Kent, C.P., Parsons, M.J.G., **Marley, S.A.** and McCauley, R.D. (2014) Non-song vocalisations of pygmy blue whales in Geographe Bay, Western Australia. *The Journal of the Acoustical Society of America*, 135(5), EL213.

Marley, S.A., Cheney, B. and Thompson, P.M. (2013) The use of photographs as an indirect measure of aggression in bottlenose dolphins (*Tursiops truncatus*). *Aquatic Mammals*, 39(2), 107-115.

CONFERENCE PRESENTATIONS (last 3yrs only)

- 2020** Engaging undergraduate students through involvement in 'real science'. *Blended Learning and Teaching Conference*; Portsmouth, UK.
- 2019** Surfacing and diving behaviour of snubfin dolphins and implications for visual surveys. *World Marine Mammal Conference*; Barcelona, Spain.
- 2019** Effects of underwater noise on the vocalisations of bottlenose dolphins in an urbanised estuary. *International Bioacoustics Congress*; Brighton, England.
- 2019** Impacts of human activities on the acoustic habitats and behaviour of bottlenose dolphins. *Effects of Noise on Aquatic Life*; Den Haag, Netherlands.
- 2018** Using generalised estimating equations to describe marine soundscapes: A case study from Western Australia. *International Statistical Ecology Conference*. St Andrews, Scotland.
- 2018** Effects of human activity on the acoustic habitats and behaviour of bottlenose dolphins in Western Australia. *British Ecological Society Annual Conference*. Birmingham, England.
- 2018** Spatial and temporal variation in dolphin acoustic habitats. *UK Acoustics Network Underwater Noise Conference*. Oxford, England.
- 2018** Spatio-temporal patterns in underwater sound within an urban estuarine river. *175th Meeting of the Acoustical Society of America (ASA)*. Minnesota, USA.

PUBLIC ENGAGEMENT (last 3yrs only)

MEDIA COVERAGE

2021	Times Radio	Interview	Sperm whales use cultural learning to avoid whalers
2020	BBC Countryfile	Feature	Increasing numbers of seals in the Solent
2020	Wave 105 Radio	Interview	Isle of Wight marine mammal survey
2020	Island Echo	News Report	Islanders asked to contribute to Isle of Wight marine mammal sightings
2020	The Guardian	Interview	Seal the Deal: Amorous mammals forced to content with cruise ships
2019	Hakai Magazine	Interview	Canary Island whales see a sudden spike in ship strike
2019	BBC News Online	Interview	Does climate change mean marine life is moving?
2019	The Conversation	Article	Thames humpback whale killed by ship – the casualty of a global problem
2019	ITV News	News Report	Australian Shark Attack

2019	Acoustics Today	Feature	Ask an Acoustician – Dr Sarah Marley
2019	BBC Radio 4 Today	Interview	Walrus and climate change
2019	The Conversation	Article	Marine life typically thrives in the tropics – so why do whales prefer the poles?
2018	Reuters UK	News Report	Round the world yachtsman recording unique underwater soundscape
2018	That's TV Solent	News Report	Science and sailing come together in world record attempt

PUBLIC SEMINARS

2019	Conference Public Night	Den Haag, Netherlands	What is a Soundscape?
2019	Pint of Science	Portsmouth, UK	Commotion in the Ocean
2018	Dolphin Watch	Perth, WA	Dolphin Citizen Science
2018	Girl Guides Science Night	Minnesota, USA	What's That Sound?
2018	Pint of Science	Perth, WA	Commotion in the Ocean
2018	Laboratory	Perth, WA	My Science Hero
2018	Perth Science Festival	Perth, WA	Commotion in the Ocean

SCHOOL VISITS

2019	University Juniors Program	Portsmouth, UK	Learning to Speak Dolphin
2019	Carroll University	Minnesota, USA	Studying Marine Mammal Behaviour
2018	Hillary's Primary School	Perth, WA	Caring for Dolphins
2018	International School of Western Australia	Perth, WA	Studying Dolphins
2018	Tapping Primary School	Perth, WA	Citizen Science and Dolphins
2018	Mature-Aged Learners Association	Mandurah, WA	Introduction to Marine Mammals and Citizen Science

ADDITIONAL QUALIFICATIONS

- BDMLR Marine Mammal Medic
- Driving Licence and Defensive Driving Training
- First Aid Certificate
- JNCC Marine Mammal Observer
- MCA Marine Radio Operator Licence
- Mental Health First Aid
- RYA Powerboat Level 2
- RYA (Theory) Day Skipper
- Small Boat First Aid
- Western Australian Recreational Skipper

SCIENTIFIC SERVICE

ACADEMIC PUBLISHING

- 2020-** Associate Editor, *Methods in Ecology and Evolution*
- 2016-21** Associate Editor, *Austral Ecology*
- 2016-20** Associate Editor (Blog), *Journal of Animal Ecology*
- 2014-** Peer Reviewer, *Aquatic Mammals, Austral Ecology, Canadian Journal of Zoology, Ecology and Evolution, Environmental Pollution, Frontiers in Marine Science, Frontiers in Zoology, Journal of the Acoustical Society of America, Marine Biology, Marine Ecology Progress Series, Marine Mammal Science, Marine Policy, PloS One, Scientific Reports*

COMMITTEE POSITIONS

- 2021-** Elected Member of School Executive Committee, University of Portsmouth
- 2020-** Member of School Education Committee, University of Portsmouth
- 2019-** Member of Quantitative Ecology Special Interest Group, British Ecological Society
- 2019-21** Member of School Equality, Diversity and Inclusivity Committee, University of Portsmouth
- 2018-** Member of Underwater Sound Forum, UK Gov Marine Science Coordination Committee
- 2016-18** Elected National Councillor, Australian Marine Science Association
- 2016-18** Elected Communications Officer, Australian Marine Science Association
- 2015-18** Elected Vice-Chair, Australian Marine Science Association (Western Australia)
- 2013-15** Elected Student Representative, Australian Marine Science Association (Western Australia)

CONFERENCE ROLES

- 2021-** Media Committee, Effects of Noise on Aquatic Life (Berlin, Germany)
- 2019** Abstract Reviewer, World Marine Mammal Congress (Barcelona, Spain)

- 2019** **Session Chair**, International Bioacoustics Congress (Brighton, England)
- 2019** **Abstract Reviewer**, International Bioacoustics Congress (Brighton, England)
- 2018-19** **Media Committee**, Effects of Noise on Aquatic Life (Den Haag, Netherlands)
- 2018** **Session Chair**, British Ecological Society Annual Conference (Birmingham, England)
- 2018** **Scientific Committee**, Australian Marine Science Association Conference (Perth, Australia)
- 2015-16** **Media Committee**, Effects of Noise on Aquatic Life (Dublin, Ireland)
- 2015-16** **Organising Committee**, Marine and Coastal Research Network Conference (Perth, Australia)
- 2014-16** **Organising Committee**, Australian Marine Science Association Annual Student Conference (Rottnest Island, Australia)

GRANT REVIEWS

- 2020-21** **UKRI COVID-19 Grant Extension Allocation Committee**, University of Portsmouth
- 2016-** **Grant Reviewer**, British Ecological Society

THESIS EXAMINATION

- 2021** **PhD External Examiner**, University of Southampton
- 2021** **MRes External Examiner**, Curtin University
- 2019** **PhD Internal Examiner**, University of Portsmouth

LEADERSHIP, MENTORING AND TRAINING

- 2020-21** **Faculty of Science Mentoring Circle**, University of Portsmouth
Group mentoring with 12 other early-career academic staff
- 2018-20** **School of Biological Sciences Mentoring Scheme**, University of Portsmouth
Mentored by Dr Gordon Watson
- 2018-20** **Women in Ecology Mentoring Scheme**, British Ecological Society
Mentored by Dr Katherine Yates (Salford University)
- 2013-16** **Work Experience and Study Abroad Scheme**, Curtin University
Mentored nine international students
- 2013-15** **Dolphin Research Project**, Curtin University
Trained over 80 volunteers
- 2012-18** **Dolphin Watch**, Western Australian Department of Conservation
Trained over 1,000 citizen scientists
- 2011-14** **Geographe Bay Field Season**, Southwest Whale Ecology Study
Trained over 40 volunteers

REFERENCES

RESEARCH

Professor Christine Erbe

Director

Centre for Marine Science and Technology,
Curtin University

c.erbe@curtin.edu.au

Dr Ana Sequeira

Senior Researcher and Pew Marine Fellow
Oceans Institute,
University of Western Australia

ana.sequeira@uwa.edu.au

TEACHING

Dr Alessandro Siani

Associate Head (Students)

School of Biological Sciences,
University of Portsmouth

alessandro.siani@port.ac.uk

Dr Ian Hendy

Course Leader BSc Marine Biology
Institute of Marine Sciences,
University of Portsmouth

ian.hendy@port.ac.uk