

DR SARAH MARLEY

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Education

- 2013-17** PhD Applied Physics; *Curtin University, Australia*
2008-09 M.Res. Marine Mammal Science; *University of St Andrews, Scotland*
2004 –08 B.Sc. Zoology (Hons); *University of Aberdeen, Scotland*

Key Teaching Experience

- 2018** Lecturer in Marine Vertebrate Zoology; University of Portsmouth, UK [**Present**]
2018 Unit Co-Coordinator (Subsea Engineering); Curtin University, Western Australia
2013 Lecturer (Biology); University of Notre Dame, Western Australia
2013 Tutor (Science Communication); University of Western Australia, Western Australia
2012-18 Lecturer (Marine/Quantitative Ecology); Curtin University, Western Australia
2012-18 Science Communicator; Freelance, Western Australia
2011-12 Outreach Science Communicator; Scitech Discovery Centre, Western Australia
2007-08 Biology Education Assistant; University of Aberdeen, Scotland

Key Research Experience

- 2018** Postdoctoral Researcher; University of Western Australia, Western Australia
2017-18 Postdoctoral Researcher; Curtin University, Western Australia
2017-18 Environmental Consultant; ERM, Western Australia
2012-18 Research Scientist; Dolphin Watch, Western Australia
2011-14 Field Coordinator; Southwest Whale Ecology Study (SouWEST), Western Australia
2010-16 Research Assistant; Curtin University, Western Australia

Additional Experience

- 2012** Scientific Editor; Curtin University, Western Australia
2010 Field Volunteer; Southwest Whale Ecology Study (SouWEST), Western Australia
2010 Marine Naturalist; Oceanic Cruises, Western Australia
2010 Field Volunteer; Centre for Whale Research (CWR), Western Australia
2010 Field Volunteer; Macquarie University, New South Wales
2008 Field Volunteer; Sea Watch Foundation, Scotland
2008 Bosun / Naturalist; The Majestic Line, Scotland
2007 Field Volunteer; Tethys Research Institute, Greece
2007 Field Volunteer; University of Aberdeen Lighthouse Field Station, Scotland
2007 Public Affairs Assistant; Royal Society for the Protection of Birds (RSPB), Scotland
2006-07 Science Presenter; TechFest Science Festival, Scotland

Honours and Awards

- 2018** **Winner:** American Elasmobranch Society Young Professional Scholarship
- 2017** **Highly Commended:** Australian Marine Science Association Allen Award
- 2016** **Winner:** Curtin University Postgraduate Student Association Excellence Award
- 2016** **Finalist:** IOC of UNESCO and the Institute of Marine Engineering, Science and Technology (IMarEST) Western Australian Marine Studies Award
- 2015** **Finalist:** FameLab Australia (vimeo.com/129411075)
- 2015** **People's Choice:** FameLab Western Australia
- 2014** **Winner:** Asia-Pacific 3-Minute-Thesis (3MT) Competition (youtu.be/AOCdFpUIIVo)
- 2014** **Winner and People's Choice:** Curtin University 3-Minute-Thesis (3MT) Competition
- 2007** **Winner:** BBC Wildlife Young Environmental Journalist of the Year Award

Leadership and Service Achievements

Academic Publishing

- Associate Editor: *Austral Ecology*
- Blog Editor: *Journal of Animal Ecology*
- Peer Reviewer: *Aquatic Mammals*; *Austral Ecology*; *Canadian Journal of Zoology*; *Frontiers in Zoology*; *Journal of the Acoustical Society of America*; *Marine Biology*; *Marine Mammal Science* (<http://publons.com/a/1309877/>)

Committee Positions

- 2018- Member; Underwater Sound Forum
- 2016-18 National Councillor; Australian Marine Science Association
- 2016-18 Communications Officer; Australian Marine Science Association
- 2015-18 Vice-Chair; Australian Marine Science Association (Western Australia)
- 2013-15 Student Representative; Australian Marine Science Association (Western Australia)

Conference Organisation

- Effects of Noise on Aquatic Life (Den Haag, Netherlands; 2019)
- Australian Marine Science Association National Conference (Perth, Western Australia; 2019)
- Effects of Noise on Aquatic Life (Dublin, Ireland; 2016)
- Curtin University Marine and Coastal Research Network (Perth, Western Australia; 2016)
- Australian Marine Science Association Western Australian Student Conference (Rottnest Island, Western Australia; 2014, 2015 and 2016)

Supervision and Training

- Masters students supervised: 3
- Honours students supervised: 4
- Study Abroad and Work Experience students supervised: 9
- Over 60 volunteers participating in a dolphin research project
- Over 25 volunteers participating in a whale research project
- Over 1,000 members of the public participating in a citizen-science project

Peer-Reviewed Publications

Marley, S.A., Salgado Kent, C.P., Erbe, C. 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. DOI: 10.1038/s41598-017-13252-z.

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. DOI: 10.1038/sdata.2017.126.

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*. DOI: 10.1007/s40857-017-0106-7.

Marley, S.A., Erbe, C., Salgado Kent, C.P., Parsons, M.J.G. and Parnum, I.M. (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. DOI: 10.3389/fmars.2017.00197.

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: 243. DOI: 10.1007/s10750-016-3061-7.

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. DOI: 10.1121/2.0000286.

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. DOI: 10.1093/icesjms/fsw037.

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. DOI: 10.1007/s40857-015-0038-z.

Recalde Salas, A., Salgado Kent, C.P., Parsons, M.J.G., **Marley, S.A.** and McCauley, R.D. (2014) Non-song vocalizations of pygmy blue whales in Geographe Bay, Western Australia. *The Journal of the Acoustical Society of America*, 135(5), EL-213-EL218. DOI: 10.1121/1.4871581.

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. DOI: 10.1578/AM.39.2.2013.107.

Scientific Grants and Funding

- 2017** Australian Acoustical Society Research Grant [31,000 AUD]
- 2017** Society for Marine Mammalogy Student 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 [2,000 AUD]
- 2014** Holsworth Wildlife Research Endowment [7,500 AUD]
- 2013** Australian Acoustical Society (AAS) Education Fund [5,000 AUD]
- 2013** Holsworth Wildlife Research Endowment [7,500 AUD]

2013-17 Curtin University International Postgraduate Research Scholarship [120,000 AUD]

2008-09 Carnegie Trust Postgraduate Bursary [4,000 GBP]

2004-08 Student Awards Agency for Scotland Young Students' Bursary [12,000 GBP]

Invited Talks

2018 Spatio-temporal patterns in underwater sound within an urban estuarine river. *175th Meeting of the Acoustical Society of America*. Minnesota, USA.

2017 Commotion in the Ocean. *Science Teachers' Association of Western Australia (STAWA) Future Science Conference*. Perth, Western Australia.

2017 Where the Noisy Things Are: Examining spatio-temporal patterns in underwater soundscapes. *International Congress for Conservation Biology*. Cartagena, Colombia.

2016 Something worth tweeting about. *Perinatal Society of Australia and New Zealand Western Australian Conference*. Perth, Western Australia.

Conference Presentations

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 the acoustic habitat of bottlenose dolphins. *UK Acoustics Network Underwater Noise Conference*. Oxford, England.

2018 Using generalised estimating equations to describe marine soundscapes: A case study from Western Australia. *International Statistical Ecology Conference*. St Andrews, Scotland.

2017 Acoustic habitats and behavioural responses of bottlenose dolphins in Western Australia. *Society for Marine Mammalogy Biennial Conference*. Halifax, Canada.

2016 Coastal Dolphins and Noisy Environments: Sound sources, soundscape variability, and dolphin behavioural responses. *Effects of Noise on Aquatic Life*. Dublin, Ireland.

2016 Marine Bioacoustics: Physics with a Porpoise. *Marine and Coastal Research Network Conference*. Perth, Western Australia.

2014 Behavioural and acoustical responses of coastal dolphins to underwater noise. *Australian Marine Sciences Association WA Student Conference*. Rottnest Island, Western Australia.

2013 Pygmy blue whale responses to vessel traffic during migration through Geographe Bay, south-western Australia. *Society for Marine Mammalogy Biennial Conference*. Dunedin, New Zealand.

2013 Southwest Whale Ecology Study (SouWEST): An integrated collaborative project using multiple platforms to investigate the ecology and behaviour of baleen whales in southwestern Australia. *3rd Biennial Southwest Marine Conference*. Dunsborough, Western Australia.

2011 When Seals Attack: Aggression in grey seals outside of the breeding season. *Society for Marine Mammalogy UK Student Conference*. St Andrews, Scotland.

Public Talks

I am an award-winning science communicator, and have been invited to participate in numerous science communication events around Western Australia. This has amounted to over 30 talks in the period 2012 – 18. I am also regularly invited to speak at schools and community groups.