

CURRICULUM VITAE

PERSONAL INFORMATION

Professor David Lusseau



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RESEARCH INTERESTS

I am a sustainability scientist interested in estimating the conservation and sustainability impacts of human disturbances on wildlife and habitats. This involves also assessing the best governance and management actions needed to maintain sustainable exploitation patterns given the socioecological contexts in which human encroach on wild environments. I work across a range of fields to address these questions and currently maintain two main lines of enquiries:

1. using biological insights and mathematical models to understand the contexts in which the exposure of wildlife to multiple stressors will have consequences for the conservation status of their population.
2. developing computational human ecology to understand the drivers of decisions in human-wildlife interactions and how to best manage them to yield sustainable outcomes.

Studies focus on marine sustainability, that is we carry out research to determine how we can maximise the contributions of blue economies for people and their environment.

EMPLOYMENT

- 2020-present • [Professor of Marine Sustainability](#)
Technical University of Denmark
- 2016-2020 • [Personal Chair \(Behavioural Biology\)](#)
University of Aberdeen, Aberdeen, UK
- 2014-2016 • [Reader](#)
University of Aberdeen, Aberdeen, UK
- 2011-2014 • [MASTS Senior Lecturer](#)
University of Aberdeen, Aberdeen, UK
- 2010-2011 • [MASTS Lecturer](#)
University of Aberdeen, Aberdeen, UK
- 2007-2010 • [Lecturer in Marine Populations](#)
University of Aberdeen, Aberdeen, UK
- 2005-2007 • [Izaak Walton Killam Postdoctoral Fellow](#)
Dalhousie University, Halifax, NS, Canada
- 2003-2005 • [Research Fellow](#)
University of Aberdeen, Aberdeen, UK

EDUCATION

PhD in Zoology
University of Otago, Dunedin, New Zealand (2003)

B.Sc. (cum laude) Marine Biology
Florida Institute of Technology, Melbourne, FL, USA (1996)

Learned societies Elected Fellow of the [Royal Statistical Society](#) (2009), Member of the [RSE Young Academy of Scotland](#) (2011) and Fellow of the [Royal Society of Biology](#) (2016)

PROFESSIONAL EXPERIENCE

- External activities
- UN World Ocean Assessment III
 - Pool of Experts (2021-2025)
 - HELCOM
 - HOLAS III assessment (2021-)
 - ICES
 - Working Group on Bycatch (2022-)
 - Washington State Academy of Sciences (2020)
 - [Member](#) of the Committee on Underwater Acoustics and Disturbance
 - UN World Ocean Assessment II
 - Pool of [Experts](#) (2018-2021)
 - [Lead](#) of the Marine Mammal chapter (2018 - 2021)
 - International Whaling Commission
 - [Member](#) of the Scientific Committee (2005- 2013)
 - UK [delegate](#) (2009-2013)
 - [Chair](#) – Large-Scale Whalewatching Experiment Initiative (2008-2013)
 - International Union for Conservation of Nature
 - [Member](#) of the CEESP/SSC Sustainable Use and Livelihoods Specialist Group (2011-)
 - Independent advice to CITES– sustainability of ivory exploitation (2016)
 - [Member](#) of the Species Survival Commission Cetacean Specialist Group (2007-)
 - Conservation of Migratory Species of Wild Animals
 - [Member](#) of Intersessional Working Group on Culture and Social Complexity (2015-)
 - UK Joint Nature Conservation Committee
 - [Consultant](#) - Assess the risk to the marine mammal populations from renewable energy devices (2011)
 - Marine Scotland / Scottish Natural Heritage / UK Department of Energy & Climate Change
 - [Consultant](#) - Develop a framework to estimate and manage the population consequences of disturbances on marine mammals in UK waters (2011-2013)
 - US National Oceanographic and Atmospheric Administration
 - [Consultant](#) – Western Regional Center: impact of recreational activities on killer whales (2008-2010)
 - [Special Advisor](#) – South East Regional Office: Managing human-dolphin interactions in the US south-eastern states (2010)
 - Canada Department of Fisheries and Oceans
 - Panel [member](#) “Review of a Risk-Based Framework for Assessing Cumulative Impacts of Marine Development Projects on Marine Mammals” (2014-2015)
 - Hong Kong Special Administrative Region Government

- Panel [member](#) “Assessment and Recommendations for Management Strategies for Chinese White Dolphin in the Pearl River Estuary” (2008)
 - ICES Advisory Committee
 - Panel [member](#) – “review the Working Group on Marine Mammal Ecology” (2016)
 - Royal Society of Edinburgh
 - Panel [member](#) “response to the Scottish Government Land Use Strategy” (2016)
- Other research applications
- US Office of Naval Research
 - [Member](#) - working group on Population Consequences of Disturbances (2009-2018)
 - US Army Research Office of the Director
 - [Member](#) - working group to define Network Science (2009)
- Communications
- Experience communicating in a wide range of fora including consultation and advising using sensitive and confidential information as well as extensive public engagement experience
 - [Witness](#) UK Parliament EFRA Committee
 - [Expert witness](#) for UK Crown Prosecution
 - Experience providing [Science Briefs](#) for senior civil servants and ministers
 - [Public Engagement](#) (15 years experience) -recent: Climate Week, Skeptics in the Pub, Café Scientifique, PechaKucha, Bright Club (stand-up comedy), The Conversation UK
 - [Media experience](#): print, radio, TV national and international news outlet (e.g., BBC News, Channel 4 News, Le Monde, The Atlantic), feature documentaries (e.g., Discovery Channel) and magazines (e.g. National Geographic). Scientific adviser (e.g., BBC Blue Planet 2)
 - Articles for *The Conversation*:
 - Do whales attempt suicide? (5 Nov 2015; 341,271 reads)
 - Sperm whales have local dialects, new study shows (8 Sep 2015; 122,312 reads)
 - Whatever our emotions tell us, not all whaling is the same (28 Jul 2015; 8,877 reads)
 - Is it really best for the environment to remove all traces of oil and gas production in the North Sea? (30 Aug 2016; 6,049 reads)
 - Obituary: Tilikum 1981-2017 (9 Jan 2017; 4,505 reads)

TEACHING EXPERIENCE

- Courses and Programmes
- Programme [coordination](#)
 - BSc in Animal Behaviour (2015-2018) (developed the new programme)
 - MSc in Applied Marine and Fisheries Ecology (2007-2014) (redesigned the programme introducing modular delivery)
 - Recent Course [coordination](#)
 - Level 3 (Sustainability Solutions)
 - Level 4 (Marine Mammalogy)
 - Level 5 (Experimental Design and Analyses; Complex Study Design)
 - Contributions to Level 1 to 5 courses (conservation-ecology-behaviour-physiology – statistical modelling – network science)

- External examination – University of Glasgow – MSc Quantitative Methods in Biodiversity, Conservation & Epidemiology
- Supervision
- 16 BSc (honours) students, 22 MSc students
 - **Doctoral students** (with funding source):
 - Dr. F Christiansen (2013) Informing the links between behaviour and vital rates in a capital breeding mysticete to measure the effects of whalewatching activities (UoA/Ulceland/IFAW)
 - Dr. E Pirotta (2014) Behaviourally-mediated effects of human disturbances on bottlenose dolphin vital rates (SFC-MASTS) (PhD received RSPB Conservation Award 2015)
 - Dr. M Machairopoulou (2014) Zooplankton off the Firth of Forth, Scotland an acoustic study (UoA/Marine Scotland Science)
 - Dr. D Murphy (2015) Socio-ecological drivers of primate social network dynamics and implications for individual fitness (NERC)
 - Dr. D Deros (2017) Multi-tissue transcriptomic responses to graded calorie restriction (BBSRC)
 - Dr C Green (2017) Multi-tissue metabolomic analysis of responses to graded calorie restriction (BBSRC)
 - Dr. B Cheney (2017) Temporal variation in the demographics and dynamics of a bottlenose dolphin population (UoA)
 - Dr. Roman Susdorf (2018) The impact of sea lice on wild Atlantic salmon population dynamics (Marine Scotland Science)
 - Dr. Francesca Mancini (2018) Managing wildlife tourism: achieving sustainability in socioecological systems (Scottish Natural Heritage)
 - Dr. Rebecca Smith (2021) The socioecology and conservation of the Hooded Capuchin in the Paraguayan Upper Paraná Atlantic Forest. (Fundación Para La Tierra)
 - Dr. Joyce Marumo (2021) Social and environmental drivers of milk production in dairy cows (Commonwealth)
 - Agnieszka Monczak (2018-2022) Monitoring soundscapes as a mean to understand the influence of climate variability and coastal urbanization on estuaries of the southeast USA (Charleston Aquarium)
 - Rosie Baillie (2019-2023) The socioecological drivers of tourist decisions and their influence on wildlife tourism sustainability (NERC)
 - Anne-Cathrine Linder (2022-2025) The contribution of cultural ecosystem services to trade-offs between human well-being and biodiversity conservation (DK-DFF)
 - **Postdoctoral Fellows** (with funding source):
 - Dr M Marcoux (2011-2012) cooperation on social networks (NSERC)
 - Dr. E Hobson (2014-2016), social network dynamics (NMBIOS)
 - Dr S Nattrass (2013-2015), rapid assessment of the population consequences of disturbances (US Office of Naval Research)
 - Dr. J Sahu (2015-2018) the health black box in population consequences of disturbances studies (US Office of Naval Research)

CURRENT RESEARCH GRANTS

- EU-Biodiversa (2022-2025), principal investigator: Enhancing MPAs' role in restoring biodiversity while maintaining access to ecosystem services
 - DK-DFF (2021-2025), principal investigator: The contribution of cultural ecosystem services to trade-offs between human well-being and biodiversity conservation
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- HORIZON-CL6-2021-GOVERNANCE-01 (2022-2026), work package lead: User-oriented Solutions for Improved Monitoring and Management of Biodiversity and Ecosystem services in vulnerable European Seas
- HORIZON-CL6-2021-BIODIV-01 (2022-2026), task lead: Marine Systems Approaches for Biodiversity Resilience and Ecosystem Sustainability.

PROFESSIONAL RESPONSIBILITIES

- **Invited Speaker**, EUDataViz'21, 23-25 Nov 2021, Brussels
- **Keynote speaker**, Nordic Society Oikos, 2-5 March 2020, Reykjavik, Iceland.
- **Chair**, Assessment Committee, France High Council for Evaluation of Research and Higher Education (2019 and 2021)
- Marine Alliance for Science and Technology for Scotland Pooling Initiative
 - **Member** of the Oil and Gas Forum Steering Group (2015-)
 - **Member** of the Marine Stressors Forum (2015-)
 - **Chair** of the Annual Science Meeting Organising Committee (2012-2013)
- Scottish Alliance for Geoscience, Environment, and Society Pooling Initiative
 - **Member** - Society Theme (2015-)
- Réseau National des Systèmes Complexes
 - **Member** - Social Network Analysis in Animal Societies Network (2013-)
- Visiting **fellow** Polish Academy of Sciences Mammal Research Institute (2012)
- **Member** - Scottish Primate Research Group (2010-)
- Royal Society of Edinburgh
 - Grant Committee **member** (2014-2017)
- Scottish Institute for Advanced Studies
 - **Member** -Pluralism in Crisis (2010)
- Scottish Crucible (selected, 1st cohort, 2009)

INSTITUTIONAL RESPONSIBILITIES

- DTU Aqua **PhD School lead** (2023-)
- **PhD Committee** – DTU Aqua (2021-)
- **Lead** - Sustainability theme - Aurora network (2017-2019)
 - Consortium of European Universities: <http://aurora-network.global>
- REF2021 School Impact Case Studies **Coordinator**
- Gender Equality: **Lead** - School Steering Group (2015-2016)
- Senatus Academicus
 - School **Senator** (2012 - present) (re-elected 2016)
 - Senate Review Implementation Group (2015)
 - Member of the Senate Business Committee (2016- present)
- **Lead** - Environment - Aberdeen Institute of Energy
- **Member** - Centre for Sustainable Development / Institute for Conflict, Transition, and Peace Research / International Centre for Aquaculture Research and Development / Health Informatics Research Collaboration / Aberdeen Institute of Energy

EDITORIAL DUTIES

Functional Ecology (Associate Editor, 2014-2019); Scientific Reports (Associate Editor, 2016-2019); Endangered Species Research (Subject Editor, 2014-); Animal Behaviour (elected Editor, 2009-2011); PLoS ONE (Academic Editor, 2007-2009)

SUMMARY

2003-2022: 167 publications, h-index=63, 16,314 citations

Full list at Google Scholar: <https://goo.gl/kW4hx7>

REPRESENTATIVE PUBLICATIONS

1. **Lusseau D.**, Kindt-Larsen L., van Beest F.M. (2023) Emergent interactions in the management of multiple threats to the conservation of harbour porpoises. **Science of The Total Environment** 855: 158936
2. Erskine E., Baillie R. & **Lusseau D.** (2021) Marine Protected Areas provide more cultural ecosystem services than other adjacent coastal areas. **One Earth** 4(8): 1175-1185.
3. Houser D., Derosus D., Douglas A. & **Lusseau D.** (2021) Metabolic response of dolphins to short-term fasting reveals physiological changes that differ from the traditional fasting model. **Journal of Experimental Biology** 224: jeb238915.
4. **Lusseau D.** & Mancini F. (2019) Income-based variation in Sustainable Development Goal interaction networks. **Nature Sustainability** 2(3): 242-247
5. Mancini F., Coghill G.M. & **Lusseau D.** (2019) Quantifying wildlife watchers' preferences to investigate the overlap between recreational and conservation value of natural areas. **J Applied Ecology** 56: 387-397
6. **Lusseau D.** & Lee P.C. (2016) Can we sustainably harvest ivory? **Current Biology** 26: 1-6.
7. Pirotta E. & **Lusseau D.** (2015) Managing the wildlife tourism commons. **Ecological Applications** 25: 729-741.
8. Christiansen F. & **Lusseau D.** (2015) Linking behaviour to vital rates to measure the effects of non-lethal disturbance on wildlife. **Conservation Letters** 8: 424-431.
9. Pirotta E., Harwood J., Thompson P.M., New L., Cheney B., Arso M., Hammond P.S., Donovan C & **Lusseau D.** (2015) Predicting the effects of human developments on individual dolphins to understand potential long-term population consequences. **Proceedings of the Royal Society-B** 282 (1818), 20152109.
10. Barrett L., Henzi S.P. & **Lusseau D.** (2012) Taking sociality seriously: the structure of multi-dimensional social networks as a source of information for individuals. **Philosophical Transactions of the Royal Society B** 367: 2108-2118.
11. **Lusseau D.**, Whitehead H. & Gero S. (2008). Incorporating uncertainty into the study of animal social networks. **Animal Behaviour** 75(5): 1809-1815.
12. **Lusseau D.**, Williams R., Wilson B., Grellier K., Barton T.R., Hammond P.S. & Thompson P.M. (2004) Parallel influence of climate on the behaviour of Pacific killer whales and Atlantic bottlenose dolphins. **Ecology Letters** 7: 1068-1076.
13. **Lusseau D.** & Newman M.E.J. (2004) Identifying the role that animals play in their social networks. **Proceedings of the Royal Society of London B** 271 S6: S477-S481.
14. **Lusseau D.**, Schneider K., Boisseau O.J., Haase P., Slooten E. & Dawson S.M. (2003) The bottlenose dolphin community of Doubtful Sound features a large proportion of long-lasting associations. Can geographic isolation explain this unique trait? **Behavioral Ecology and Sociobiology** 54(4): 396-405.
15. **Lusseau D.** (2003) The emergent properties of a dolphin social network. **Proceedings of the Royal Society of London B** 270 S1: S186-S188.
16. **Lusseau D.** (2003) The effects of tour boats on the behavior of bottlenose dolphins: Using Markov chains to model anthropogenic impacts. **Conservation Biology** 17(6): 1785-1793.

OTHER PUBLICATIONS – 2003-2022

JOURNAL PAPERS - ACADEMIC JOURNALS

2003-2022

17. Smith R.L. & **Lusseau D.** (2022) Modelling habitat suitability for a potential flagship species, the hooded capuchin, of the Paraguayan Upper Paraná Atlantic Forest. **Ecological Solutions and Evidence** 3(3): e12146
18. D Deros, A Kebke, PA Fair, M Styczynski, GD Bossart, A Douglas, ... (2022) Untargeted plasma metabolomic analysis of wild bottlenose dolphins (*Tursiops truncatus*) indicate protein degradation when in poorer health. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics* 42 ...
19. Marumo J.L., Fisher D.N., **Lusseau D.**, Mackie M., Speakman J.R. & Hambly C. (2022) Social associations in lactating dairy cows housed in a robotic milking system. **Applied Animal Behaviour Science** 249, 105589
20. Smith R.L., Rebergen K., Payne C., Megapanos E. & **Lusseau D.** (2022) Dietary plasticity of an understudied primate (*Sapajus cay*) in a biodiversity hotspot: applying ecological traits to habitat conservation in the Upper Paraná Atlantic Forest. **Folia Primatologica** 93 (1): 53-68.
21. Marumo J.L., **Lusseau D.**, Speakman J.R., Mackie M. & Hambly C. (2022) Influence of environmental factors and parity on milk yield dynamics in barn-housed dairy cattle. **Journal of dairy science** 105 (2): 1225-1241.
22. Ferrer-i-Cancho R., **Lusseau D.** & McCowan B. (2022) Parallels of human language in the behavior of bottlenose dolphins. **Linguistic Frontiers** 5 (1): 5-11.
23. García-Flores L.A., Green C.L., Mitchell S.E., Promislow D.E.L., **Lusseau D.**, Douglas A. & Speakman J.R. (2021) The effects of graded calorie restriction XVII: Multitissue metabolomics reveals synthesis of carnitine and NAD, and tRNA charging as key pathways. **Proceedings of the National Academy of Sciences** 118: e2101977118.
24. Liu M., Lin M., Tang X., Dong L., Zhang P., **Lusseau D.** & Li S. (2021) Group size of Indo-Pacific humpback dolphins (*Sousa chinensis*): an examination of methodological and biogeographical variances. **Frontiers in Marine Science** 8:1323.
25. Liu M., Lin M., **Lusseau D.** & Li S. (2021) Intra-population variability in group size of Indo-Pacific humpback dolphins (*Sousa chinensis*). **Frontiers in Marine Science** 8: 711.
26. Liu M., Lin M., **Lusseau D.** & Li S. (2021) The biogeography of group sizes in humpback dolphins (*Sousa* spp.). **Integrative Zoology** doi: 10.1111/1749-4877.12542
27. Self H., Stack S.H., Currie J.J. & **Lusseau D.** (2021) Tourism informing conservation: The distribution of four dolphin species varies with calf presence and increases their vulnerability to vessel traffic in the four-island region of Maui, Hawai'i. **Ecological Solutions and Evidence** 2: e12065.
28. Green C.L., Mitchell S.E., Deros D., García-Flores L.A., Wang Y., Chen L., Han J.D.J., Promislow D.E.L., **Lusseau D.**, Douglas A. & Speakman J.R. (2021) The effects of graded levels of calorie restriction: XVI. Metabolomic changes in the cerebellum indicate activation of hypothalamocerebellar connections driven by hunger responses. **The Journals of Gerontology: Series A** 76: 601-610.
29. Deros D., Sahu J., Douglas A., **Lusseau D.** & Wenzel M. (2021) Comparative genomics of cetartiodactyla: energy metabolism underpins the transition to an aquatic lifestyle. **Conservation Physiology** 9: coaa136
30. Mancini F., Leyshon B., Manson F., Coghill G. & **Lusseau D.** (2020) Monitoring tourists' specialisation and implementing adaptive governance is necessary to avoid failure of the wildlife tourism commons. **Tourism Management** 81: 104160

31. New L.F., **Lusseau D.** & Harcourt R. (2020). Dolphins and boats: when is a disturbance, disturbing? **Frontiers in Marine Science** 7: 353. doi:10.3389/fmars.2020.00353
32. Deros D., Ten Doeschate M., Brownlow A.C., Davison N.J. & **Lusseau D.** (2020) Towards new ecologically relevant markers of health for cetaceans. **Frontiers in Marine Science** 7: 367. doi: 10.3389/fmars.2020.00367/
33. Sun D., Liu F., Mitchell S.E., Ma H., Deros D., Wang Y., Han J.D.J., Promislow D.E.L, **Lusseau D.**, Douglas A., Speakman J.R. & Chen L. (2020) The effects of graded levels of calorie restriction XV: phase attractors reveal distinct behavioral phenotypes. **Journal of Gerontology A** 75(5): 858-866.
34. Green C.L., Mitchell S.E., Deros D., Wang Y., Chen L., Han J.D.J., Promislow D.E.L., **Lusseau D.**, Douglas A. & Speakman J.R. (2020) The effects of graded levels of calorie restriction XIV: global metabolomics screen reveals brown adipose tissue changes in amino acids, catecholamines, and antioxidants after short-term restriction in C57BL/6 mice. **Journal of Gerontology A** 75(2): 218-229.
35. Nowak K., Lee P.C., Marino J., Mkono M., Mumby H., Dobson A., Harvey R., Lindsay K., Lusseau D. & Sillero-Zubiri C. (2019) Trophy hunting: bans create opening for change. **Science** 366(6464): 434-435.
36. Deros D. & **Lusseau D.** (2019) Using taxonomically-relevant condition proxies when estimating the conservation impact of wildlife tourism effects. **Tourism Management** 75: 547-549.
37. Awad A., Pang W., Lusseau D. & Coghill G.M. (2019) A Hexagonal Cell Automaton Model to Imitate Physarum Polycephalum Competitive Behaviour. **The 2018 Conference on Artificial Life** (MIT Press): 203-210.
38. Green C.L., Soltow Q.A., Mitchell S.E., Deours D., Wang Y., Chen L., Han J.D.J., Promislow D.E.L., **Lusseau D.**, Douglas A., Jones D.P. & Speakman J.R. (2019) The effects of graded levels of calorie restriction XIII: Global metabolomics screen reveals graded changes in circulating amino acids, vitamins, and bile acids, in the plasma of C57BL/6 mice. **Journal of Gerontology A** 74(1): 16-26.
39. Pirotta E., Booth C., Costa D., Fleishman E., Kraus S., **Lusseau D.**, Moretti D., New L.F., Schick R., Schwarz L., Simmons S., Thomas L., Tyack P., Weise M., Wells R. & Harwood J. (2018) Understanding the population consequences of disturbance. **Ecology and Evolution** 8(19): 9934-9946
40. Susdorf R., Salama N.K.G., Todd C.D., Hillman R.J., Elsmere P. & **Lusseau D.** (2018) Context-dependent Sea Louse Effect on Body Condition of Wild Atlantic Salmon. **Marine Ecology Progress Series** 606: 91-104.
41. Mancini F., Coghill G.M. & **Lusseau D.** (2018) Using social media to quantify spatial and temporal dynamics of wildlife tourism activities. **PLoS ONE** 13(7), e0200565(bioRxiv doi:10.1101/093112)
42. Susdorf R., Salama N.K.G. & Lusseau D. (2018) Influence of body condition on the population dynamics of Atlantic salmon with consideration of the potential impact of sea lice. **Journal of Fish Diseases** 41 (6): 941-951.
43. Lee P.C., Lindsay K.W., Gobush K.S., Reeve R., Hepworth R. & **Lusseau D.** (2018) Conserving Africa's remaining elephants and ending the threat of ivory trade: the "Big Five" proposals for CITES. **Pachyderm** 57: 125-127.
44. Mitchell S.E., Tang Z., Kerbois C., Delville C., Deros D., Green C.L., Wang Y., Han J.-D.J., Chen L., Douglas A., **Lusseau D.**, Promislow D.E.L. & Speakman J.R.S. (2017) The effects of graded levels of calorie restriction: VIII. Impact of short term calorie and protein restriction on basal metabolic rate in the C57BL/6 mouse. **Oncotarget** 8: 17453
45. McFarland R., Murphy D., **Lusseau D.**, Henzi S.P., Parker J.L., Pollet T.V. & Barrett L. (2017) The 'strength of weak ties' among female baboons: fitness-related benefits of social bonds. **Animal Behaviour** 126:101-106.
46. Deros D., Mitchell S.E., Green C.L., Wang Y., Han J.-D.J., Chen L., Promislow D.E.L., **Lusseau D.**, Douglas A. & Speakman J.R.S. (2017) The Effects of Graded Levels of Calorie Restriction: X. Transcriptomic Responses of Epididymal Adipose Tissue. **The Journals of Gerontology: Series A** glx101
47. Deros D., Mitchell S.E., Wang Y., Green C.L., Han J.-D.J., Chen L., Promislow D.E.L., **Lusseau D.**, Douglas A. & Speakman J.R.S. (2017) The effects of graded levels of calorie restriction: XI. Evaluation of the main hypotheses underpinning the life extension effects of CR using the hepatic transcriptome. **Ageing** 9: 1770

48. Green C.L., Mitchell S.E., Deros D., Wang Y., Chen L., Han J.-D. J, Promislow D.E.L., **Lusseau D.**, Douglas A. & Speakman J.R. (2017) The effects of graded levels of calorie restriction: IX. Global metabolomic screen reveals modulation of carnitines, sphingolipids and bile acids in the liver of C57BL/6 mice. **Aging Cell** 16: 529-540.
49. Christiansen F., McHugh K.A., Bejder L., Siegal E.M. & **Lusseau D.**, McCabe E.B., Lovewell G., Wells R.S. (2017) Food provisioning increases the risk of injury in a long-lived marine top predator. **Royal Society Open Science** 3: 160560
50. Mancini F., Coghill G.M. & **Lusseau D.** (2017) Using qualitative models to define sustainable management for the commons in data poor conditions. **Environmental Science & Policy** 67: 52-60.
51. Natrass S & **Lusseau D.** (2016) Using resilience to predict the effects of disturbance. **Scientific Reports** 6: 25539
52. Dostie M.J., **Lusseau D.**, Bonnell T., Clarke PMR, Chaplin G., Kienzle S., Barrett L., Henzi SP (2016) Proof of principle: the adaptive geometry of social foragers. **Animal Behaviour** 119: 173-178.
53. Deros D., Mitchell S.E., Green C.L., Chen L., Han J.-D.J., Wang Y., Promislow D.E.L., **Lusseau D.**, Speakman J.R. & Douglas A. (2016) The Effects of Graded Levels of Calorie Restriction: VII. Topological rearrangement of hypothalamic aging networks. **Aging-US** 8: 917
54. Deros D., Mitchell S.E., Green C.L., Chen L., Han J.-D.J., Wang Y., Promislow D.E.L., **Lusseau D.**, Speakman J.R. & Douglas A. (2016) The Effects of Graded Levels of Calorie Restriction: VI. Impact of Short-term Graded Calorie Restriction on Transcriptomic Responses of the Hypothalamic Hunger and Circadian Signaling Pathways. **Aging-US** 8: 642-63
55. Mitchell S.E., Delville C., Konstantopodos P., Deros D., Green C.L., Han J.D., Wang Y., Promislow D.E., Douglas A., Chen L., **Lusseau D.**, Speakman J.R. (2016) The effects of graded levels of calorie restriction: V. Impact of short term calorie and protein restriction on physical activity in the C57BL/6 mouse. **Oncotarget** 7: 19147-19170
56. Senigaglia V., Christiansen F., Bejder L., Gendron D., Lundquist D., Noren D.P., Schaffar A., Smith J.C., Williams R., Martinez E., Stockin K. & **Lusseau D.** (2016) Meta-analyses of whalewatching impact studies: comparisons of cetacean responses to disturbance. **Marine Ecology Progress Series** 542:251-263.
57. Higham J.E.S., Corkeron P., Allen S., Bejder L. & **Lusseau D.** (2016) Managing whale-watching as a consumptive activity: A paradigm shift. **Journal of Sustainable Tourism** 24: 74-90.
58. Pirotta E., Merchant, N., Thompson, P.M., Barton, T.R., **Lusseau, D.** (2015) Quantifying the effect of boat disturbance on bottlenose dolphin foraging activity. **Biological Conservation** 181, 82-89.
59. Christiansen F., Lynas N.M., **Lusseau D.**, Tschertter U. (2015) Structure and Dynamics of Minke Whale Surfacing Patterns in the Gulf of St. Lawrence, Canada. **PLoS ONE** 10(5): e0126396.
60. **Lusseau D.**, Mitchell S.E., Barros C., Deros D., Green C.L., Chen L., Han J.J.D., Wang Y., Promislow D.E.L., Douglas A. & Speakman J.R. (2015) The effects of graded levels of calorie restriction: IV. Non-linear change in behavioural phenotype of mice in response to short-term calorie restriction. **Scientific Reports** 5: 13198.
61. Mitchell S.E., Delville C., Konstantopodos P., Deros D., Green C.L., Chen L., Han J.D., Wang Y., Promislow D.E., Douglas A., **Lusseau D.**, Speakman J.R. (2015) The effects of graded levels of calorie restriction: III. Impact of short term calorie and protein restriction on mean daily body temperature and torpor use in the C57BL/6 mouse. **Oncotarget** 6, 21: 18314-18337.
62. Mitchell S.E., Delville C., Konstantopodos P., Hurst J., Deros D., Green C.L., Chen L., Han J.J., Wang Y., Promislow D.E., **Lusseau D.**, Douglas A., Speakman J.R. (2015) The effects of graded levels of calorie restriction: II. Impact of short term calorie and protein restriction on circulating hormone levels, glucose homeostasis and oxidative stress in male C57BL/6 mice. **Oncotarget** 6,27:23213-23237.
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OFFICIAL REPORTS AND POLICY BRIEFS

148. David Lusseau (convener), Luciano Dalla Rosa, Karen Evans (subchapter lead member), André Silva Barreto, Mette Skern-Mauritzen, Chul Park (chapter lead member) and Marta Soeffker (2021) **United Nations 2nd World Ocean Assessment – Chapter 6D Marine Mammals**. United Nations: New-York. ISBN: 978-92-1-1-130422-0
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