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&

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NMFS: [https://swfsc.noaa.gov/program.aspx?program_id=162 - Matthew Leslie 16243](https://swfsc.noaa.gov/program.aspx?program_id=162-Matthew%20Leslie%2016243)

EDUCATION

2011-2016 **Ph.D. Marine Biology** (Advisor, Dr. Phillip Morin)
Scripps Institutions of Oceanography – UC San Diego, La Jolla, CA

2009-2011 **M.S. Biological Oceanography**
(Advisors: Phillip Morin, Ronald Burton, and William Perrin)
Scripps Institutions of Oceanography – UC San Diego, La Jolla, CA

1998-2002 **B.S. Zoology, minor in Wildlife Ecology & Management**
(Advisor: Ronald A. Van Den bussche)
Oklahoma State University, Stillwater, Oklahoma

PREVIOUS RESEARCH POSITIONS

2007-2009 – American Museum of Natural History, Institute for Comparative Genomics – Manager
2006-2007 – American Museum of Natural History, Conservation Genetics – Lab Manager
2003-2006 – Wildlife Conservation Society - Madagascar, Cetacean Conservation Field Manager
2003-2006 – Wildlife Conservation Society, Conservation Genetics – Laboratory Assistant
2002-2003 – American Museum of Natural History – NSF REU in Molecular Systematics
2001-2002 – Oklahoma State University - Honors Thesis: "Phylogenetics of Vespertilionid Bats"
2001-2001 – Oklahoma Department of Wildlife Conservation – Black Bear Researcher
2000-2000 – Texas A&M University, Galveston – Marine Mammal Research Program
1999-1999 – Government of New South Wales, Australia –Byron Whale Research Survey

TECHNICAL TRAINING

2013 - Workshop on Molecular Evolution – Colorado State University
2012 - Conservation Genetics – University of Montana

SELECTED AWARDS, HONORS AND GRANTS

Board Member – *Panacetacea*: a non-profit cetacean research and conservation organization in Panama and Costa Rica 2015

Fellowships

Ralph A. Lewin Graduate Fellowship in Marine Biology - SIO 2015
National Science Foundation IGERT - Global Change, Marine Ecosystems and Society 2012
National Science Foundation Graduate Research Fellowship 2008 - 2011
National Science Foundation Graduate Research Fellowship – Honorable Mention 2005

Teaching Awards

Scripps Institution of Oceanography - Graduate Student Teaching Excellence Award 2015
Associate - Center for the Integration of Research, Teaching and Learning 2014

Grants & Research Awards

Lerner-Gray Memorial Foundation Grant – American Museum of Natural History 2012
Sussman Foundation Research Internship 2012
UC-Mexus Small Research Grant 2011

Conference-Related Awards

American Society of Mammalogists Travel Award 2015
Graduate Student Excellence Travel Award – SIO (2) 2014 & 2015
Best Student Poster - SNP Workshop III 2010
Young Scientist Award - SNP Workshop III 2010

PEER-REVIEWED SCIENTIFIC PUBLICATIONS

20. **M.S. LESLIE**, F. I. ARCHER, P. A. MORIN. Genetic inference of population structure in spinner (*Stenella longirostris*) and spotted dolphins (*S. attenuata*) from the eastern tropical Pacific Ocean based on mitochondrial genomes and nuclear SNPs. *In Review* – Marine Mammal Science.
19. H. C. ROSENBAUM, M. MENDEZ, F. KERSHAW, C. POMILLA, **M.S. LESLIE**, K. FINDLAY, P. BEST, T. COLLINS et al. Population structure of humpback whales throughout the Southern Hemisphere and the Arabian Sea. *In Review* – Biological Conservation
18. P.E. ROSEL, B. L. TAYLOR, B. L. HANCOCK-HANSER, P. A. MORIN, F. I. ARCHER, A. KONOPACKI, A. R. LANG, S. L. MESNICK, V. L. PEASE, W. F. PERRIN, K. M. ROBERTSON, **M. S. LESLIE** et al. Molecular genetic markers and analytical approaches that have been used for delimiting marine mammal subspecies and species. *In Review* – Marine Mammal Science.
17. K. K. MARTIEN, **M. S. LESLIE**, P. A. MORIN, F. I. ARCHER, B. L. HANCOCK-HANSER, ROSEL P.E. et al. Analytical approaches to subspecies delimitation with genetic data. *In Press* – Marine Mammal Science.
16. B. L. TAYLOR, B. L. HANCOCK-HANSER, K. K. MARTIEN, P. A. MORIN, F. I. ARCHER, A. R. LANG, **M. S. LESLIE**, S. L. MESNICK, V. L. PEASE, W. F. PERRIN, and K. M. ROBERTSON et al. Guidelines and quantitative standards to improve consistency in cetacean subspecies and species delimitation relying on molecular data. *In Press* – Marine Mammal Science.
15. C. POMILLA, A R. AMARAL, T. COLLINS, G. MINTON, K. FINDLAY, **M. S. LESLIE**, L. PONNAMPALAM, R. BALDWIN, H. C. ROSENBAUM. **2014**. The world's most isolated and distinct whale population: Humpback whales of the Arabian Sea. PloS ONE. DOI: 10.1371/journal.pone.0114162
14. **M. S. LESLIE**. **2014**. The impact of phylogenetic nomenclature on the efficacy of the Endangered Species Act. Conservation Biology. 00:1-9. DOI: 10.1111/cobi.12375.
13. J. D. JACKSON, J. STEELE, P. BEERLI, B. C. CONGDON, C. OLAVARRIA, **M. S. LESLIE**, C. POMILLA, H. C. ROSENBAUM, C. S. BAKER, **2014**. Global genomic diversity and oceanic divergence of humpback whales (*Megaptera novaeangliae*). Proceedings of the Royal Society of London Series B. 281:1786. doi: 10.1098/rspb.2013.3222
12. I. CARVALHO, J. AY LING LOO, T. COLLINS, J. BARENDSE, C. POMILLA, **M. S. LESLIE**, P. BEST, H. ROSENBAUM. **2014**. Does temporal and spatial segregation explain the complex population structure of humpback whales on the coast of West Africa? Journal of Marine Biology. DOI:10.1007/s00227-013-2379-1
11. F. KERSHAW, **M.S. LESLIE**, T. COLLINS, R. MANSUR, M. RUBAIYAT, B.D. SMITH, G. MINTON, R. BALDWIN, ET AL. **2013**. Population differentiation of 2 forms of Bryde's whales in the Indian and Pacific Oceans. Journal of Heredity. doi:10.1093/jhered/est057

10. F. I. ARCHER, P. A. MORIN, B. L. HANCOCK-HANSER, K. M. ROBERTSON, **M. S. LESLIE**, M. BERUBE, S. PANIGADA, B. L. TAYLOR. **2013**. Mitogenomic phylogenetics of fin whales (*Balaenoptera physalus spp.*): genetic evidence for revision of subspecies. PLoS ONE 8(5): e63396. doi:10.1371/journal.pone.0063396
9. B. HANCOCK-HANSER, A. FREY, **M.S. LESLIE**, P. DUTTON, F. ARCHER, P. MORIN. **2013**. Targeted multiplex next-generation sequencing: Advances in techniques of mitochondrial and nuclear sequencing for population genomics. Molecular Ecology Resources. 13(2):254-68. doi10.1111/1755-0998.12059
8. P. J. ERSTS, C. POMILLA, J. KISZKA, S. CERCHIO, H.C. ROSENBAUM, M. VELY, Y. RAZAFINDRAKOTO, J.A. LOO, **M.S. LESLIE**, M. AVOLIO. **2011** Observations of individual humpback whales utilizing multiple migratory destinations in the south-western Indian Ocean. African Journal of Marine Science. 33(2): 333-338. doi: 10.2989/1814232X.2011.600436.
7. G. MINTON, S. CERCHIO, T. COLLINS, P. ERSTS, K.P. FINDLAY, C. POMILLA, D. BENNET, M.A. MEYER, Y. RAZAFINDRAKOTO, P.G.H. KOTZE, W.H. OOSTHUIZEN, **M.S. LESLIE**, N. ANDRIANARIVELO, R. BALDWIN, L. PONNAMPALAM, AND H.C. ROSENBAUM. **2010**. A note on the comparison of humpback whale tail fluke catalogues from the Sultanate of Oman with Madagascar and the East African mainland. Journal of Cetacean Research and Management 11(1):65-68.
6. H. C. ROSENBAUM, C. POMILLA, M. MENDEZ, **M.S. LESLIE**, P.B. BEST, ET AL. **2009**. Population structure of humpback whales from their breeding grounds in the south Atlantic and Indian Oceans. PLoS ONE 4(10): e7318. DOI:10.1371/journal.pone.0007318.
5. M. J. EATON, G. L. MEYERS, S. O. KOLOKOTRONIS, **M. S. LESLIE**, A. P. MARTIN, G. AMATO. **2009**. Barcoding bushmeat: molecular forensic identification of Central African and South American harvested vertebrates. Conservation Genetics. DOI 10.1007/s10592-009-9967-0.
4. M. MENDEZ, **M. S. LESLIE**. **2009**. Cetacean mitogenomics. MitoCommunications; Mitochondrial DNA; DOI: 10.1080/19401730902852976.
3. M. H. ENGEL, N. J.R. FAGUNDES, H. C. ROSENBAUM, **M. S. LESLIE**, P. H. OTT, R. SCHMITT, E. SECCHI, L. DALLA ROSA, S. L. BONATTO. **2008**. Mitochondrial DNA diversity and assessment of the likely feeding ground of the Southwestern Atlantic humpback whale (*Megaptera novaeangliae*) breeding area. Conservation Genetics: 9(5):1253-1262.
2. M. KRETZMAN, L. MENTZER, R. DiGIOVANNI, **M. S. LESLIE**, G. AMATO. **2006**. Microsatellite diversity and fitness in stranded harp seals (*Phoca groenlandica*). Journal of Heredity 97(6):555–560.
1. **M. S. LESLIE**, A. BATIBASAGA, D. S. WEBER, D. OLSEN, AND H. C. ROSENBAUM. **2005**. First record of Blainville's beaked whale *Mesoplodon densirostris* in Fiji. Pacific Conservation Biology 11(4):28-30.

TECHNICAL PUBLICATIONS

I. CARVALHO, J. C. LOO, T. COLLINS, C. POMILLA, J. BARENDSE, P. BEST, R. HERSCH, **M. S. LESLIE**, M. THORNTON, H. C. ROSENBAUM. **2010**. Temporal Patterns of Population Structure of Humpback Whales on the West Coast of Africa (B Stock). SC/62/SH8. Report to the International Whaling Commission.

C. POMILLA, T. COLLINS, G. MINTON, K. P. FINDLAY, **M. S. LESLIE**, L. PONNAMPALAM, R. BALDWIN, H. C. ROSENBAUM. **2010**. Genetic Distinctiveness and Decline of a Small Population of Humpback Whales (*Megaptera novaengliae*) in the Arabia Sea (Region X). SC/62/SH6. Report to the International Whaling Commission.

S. CERCHIO, P. J. ERSTS, C. POMILLA, J. LOO, Y. RAZAFINDRAKOTO, **M. S. LESLIE**, N. ANDRIANRIVELO, G. MINDON, J. DUSHANE, A. MURRAY, T. COLLINS, H. ROSENBAUM. **2009**. Updated estimates of abundance for humpback whale breeding stock C3 off Madagascar, 2000–2006 SC/61/SH7. Report to the International Whaling Commission.

J. C. LOO, C. POMILLA, M. MENDEZ, **M. S. LESLIE**, H. C. ROSENBAUM. **2006**. Assessment of genetic connectivity between breeding regions B and C and feeding areas I, II and III. SC/A06/HW. Report to the International Whaling Commission.

H. C. ROSENBAUM, C. POMILLA, C. OLAVARRIA, C. S. BAKER, **M. S. LESLIE**, *et al.* **2006**. A first and preliminary analysis of mtDNA sequences from humpback whales from breeding stocks A-G and X. SC/A06/HW. SC/58/HW. Report to the International Whaling Commission.

H. C. ROSENBAUM, C. POMILLA, **M. S. LESLIE**, M. MENDEZ, P. B. BEST, T. COLLINS, M. H. ENGEL, P. J. ERSTS, K. P. FINDLAY, P. J. H. KOTZE, M. MEYER, G. MINTON, J. BARENDSE, K. VAN WAEREBEEK AND Y. RAZAFINDRAKOTO. **2006**. Mitochondrial DNA Diversity and Population Structure of Humpback Whales from the Wintering Areas in the Indian and South Atlantic Oceans (Regions A, B, C and X). SC/58/SH13. Report to the International Whaling Commission.

TEACHING AND MENTORSHIP

Training

2014 - The College Classroom – UC San Diego Center for Teaching Development

Teaching Experience

2014 - TA and Lecturer – Scripps Institution of Oceanography. *History of Earth & Evolution*

2014 - TA - Scripps Institution of Oceanography – *Marine Mammal Biology*

****Awarded SIO Graduate Student Teaching Excellence Award**

2013 - Guest Lecturer – Scripps Institution of Ocean. Intro to Marine Conservation Biology

2004 - TA - Columbia University - Conservation Genetics

2004 - Co-Instructor – AMNH-ASCEND Program for inner-city high school students - Biology

2004 - Instructor - Undergraduate Mentors in Environmental Biology

2001-2002 - TA - Oklahoma State University - Collegiate Marching Percussion

Mentoring Experience

Masters of Advanced Studies students in the SIO Marine Biodiversity & Conservation Biology

- 2013-2014 - Elizabeth Huntley Penniman - Currently Media Specialist for Rising Tide Conservation
- 2012-2013 - Dana Kocknowar – Currently Senior Policy Advisor at NYC Mayor's Office
- 2011-2012 - Alexandra Mullen-Ley – Currently Project Manager at FishWise
- 2010-2011 - Justin Garver - Currently Advisor to San Diego City Council President Lightner
- 2009-2010 - Sarah McPherson – Currently a Freelance Science Writer in Washington, D.C.

Capstone Advisor

2011-2012 - Ms. Danielle Davila – UCSD Environmental Systems Undergraduate Thesis ‘Utilizing SNP Markers for Analyzing Stock Boundaries in spinner dolphins (*Stenella longirostris*) in the eastern tropical Pacific Ocean’

2007-2008 - Ms. Greta Meyers - Barnard College at Columbia University and American Museum of Natural History - NSF Research Experience for Undergraduates: 'DNA Barcoding African Bushmeat’

2005-2006 - Ms. Debra Perez – American Museum of Natural History H.S. Science Research Program

SELECTED ACADEMIC SEMINARS/LECTURES

- 2015 - Smithsonian Institution, NMNH, Vertebrate Zoology – Washington, D.C.
- 2014 - U.S. Marine Mammal Commission – Washington, D.C.
- 2014 - NMFS - William F. Perrin Symposium – La Jolla, CA
- 2013 - U.S. Marine Mammal Commission – La Jolla, CA

PROFESSIONAL SERVICE

Academic Committee Service

- 2012 – Present Scripps Institution of Oceanography – Aquarium/Museum Committee
- 2009 – 2012 UCSD Advisory Committee on Sustainability
- 2009 – Present Tissue/DNA Loan Committee – Marine Mammal Collection - SWFSC
- 2006 – 2009 Guidance Committee – Ambrose Monell Cryo Collection - AMNH

Conservation-Related Service

- 2015 International Whaling Commission - Rapporteur Stock Definition Committee
- 2006 International Whaling Commission– Invited Participant

Professional Society Service

- 2015 – Present American Society of Mammalogists – Marine Mammal Committee
- 2015 – Present Society for Marine Mammalogy - Social Media Committee Chair
- 2012 – Present Society for Marine Mammalogy - International Relations Committee
- 2012 – 2013 Society for Marine Mammalogy - *Ad hoc* Committee on Communication
- 2007 – 2008 Consortium for the Barcode of Life

Symposia Organized

2015 *Advanced Techniques in Collections-Based Mammalogy* - American Society of Mammalogists

2007 *Conservation Genetics Symposium* - American Genetics Association

Reviewing:

Peer-Reviewed Journals: *Marine Mammal Science*, *Mitochondrial DNA*, *PLoS ONE*,
Royal Society Open Science

Technical Reports: NOAA-SWFSC

Fellowships and Award Nominations: Society for Marine Mammalogy International
Relations Committee,

PUBLIC COMMUNICATION OF SCIENCE

Science Communication Training

2015 - Inspiring Research: Creative Strategies for Communication – UCSD Theater Department

2014 - Science Writing and Journalism – UCSD Extension

2013 - Alan Alda Center for Science Communication – Stony Brook University

2011 - Communicating Ocean Science to Informal Audiences – Birch Aquarium

Invited Public Lectures

2014 The Birch Aquarium – La Jolla, CA

2011 The Ocean Institute – Dana Point, CA

2004 The Explorer’s Club Headquarters – New York, NY

Online/Print Media

Guest Blog – *WildView* – Wildlife Conservation Society

<http://blog.wcs.org/photo/2014/12/08/one-giant-leap-humpback-whales/>

Guest Blog – *Around the Pier* – Scripps Institution of Oceanography

<https://scripps.ucsd.edu/news/2838>

Original Podcast – *On Species at a Time* – Encyclopedia of Life

<http://podcast.eol.org/podcast/dolphins>

Media Quotes:

On the SIO Library Closure:

SDNews.com:

http://www.sdnews.com/view/full_story/12483612/article-Riptide-of-funding-cuts-may-mean-the-end-of-Scripps-library?instance=update1

Eos, Transactions of the American Geophysical Union

<http://onlinelibrary.wiley.com/doi/10.1029/2012EO300003/pdf>

La Jolla Light

http://issuu.com/sdcng/docs/ljvn_03-24-11_class_edit/1

On Bryde's Whales:

National Wildlife Magazine

<https://www.nwf.org/News-and-Magazines/National-Wildlife/Animals/Archives/2015/Brydes-Whales.aspx>

PRESENTATIONS AT PROFESSIONAL MEETINGS

M.S. LESLIE, F.I ARCHER, P.A. MORIN. 2015. Oral Presentation: Inferring Stock Boundaries for the Recovery of Significantly Depleted Pelagic Dolphins Using Next Generation Genetic Tools. American Society of Mammalogists. Jacksonville, FL.

M.S. LESLIE, F.I ARCHER, W.F. PERRIN, P.A. MORIN. 2014. Oral Presentation: Using Next Generation Genetic Tools to Define Stock Boundaries for the Recovery of Significantly Depleted Pelagic Dolphins in the Eastern Pacific. American Society of Mammalogists. Oklahoma City, OK.

M.S. LESLIE, F.I ARCHER, P.A. MORIN. 2012. Poster Presentation: Can whole mitochondrial genomes reveal changes in population abundance of eastern tropical Pacific Ocean dolphins during the late Pleistocene? American Cetacean Society, San Diego CA.

M.S. LESLIE, A. FREY, B.L. HANCOCK, K.M. ROBERTSON, P.A. MORIN. 23 March 2010. Poster presentation: Using custom-designed capture arrays and next-generation sequencing to streamline SNP discovery: An example from the study of global population structure of fin whales (*Balaenoptera physalus*). *SNP Workshop III*. Blaine, Washington. **Best Student Presentation Award.**

M. S. LESLIE, D. S. WEBER, ET AL. 21 Dec 2007. Oral Presentation: MHC diversity in Southern Elephant Seals from Marion Island. *17th Biennial Conference on the Biology of Marine Mammals*. Capetown, South Africa.

M. S. LESLIE, H. C. ROSENBAUM AND W. PERRIN. 20 Dec 2005. Poster presentation: Investigation of a Possible Cetacean of Hybrid Origin: *Stenella clymene*. *16th Biennial Conference on the Biology of Marine Mammals*. San Diego, CA.

MATTHEW S. LESLIE

SELECTED FIELD RESEARCH INITIATIVES AND EXPEDITIONS (* = Chief Scientist)

Mekong River, Cambodia – NOAA/WWF Irrawaddy Dolphin Research - 2013

Northwestern Hawaiian Islands – USA - NOAA HICEAS Cruise – 2010

Tongue of the Ocean – Bahamas – Beaked Whale Research - 2009

Antongil Bay – Madagascar – Wildlife Conservation Society – 2003, 2004*, 2006*

Houston Ship Channel - USA – Texas A&M University - 2001

Byron Bay - Australia – NSW Humpback Whale Research - 1999

REFERENCES

Phillip Morin Ph.D. (Ph.D. Advisor)

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Howard Rosenbaum Ph.D.

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Cheryl Peach Ph.D.

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