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EDUCATION

Scripps Institution of Oceanography, University of California, San Diego

Ph. D. in Biological Oceanography

La Jolla, CA
September 2017

M. S. in Biological Oceanography

March 2014

Columbia College, Columbia University in the City of New York

B. A. in Environmental Biology

New York, NY
May 2010

RESEARCH EXPERIENCE

Centre for Research into Ecological and Environmental Modelling

School of Mathematics and Statistics, University of St Andrews

Research Fellow

Supervisor: Len Thomas

St Andrews, UK
June 2018 - Present

School of Aquatic and Fishery Sciences, University of Washington

Affiliated with the NOAA AFSC Marine Mammal Laboratory

Postdoctoral Research Associate

Supervisors: André Punt and Charlotte Boyd

Seattle, WA
September 2017 - November 2018

Scripps Institution of Oceanography, University of California, San Diego

Affiliated with the NOAA SWFSC Marine Mammal and Turtle Division

Graduate Student Researcher

Supervisors: Jay Barlow and Peter Franks

La Jolla, CA
June 2012 - September 2017

NOAA SWFSC Marine Mammal and Turtle Division

Research Technician

Supervisors: Jay Barlow and Karin Forney

La Jolla, CA
June 2010 - June 2012

PEER-REVIEWED PUBLICATIONS

Jacobson, E. K., E. Elizabeth Henderson, David L. Miller, Cornelia S. Oedekoven, David J. Moretti, and Len Thomas. 2022. Quantifying the response of Blainville's beaked whales to U.S. Naval sonar exercises in Hawaii. *Marine Mammal Science*, 1-17. DOI: 10.1111/mms.12944

Jacobson, E. K., C. Boyd, T. L. McGuire, K. E. W. Sheldon, G. K. Himes Boor, and A. E. Punt. 2020. Assessing cetacean populations using integrated population models: an example with Cook Inlet beluga whales. *Ecological Applications* 30(5):e02114. DOI: 10.1002/eap.2114

Jacobson, E. K., K. A. Forney, and J. Barlow. 2017. Using visual survey data to estimate passive acoustic detection parameters for harbor porpoise abundance estimates. *Journal of the Acoustical Society of America* 141:219-230. DOI: 10.1121/1.4973415

Jacobson, E. K., K. A. Forney, and J. T. Harvey. 2015. Acoustic evidence that harbor porpoises (*Phocoena phocoena*) avoid bottlenose dolphins (*Tursiops truncatus*). *Marine Mammal Science* 31:386-397. DOI: 10.1111/mms.12154

TECHNICAL REPORTS

Jacobson, E. K., K. P. B. Merkens, K. A. Forney, and J. Barlow. 2017. Comparison of harbor porpoise (*Phocoena phocoena*) echolocation clicks recorded simultaneously on two passive acoustic monitoring instruments. U.S. Department of Commerce. NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-583. DOI: 10.7289/V5/TM-SWFSC-583.

Jacobson, E. K., T. M. Yack, and J. Barlow. 2013. Evaluation of an automated acoustic beaked whale detection algorithm using multiple validation and assessment methods. U.S. Department of Commerce. NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-509. DOI: 10.13140/RG.2.1.1234.3923.

SELECTED CONFERENCE PRESENTATIONS

Jacobson, E. K., C. D. Duck, C. Morris, L. Thomas, and D. J. F. Russell. 2022. Eats, moults, & leaves: estimating grey seal pup production from serial counts at breeding colonies. Oral Presentation, International Statistical Ecology Conference, 27 June - 1 July 2022, Cape Town, ZA.

Jacobson, E. K., E. E. Henderson, C. S. Oedekoven, S. L. Watwood, D. J. Moretti, and L. Thomas. 2019. Quantifying the response of Blainville's beaked whales to Naval sonar exercises in Hawaii. Oral Presentation, World Marine Mammal Conference. 9-12 Dec 2019, Barcelona, ES.

Jacobson, E. K., C. Boyd, G. K. Himes Boor, T. L. McGuire, K. E. W. Shelden, A. E. Punt, and P. R. Wade. 2018. Assessing cetacean populations using integrated population models: an example with Cook Inlet beluga whales. Oral Presentation, International Statistical Ecology Conference. 2-6 Jul 2018, St Andrews, UK.

Jacobson, E. K., K. A. Forney, and J. Barlow. 2017. PAMPower: Investigating the statistical power of passive acoustic monitoring networks to detect trends in cetacean abundance. Oral Presentation, Society of Marine Mammalogy Biennial Conference. 23-27 Oct 2017, Halifax, CA.

Jacobson, E. K., K. A. Forney, and J. Barlow. 2017. Statistical power of passive acoustic networks to detect trends in cetacean abundance. Invited Presentation, European Cetacean Society Workshop on Static Acoustic Monitoring. 30 Apr-3 May 2017, Middelfart, DK.

Jacobson, E. K., K. A. Forney, and J. Barlow. 2017. A simulation framework to investigate the statistical power of passive acoustic networks to detect trends in cetacean abundance. Oral Presentation, NOAA Protected Species Assessment Workshop. 17-19 Jan 2017, Seattle, US.

TEACHING EXPERIENCE

Computing in Statistics

University of St Andrews

Co-Instructor (with Len Thomas)

Fall 2018

Introduction to R

Scripps Institution of Oceanography

Co-Instructor (with Jessica Carrière-Garwood)

Spring 2015

ACADEMIC SERVICE AND COMMUNITY INVOLVEMENT

School of Mathematics and Statistics Equality, Diversity, and Inclusion Committee
Committee Member

University of St Andrews Research Staff Forum

Representative for the School of Mathematics and Statistics

Marine Mammal Science, Journal of Agricultural and Biological Sciences, Frontiers in Marine Science,
Journal of Applied Ecology, Biology Letters, ICES Journal of Marine Science
Reviewer