

Miriam Lerma

POSTDOCTORAL RESEARCHER

Forschung und Technologiezentrum Westküste Der Christian-Albrecht-Universität zu Kiel

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Research interest

- My research interest include ecology, conservation, physiology and ecotoxicology.

Education

Doctoral studies

CHRISTIAN-ALBRECHT-UNIVERSITÄT ZU KIEL

2015-20

Kiel, Germany

Master in Science in Marine Biology

UNIVERSIDAD NACIONAL AUTONOMA DE MÉXICO

2011-13

Mazatlan, Mexico

Bachelor in Science in Biology

UNIVERSIDAD DE GUADALAJARA

2005-09

Guadalajara, Mexico

Work experience

Postdoc researcher

PROJECT: TOPMARINE. FORSCHUNG UND TECHNOLOGIEZENTRUM WESTKÜSTE

2021

Field technician

PROJECT: COMPOSITION, ABUNDANCE AND HABITAT USE OF BIRDS ON SHRIMP FARMS ON BAHIA DE SANTA MARIA, SINALOA.

FONDO NOROESTE AC (CIVIL ASSOCIATION)

2015

Field technician

PROJECT: BIOLOGICAL MONITORING ON NATURAL PROTECTED AREAS (PROMOB 2014) (FOCUSED ON SHOREBIRDS). CONANP

(NATIONAL COMMISSION OF NATURAL PROTECTED AREAS)

2014

Advisor

SUBPROJECT: FAUNA MONITORING ON PROJECT CIP PACIFIC COAST ON ESCUINAPA, SINALOA. UNAM-FONATUR (NATIONAL

AUTONOMOUS UNIVERSITY OF MEXICO- NATIONAL TRUST FUND FOR TOURISM DEVELOPMENT)

2014

Field technician

PROJECT: CONSERVATION OF SPECIES ON RISK (PROCER 2014) (FOCUSED ON AMERICAN OYSTERCATCHER). CONANP

(NATIONAL COMMISSION OF NATURAL PROTECTED AREAS)

2014

Instructor

COURSE:INTRODUCTION TO STUDIES ON BIRDS. CONANP-IGC (NATIONAL COMMISSION OF NATURAL PROTECTED AREAS-GULF

OF CALIFORNIA ISLANDS)

2014

Field technician

PROJECT: MONITORING SEABIRDS IN SANTA MARIA BAY, SINALOA: POPULATION SIZE, NESTING HABITAT, REPRODUCTIVE

SUCCESS AND DIET. SONORAN JOINT VENTURE (BINATIONAL BIRD CONSERVATION)

2012

Field technician

PROJECT: SEABIRDS AS ENVIRONMENTAL INDICATORS IN COASTAL SYSTEMS OF ECONOMIC IMPORTANCE. CONACYT (NATIONAL

COUNCIL ON SCIENCE AND TECHNOLOGY)

2012

Field technician

MONITORING ERADICATION OF INVASIVE MAMMALS: FARALLÓN DE SAN IGNACIO AND SAN PEDRO MARTIR ISLANDS. GRUPO DE

ECOLOGÍA Y CONSERVACIÓN DE ISLAS A.

2012

Field technician

PROJECT: ECOLOGICAL AND ECOTOXICOLOGICAL MONITORING OF THE SEABIRD COMMUNITY OF SANTA MARIA BAY:

ESTABLISHING BASE LINES FOR THE USE OF BIOINDICATORS IN DECISIONS OF ENVIRONMENTAL MANAGEMENT, SINALOA. FONDO

MEXICANO DE CONSERVACIÓN DE LA NATURALEZA

2010

Technical assistant

PROJECT: MORPHOLOGIC, ISOTOPIC AND GENETIC CHARACTERIZATION OF CALIDRIS MAURI IN THE NORTHWEST OF MÉXICO.
RESOURCES FROM BASIC SCIENCE RESEARCH SEP-CONACYT AND PAPIIT

2009

Education intern

ORIENTATION TO SCHOOL GROUPS, LOCAL PEOPLE, AND VISITORS. PRONATURA RIVER OF RAPTORS, CARDEL, VERACRUZ

2009

Technical assistant

PROJECT: EVALUATION OF THE WATERBIRD COMMUNITY IN REHABILITATED MANGROVES SITES. DUCKS UNLIMITED DE MÉXICO
(BINATIONAL BIRD CONSERVATION)

2009

Collaborator

COURSE: INTRODUCTION TO THE STUDY OF BIRDS. UNIVERSITY OF GUADALAJARA

2008

Peer-reviewed publications

Breeding stage, not sex, affects foraging characteristics in masked boobies at Rapa Nui

2020

LERMA L, DEHNHARD N, LUNA-JORQUERA G, VOIGT CC, GARTHE S

Beh Ecol Soc 74: 149

Foraging ranges of Humboldt penguins (*Spheniscus humboldti*) from Tilgo Island: the critical need for protecting a unique marine habitat.

2020

QUIspe R, LERMA M, LUNA N, PORTFLITT-TORO M, SERRATOSA J, LUNA-JORQUERA G

Mar Ornithol 48: 205

Foraging ecology of a marine top predator in the Eastern Tropical Pacific over 3 years with different ENSO phases

2020

LERMA, M, CASTILLO-GUERRERO, JA, HERNANDEZ-VAZQUEZ S, GARTHE S

Mar Biol 167: 88

Zinc concentrations in Blue-footed booby (*Sula nebouxii*) eggs, nestlings, and adults

2020

LERMA M, CASTILLO-GUERRERO, J.A., GARCIA-HERNANDEZ, J, FERNANDEZ G

J Sea Research 165: 101952

Foraging ecology of masked boobies (*Sula dactylatra*) in the world's largest 'oceanic desert'

2020

LERMA, M, SERRATOSA J, LUNA-JORQUERA G, GARTHE S

Mar Biol 167: 87

Non-Breeding Distribution, Abundance, and Roosting Habitat Use of the American Oystercatcher (*Haematopus palliatus frazari*) in Sinaloa, Mexico

2017

LERMA, M, CASTILLO-GUERRERO, JA, PALACIOS, E

Waterbirds 40: 95-103

Lead, cadmium and mercury in the blood of the blue-footed booby (*Sula nebouxii*) from the coast of Sinaloa, Gulf of California, Mexico

2017

LERMA, M, CASTILLO-GUERRERO, JA, RUELAS-INZUNZA J, FERNANDEZ, G

Mar Poll Bull 110: 293-298

Environmentally-mediated flexible foraging strategies in Brown Boobies in the Gulf of California

2016

CASTILLO-GUERRERO, JA, LERMA, M, MELLINK, E, SUAZO-GUILLÉN, E, PEÑALOZA-PADILLA, E A

Ardea 104: 33-57

Conferences

2018 Pacific Seabird Group 45th Meeting

La Paz, Mexico

2017 VI Reunión Internacional de Investigadores del Archipiélago Revillagigedo

Colima, México

2017 41th Waterbirds 2017

Reykjavik, Iceland

2015 Waterbirds 2015: Challenges and Responses

Bar Harbor, Maine

2013 Pacific Seabird Group 40th Annual Meeting.

Portland, US

2011 Congress for the study and conservation of the birds in Mexico

Mazatlán, Mexico

Tranings

Young Entrepreneurs in Science

FALLING WALLS. KIEL, GERMANY

2021/Jun/1-3

Programación en R para estudios de biología de vertebrados marinos y sus interacciones con la actividad pesquera en el Perú

UNIVERSIDAD CIENTÍFICA DEL SUR. ONLINE, PERU

2020/Nov-2021/Feb

AniMove

MAX PLANCK INSTITUTE. RADOLFZELL, GERMANY

2018/Sept/10-21

Basics in University Teaching

INTEGRATED SCHOOL OF OCEAN SCIENCES. KIEL, GERMANY

2018/Jul/16-17

International Summer School on Stable Isotopes in Animal Ecology

CENTRE FOR STABLE ISOTOPE ECOLOGY. BERLIN-BRANDENBURG, GERMANY

2016/Sep/12-16

GIS for Marine Sciences

INTEGRATED SCHOOL OF OCEAN SCIENCES. KIEL, GERMANY

2016/Jun/20

Analysis of univariate data sets - first steps in R

INTEGRATED SCHOOL OF OCEAN SCIENCES. KIEL, GERMANY

2016/Feb/8

Relevant skills

COMPUTER

- Proficient in statistical programs: R, Statistica, SPSS, Sigmaplot, R, basic Python, css, html
- Proficient in Geographic Information Systems: QGIS

FIELDWORK

- Catching and handling wild animals
- Sample collection: extraction of blood and feathers
- Censusing populations, monitoring breeding success

LABORATORY

- Dissection of birds
- Determination of heavy metal concentrations
- Stable isotopes analyses
- Physiological (plasma metabolites) analyses

TEACHING

- University teaching: Experimental design and R programming. Centro de Investigación en Alimentación y Desarrollo A. C. Mazatlán, Mexico. January-May 2021.

LANGUAGES

- Spanish (mother tongue)
- English (TOEFL iBT 99)
- German (A2)