

Miriam Lerma

POSTDOCTORAL RESEARCHER

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

✉ lerma@ftz-west.uni-kiel.de | 🌐 www.miriam-lerma.com

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

FORSCHUNG UND TECHNOLOGIEZENTRUM WESTKÜSTE

- Project: TopMarine

2021

Field technician

FONDO NOROESTE AC (CIVIL ASSOCIATION)

- Project: Composition, abundance and habitat use of birds on shrimp farms on Bahia de Santa Maria, Sinaloa

2015

Field technician

CONANP (NATIONAL COMMISSION OF NATURAL PROTECTED AREAS)

- Project: Biological monitoring on Natural Protected Areas (PROMOBI 2014) (focused on Shorebirds)

2014

Field technician

CONANP (NATIONAL COMMISSION OF NATURAL PROTECTED AREAS)

- Project: Conservation of Species on Risk (PROCER 2014) (focused on American Oystercatcher)

2014

Advisor

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

- Subproject: Fauna monitoring on project CIP Pacific Coast on Escuinapa, Sinaloa

2014

Instructor

CONANP-IGC (NATIONAL COMMISSION OF NATURAL PROTECTED AREAS-GULF OF CALIFORNIA ISLANDS)

- Course: Introduction to studies on birds

2014

Field technician

SONORAN JOINT VENTURE (BINATIONAL BIRD CONSERVATION)

- Project: Monitoring seabirds in Santa Maria Bay, Sinaloa: Population size, nesting habitat, reproductive success and diet

2012

Field technician

CONACYT (NATIONAL COUNCIL ON SCIENCE AND TECHNOLOGY)

- Project: Seabirds as environmental indicators in coastal systems of economic importance

2012

Field technician

GRUPO DE ECOLOGÍA Y CONSERVACIÓN DE ISLAS A.

- Monitoring Eradication of Invasive Mammals: Farallón de San Ignacio and San Pedro Martir Islands

2012

Field technician

FONDO MEXICANO DE CONSERVACIÓN DE LA NATURALEZA

- 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

2010

Technical assistant

RESOURCES FROM BASIC SCIENCE RESEARCH SEP-CONACYT AND PAPIIT

- Project: Morphologic, isotopic and genetic characterization of *Calidris mauri* in the Northwest of México

2009

Education intern

PRONATURA RIVER OF RAPTORS, CARDEL, VERACRUZ

- Orientation to school groups, local people, and visitors

2009

Technical assistant

DUCKS UNLIMITED DE MÉXICO (BINATIONAL BIRD CONSERVATION)

- Project: Evaluation of the waterbird community in rehabilitated mangroves sites

2009

Collaborator

UNIVERSITY OF GUADALAJARA

- Course: Introduction to the study of birds

2008

Peer-reviewed publications

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

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

Beh Ecol Soc 74: 149

2020

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

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

Mar Ornithol 48: 205

2020

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

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

Mar Biol 167: 88

2020

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

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

J Sea Research 165: 101952

2020

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

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

Mar Biol 167: 87

2020

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

LERMA M, CASTILLO-GUERRERO JA, PALACIOS E

Waterbirds 40: 95-103

2017

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

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

Mar Poll Bull 110: 293-298

2017

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

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

Ardea 104: 33-57

2016

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 biologgging de vertebrados marinos y sus interacciones con la actividad pesquera en el Peru

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 skills

STATISTICAL ANALYSES

- R
- Statistica
- SPSS
- Sigmaplot

Computer skills

SPATIAL ANALYSES

- R
- QGIS

Fieldwork skills

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

Laboratory skills

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

Teaching skills

- University teaching: Experimental design and R programming. Centro de Investigación en Alimentación y Desarrollo A. C.

LANGUAGES

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