

# Miriam Lerma

POSTDOCTORAL RESEARCHER

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

✉ [lerma@ftz-west.uni-kiel.de](mailto:lerma@ftz-west.uni-kiel.de) | 🏠 [www.miriam-lerma.com](http://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.C.

- 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

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### Computer

R – Statistica – SPSS –  
Sigmaplot – QGIS – Git –  
Markdown

### Laboratory

Heavy metal analyses –  
Stable isotopes – Plasma  
metabolites analyses

### Fieldwork

Catching and handling  
wild animals – Sample  
collection: extraction  
blood & feathers –  
Censing populations –  
Monitoring breeding  
success

### Languages

Spanish (Mother tongue)  
– English (TOEFL iBT 99)  
– German (Basic-A2)