

# MARIANA ESCOBAR-RODRIGUEZ

Erasmus Mundus Master Programme in Evolutionary Biology (MEME)

MSc in Evolutionary Biology

[mescobar.rd@gmail.com](mailto:mescobar.rd@gmail.com)

[mariana.escobar@evobio.eu](mailto:mariana.escobar@evobio.eu)

## Education

2021 - Present

**Erasmus Mundus Master Programme in Evolutionary Biology (MEME)**

University of Groningen

University of Montpellier

2017 - 2021

**BSc in Genomic Sciences**

Graduated with Honours

Center for Genomic Sciences

National Autonomous University of Mexico

## Research Experience

February 2023 -

**MSc Research Intern at the Microbial Paleogenomics Unit, Pasteur Institute**

Supervisor: Dr. Nicolás Rascovan

Microbial Paleogenomics Unit, Pasteur Institute

- *Prevalence and diversity of Antibiotic Resistance Genes over the last millennia*

September 2022 - February 2023

**MSc Research Intern at the Viral Ecology and Evolution Lab, University of Groningen**

Supervisor: Dr. Sebastian Lequime

Microbial Ecology Group, University of Groningen

- *Evolution of endogenous viral elements in Formicidae*

April 2022 - July 2022

**MSc Research Intern at the Phylogenetics and Molecular Evolution Lab, ISEM**

Supervisor: Dr. Frédéric Delsuc

Institute of Evolutionary Science of Montpellier, University of Montpellier

- *Molecular evolution and expression of the salivary mucin genes MUC5B and MUC7 in mammals*

September 2020 - September 2021

**Undergraduate Senior Thesis at the Veeramah Lab, Stony Brook University**

Supervisor: Dr. Krishna R. Veeramah

Department of Ecology and Evolution, Stony Brook University

- *Evaluation of genotype imputation of ancient DNA: a simulation study*

September 2019 - October 2020

**Research Intern at the Paleogenomic Consortium, INMEGEN**

Supervisor: Dr. Federico Sánchez-Quinto

Department of Computational Genomics, National Institute of Genomic Medicine (INMEGEN)

- *Genomic analysis of ancient Mediterranean remains*

December 2019 - February 2020

**Research Intern at the Laboratory of Adaptive Genomics, University of Potsdam**

Supervisor: Dr. Michael Hofreiter

Department of Mathematics and Natural Sciences, University of Potsdam

- *Genomic analysis of historical samples of *Canis lupus baileyi* (Mexican wolf)*

September 2018 - October 2020

**Research Intern at the Laboratory of Systems and Synthetic Biology, UNAM**

Supervisor: Dr. Diego Cortez-Quezada

Center for Genomic Sciences, UNAM

- *Temperature-dependent sex determination in *Lepidochelys olivacea* (sea turtle)*

## **Publications**

Taron, U; Salado, I; **Escobar-Rodríguez, M**; Westbury, M; Butschkau, S; Paijmans, J; von Holdt, B; Hofreiter, M & Leonard, J. *A sliver of the past: the decimation of the genetic diversity of the Mexican wolf*. (2021) Molecular Ecology DOI:10.1111/mec.16037

## **Grants**

**AMR axis - 2023 - Pasteur Institute** Investigating the prevalence and diversity of Antibiotic Resistance Genes in human commensal microbes over the last millennia. €6,000

## **Teaching Experience**

2019

**Teaching assistant of Phyloinformatics course**

Undergraduate Program on Genomic Sciences

Center for Genomic Sciences, UNAM

## **Honors and Awards**

2021 - Present

**Erasmus Mundus Joint Master Degree (EMJMD) scholarship**

Awarded by the Erasmus+ Programme of the European Union

2021

**Bachelor of Science with Honours**

Awarded by the National Autonomous University of Mexico

2019 - 2020

**Research Methods Training Scholarship**

Awarded by the National Autonomous University of Mexico

## **Skills**

- Familiar with Python, R and Bash.
- Server and cluster management for bioinformatic purposes
- Fluent Spanish and English

## **Interests**

My current interests are human and animal diversity, population genetics, ancient DNA, and the application of genomic and computational tools to examine patterns of genetic variation from different time points in history.