

MARIA FERNANDA MARIN RECINOS

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35392 Gießen

+49 163 7317793

Email: mafer.recinos@icloud.com

Website: researchgate.net/Fernanda_Marin2

ACADEMIC HISTORY

2018 - Present. Master in Science in Agrobiotechnology. Justus Liebig Universität, Gießen, Germany

2013- 2018. Bachelor in Science in Biology. University of El Salvador, San Salvador, El Salvador.

(Cum laude)

EXPERIENCE ON ACADEMIC RESEARCH

- Justus Liebig University of Giessen, Institute of Agronomy and Plant Breeding II, Biometry and Populations Genetics Department.

Teaching Assistant in Biostatistics, October 2019 - Present

Duties:

- Prepare classes and conduct tutorials using the Software R
- Prepare exams
- Grade exams

- Medical Entomology Laboratory, Center for Research and Development in Health (CENSALUD), University of El Salvador, San Salvador.

Manager of Laboratory (Principal Investigator) May 1/2018– September 15/2018

Duties:

- Plan and direct research studies
- Planning, organizing and directing laboratory operations
- Ensure availability of necessary laboratory resources

- Animal Testing Laboratory, Center for Research and Development in Health (CENSALUD), University of El Salvador, San Salvador.

Researcher, February 2017 – Present (Associate Researcher)

Currently studying the antidiarrheal activity in vivo of Ethanolic Extracts from Cacao seeds.

Other activities include: Statistical data, and qualitative information analysis.

- Centro Nacional de Tecnología Agropecuaria y Forestal “Enrique Álvarez Córdova” (CENTA), Fruit and Cacao Department, and Soil Analysis Laboratory, La Libertad, El Salvador. The program seeks to

innovate and validate technology that improves the profitability of Cocoa crops (*Theobroma cacao*) in a competitive and sustainable way.

Research Assistant, January 2018 – April 2018

Duties:

- Management, adaptation and evaluation of the Cacao crop (*Theobroma cacao*).
 - Methods of propagation of Cacao crops (*Theobroma cacao*).
 - Determination of Organic Matter in soil samples
 - Writing laboratory protocols
 - Doing inventory of the laboratory equipment
- Medical Entomology Laboratory, Center for Research and Development in Health (CENSALUD), University of El Salvador, San Salvador.

Work on Medical Entomology studying the biology and ecology of the Chagas disease vector through the application of molecular techniques (conventional PCR, Agarose Gel Electrophoresis) and Geographic Information Systems.

Research Assistant, May 2016 – December 2017

Other Duties:

- Statistical data analysis
 - Research collaboration
 - Paper writing
 - User manuals for Image Analysis Software design.
- Scanning Electron Microscope Laboratory, Center for Research and Development in Health (CENSALUD), University of El Salvador, San Salvador.

Research Assistant, March 2015 – May 2016

Duties:

- Samples Preparation.
- Writing preparation protocols for Cacao Samples.
- Scanning Electron Microscope operation.
- Writing user manuals for Laboratory equipment.

CONTRIBUTIONS AND PUBLICATIONS

2020 [Paper] Víctor Carmona, María Fernanda Marín, Saúl Gámez, Karla Castillo, Guillermo Paredes, Andrea Romero, Enrique Posada y Jenny Amaya. Morphological variability and ecological characterization of the Chagas Disease vector *Triatoma dimidiata* (Hemiptera: Reduviidae) in El Salvador. Acta Tropica 205:105392. Doi: [10.1016/j.actatropica.2020.105392](https://doi.org/10.1016/j.actatropica.2020.105392)

2018 [Poster] María Fernanda Marín-Recinos, Víctor Carmona-Galindo, Mekleit Dix, Mateen Zarekari, and Guillermo Recinos Paredes. A preliminary evaluation of the morphological variation of the Chagas disease vector *Triatoma dimidiata* (Hemiptera; Reduviidae) in El Salvador. III Science and Technology Conference. Viceministerio de Ciencia y Tecnología. NCONACyT. San Salvador, El Salvador.

2018 [Talk] Guillermo Recinos, Víctor Carmona-Galindo, Saúl Gámez, Karla Castillo, María Marín, Andrea Romero, Enrique Posada y Jenny Amaya. Exploration of Morphological Patterns in *Triatoma dimidiata* (Hemiptera: Reduviidae) through Ecological Variables in El Salvador. Tercera Reunión Colombiana sobre Leishmaniasis y Enfermedad de Chagas y el XVI Simposio PECET: Avances en la investigación de enfermedades tropicales. Universidad de Antioquía. Medellín, Colombia.

2017 [Paper] Ana Karla Castillo Ayala, Víctor D. Carmona-Galindo, Andrea Romero, Jenny Amaya, Enrique Posada, Saúl Gámez, Guillermo Recinos, María Fernanda Marín. Evaluación de las fuentes alimenticias del vector de la Enfermedad de Chagas *Triatoma dimidiata* (Hemiptera: Reduviidae) en ambientes domiciliarios de la región oriental de El Salvador. *Minerva Journal*. Universidad de El Salvador. San Salvador, El Salvador.

2017 [Poster] Ana Karla Castillo Ayala, Víctor D. Carmona-Galindo, Andrea Romero, Jenny Amaya, Enrique Posada, Saúl Gámez, Guillermo Recinos, María Fernanda Marín. Evaluación de fuentes alimenticias de *Triatoma dimidiata* (Hemiptera: Reduviidae) en la región oriental de El Salvador. XXI Congress of the Mesoamerican Society of Biology and Conservation (SMBC) and VI International Meeting of Partners in Flight (PIF). Costa Rica.

2017 [Poster] Víctor Carmona, Saúl Gámez, Karla Castillo, Guillermo Paredes, María Fernanda Marín, Andrea Romero, Enrique Posada y Jenny Amaya. Exploration of Morphological Patterns in *Triatoma dimidiata* (Hemiptera: Reduviidae) through Ecological Variables in El Salvador. VII Conference of Engineering and Architecture. Universidad Centroamericana José Simeón Cañas. San Salvador, El Salvador.

2017 [Poster] María Fernanda Marín, Andrea L. Romero, Gabriela López, Jenny Amaya, María Ibáñez, Sara Ángel. Airborne pathogenic fungi in indoor conditions of three public hospitals in San Salvador, El Salvador. VII Conference of Engineering and Architecture. Universidad Centroamericana José Simeón Cañas. San Salvador, El Salvador.

2016 [Poster] Ana Karla Castillo Ayala, Víctor D. Carmona-Galindo, Andrea Romero, Jenny Amaya, Enrique Posada, Saúl Gámez, Guillermo Recinos, María Fernanda Marín. Evaluación de las fuentes alimenticias del vector de la Enfermedad de Chagas *Triatoma dimidiata* (Hemiptera: Reduviidae) en ambientes domiciliarios de la región oriental de El Salvador. VI Conference of Engineering and Architecture. Universidad Centroamericana José Simeón Cañas. San Salvador, El Salvador.

2015 [Oral] Vegetal Inventory of the Protected Natural Area of the Municipality of Nuevo Cuscatlán. Regional Botanical Conference. San Salvador, El Salvador.

HONORS & AWARDS

2018 Academic Honors Diploma, Graduation Ceremony. Universidad de El Salvador.

2017 Ambassador of El Salvador at the First Latin American Summit of Young Leaders in Biotechnology in Santiago, Chile.

EXTRACURRICULAR ACTIVITIES

Scout Organization, San Salvador, El Salvador.

Scout Leader, May 2017 – November 2017. Volunteer as Scout Leader of 10- 14 years old children.

WORKSHOPS, COURSES AND ACQUIRED SKILLS

2020 [Laboratory Course] Plant Tissue Culturing and Genetic Transformation. Department of Phytopathology. Justus Liebig University Giessen.

2018 [Workshop] Risk Analysis: Role of Science in GMO Decision-Making. Organized by the International Centre for Genetic Engineering and Biotechnology (ICGEB) and the Ministry of Environment and Natural Resources (MARN)

2017 [Course] Bioinformatics for Nucleic Acids. Organized by the University of Guadalajara and the Biology faculty of the University of El Salvador

2017 [Course] Public Speaking. University of El Salvador

2016 [Course] Molecular Techniques in Crop Improvement.
Organized by the INIA- Venezuela and the Biology faculty of the University of El Salvador

2016 [Course] Introduction to Multivariable Statistics. Organized by the Biology faculty of the University of El Salvador

LANGUAGES

English (C1)

German (B1)

Spanish (Native)