

# SERGIO L. AVILA CALERO

\* Dr. rer. nat. in Biology at the WWU Münster in Germany and funded by a scholarship by the German Academic Exchange Service (DAAD)

\* Experience in laboratory methods such as optical microscopy, microbiology and molecular biology.

\* Experience in methods for collecting arthropods in the field as well as in the management of biological collections of insects and arachnids.

\* Interested in biodiversity research of arthropods using traditional and molecular taxonomy.


\* Good knowledge of statistical analysis using the R software



## EDUCATION

2020  
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2015

### Dr. rer. nat. in Biology

Institute for Evolution and Biodiversity – University of Münster  
 Münster, Germany

- Thesis: Immunogenic mating: the link between mating and immunity in *Drosophila melanogaster*.
- Supervisors: Dr. Claudia Fricke & Dr. Sophie A.O. Armitage

2014  
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2007

### Diplom in Biology (Licenciatura)


Institute for Ecology – University Mayor de San Andrés  
 La Paz, Bolivia

- Thesis: Methylene blue as a preventive of schizophrenia-like symptoms in mice.
- Supervisor: Prof. Dr. Álvaro Garitano-Zavala

## COURSES AND SEMINARS

2017


### Writing Readable Scientific Papers

CiM-IMPRS Graduate Program  
 Münster, Germany

- Two days of hands-on training on scientific writing.

2016


### Model systems in biomedical research

Max Planck Institute for Molecular Biomedicine  
 Münster, Germany

- Four weeks of training in yeast, fly, planarian, zebrafish, mouse and human pluripotent stem cells as research models.

2016

### Applied biostatistics using R: the practice of experimental design and inference


Institute for Evolution and Biodiversity  
 Münster, Germany

- Training in biostatistics using the programming language R.

## SELECTED TEACHING EXPERIENCE

2017

### Workshop – Statistics using R

University of Münster  
 Münster, Germany

- Introduction to programming in R.
- Statistics using Generalized Linear Models.

## CONTACT

 Bolivian

 08.07.88

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## LANGUAGE SKILLS

Spanish: Native

English: Advanced

German: Intermediate

Portuguese: Intermediate

2011  
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2010

### Teaching Assistant for Invertebrate Zoology (Zoology I)

University Mayor de San Andrés

La Paz, Bolivia

- Organisation of laboratory practica and mentoring for third-semester students in anatomy, physiology and biodiversity of invertebrates.
- Organisation of field practica for third-semester students in sampling methods of aquatic and terrestrial invertebrates.



## SELECTED POSITIONS

2015  
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2014

### Internship

Institute for Molecular Biology and Biotechnology – University Mayor de San Andrés

La Paz, Bolivia

- General management of *D. melanogaster*.
- Application of *D. melanogaster* in studies of toxicity and genotoxicity.
- Support in the project “Genotoxicity of tomatoes exposed to pesticides”.

2013  
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2011

### Research Assistant

Institute for Pharmacy and Biochemistry Research – University Mayor de San Andrés

La Paz, Bolivia

- Study of the fruit fly *Anastrepha fraterculus* as a pest of mango orchards.
- Evaluation of pest control strategies against *A. fraterculus*.
- Mass rearing of *A. fraterculus* under controlled conditions.

2011  
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2009

### Student Research Assistant

Bolivian Fauna Collection (CBF) – University Mayor de San Andrés

La Paz, Bolivia

- Establishment of a baseline collection of pollinator species (Diptera and Hymenoptera) at the experimental station El Ceibo in Sara Ana (Alto Beni, Bolivia).
- Collection of insects (mainly Hymenoptera, Diptera, Lepidoptera) and arachnids at Yabaré experimental station (Santa Cruz, Bolivia) as part of the international Barcode of Life (iBOL) project.

2009  
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2008

### Student Research Assistant *ad honorem*

Bolivian Fauna Collection (CBF) – University Mayor de San Andrés

La Paz, Bolivia

- Basic taxonomy of spiders and insects (Coleoptera, Hymenoptera and Diptera) from old collection samples of the CBF.
- Preservation of insects in “dry” (mainly Hymenoptera, Coleoptera, Orthoptera) and in “wet” (mainly Arachnida, Diptera) collections.



## SELECTED PUBLICATIONS

2020

### Genotypes and their interaction effects on reproduction and mating-induced immune activation in *Drosophila melanogaster*<sup>1</sup>

Claudia Fricke<sup>†</sup>, Sergio Ávila-Calero<sup>†</sup> & Sophie A.O. Armitage

- Shared first-authorship<sup>†</sup>.
- Published in *Journal of Evolutionary Biology* 33:930-941.

2013

### The first palpimanid spiders from Bolivia: two new species of the genus *Otiotrops* MacLeay, and the female of *Fernandezina pulchra* Birabén |Araneae: Palpimanidae: Otiotropsinae|<sup>2</sup>

Luis N. Piacentini, Sergio L. Ávila-Calero, Marianela E. Pérez, Cristian J. Grismado

- Published in *Zootaxa* 3619:491-500.

Last updated on 2020-12-11.