

SERGIO L. AVILA CALERO

* Dr. rer. nat. in Biology by the University of Münster, Germany, funded by a scholarship by the German Academic Exchange Service (DAAD).

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

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

* Interested in biodiversity research with an emphasis on arthropods using integrative (i.e. 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

RESEARCH EXPERIENCE

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".



View this CV online with links at
<https://dravila-sl.github.io/>

CONTACT

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- ✉ sergio.avila.calero@gmail.com

LANGUAGE SKILLS

Spanish	
English	
German	
Portuguese	

2013
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2013

● Internship

University of São Paulo

📍 Ribeirão Preto, Brazil

- Quantification of cellular density on a hemiparkinsonian mouse model.
- Predictive behavioral tests to identify antipsychotic effect on experimental models of catalepsy and pre-pulse inhibition.

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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2011

● Internship

Ministry for Environment and Water from Bolivia

📍 La Paz, Bolivia

- Design of a management plan for the sustainable use of beetles as economical income in Pacallo (North Yungas, Bolivia).

2011
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2010

● Student Research Assistant

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

📍 La Paz, 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.
- Survey of insect and spider specimens with different collection methods at the experimental station El Ceibo in Sara Ana (Alto Beni, Bolivia).

2010
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2009

● Student Research Assistant

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

📍 La Paz, Bolivia

- Establishment of a baseline database of flowering plants and pollinator species (Diptera and Hymenoptera) at the experimental station El Ceibo in Sara Ana (Alto Beni, Bolivia).
- Curation and maintenance of the arthropod collection.
- Organisation and execution of research projects on ecology and biodiversity of arthropods.

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 from the CBF.
 - Preservation of insects in “dry” (mainly Hymenoptera, Lepidoptera, Coleoptera) and in “wet” (mainly Arachnida, Diptera) collections.



COURSES AND SEMINARS

2017
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2017

- **PhD Summer Course: Host-microbe symbioses: from functional to ecological perspectives**
Instituto Gulbenkian de Ciencia 📍 Oeiras, Portugal
 - Two-week course with seminars by expert researchers from the United States, Germany and Portugal in the field of host-microbe symbioses.

2017
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2017

- **22nd DZG Graduate meeting in Evolutionary Biology**
Max Planck Institute for Evolutionary Biology 📍 Plön, Germany
 - Three-day meeting with seminars by researchers working in Evolutionary Biology.
 - I was awarded the prize for Best Poster Presentation.

2017
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2017

- **Writing Readable Scientific Papers**
CiM-IMPRS Graduate Program 📍 Münster, Germany
 - Two days of hands-on training on scientific writing.

2017
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2017

- **Training in assisted fertilization procedures using human gametes**
Center for Reproductive Medicine and Andrology 📍 Münster, Germany
 - Two-day training on in-vitro fertilisation (IVF) and intracytoplasmic sperm injection (ICSI) techniques.


2016
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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
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2016

- **Grundlagen und Klinik der menschlichen Reproduktion - Ein interdisziplinärer Ansatz**
Center for Reproduction Medicine and Andrology 📍 Münster, Germany
 - Seminars on biology and clinics of human reproduction, including current status of assisted reproduction techniques.

2016
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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.




TEACHING EXPERIENCE

2017
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2017

- **Workshop – Statistics using R**
University of Münster  Münster, Germany
 - Introduction to programming in R.
 - Statistics using Generalized Linear Models.

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.



LIST OF PUBLICATIONS

2020

- **Genotypes and their interaction effects on reproduction and mating-induced immune activation in *Drosophila melanogaster*¹**
Claudia Fricke[†], Sergio Ávila-Calero[†] & Sophie A.O. Armitage
 - Shared first-authorship[†].
 - Published in *Journal of Evolutionary Biology* 33:930-941.

2014

- **Principales cultivos y principales problemas fitosanitarios según los agricultores de la comunidad La Plazuela, Municipio de Iru-pana, Provincia Sud Yungas, Departamento de La Paz²**
Vania Barrientos Vera, Sergio Ávila-Calero, Krystal Begregal Flores & Sergio Moreira Ascarrunz
 - Published in *Revista Científica de Investigación Info-INIAF*.

2014

- **Alternativas de control de los principales problemas fitosanitarios del cultivo de mango [*Mangifera indica* L.] en la comunidad La Plazuela, Municipio de Iru-pana, Provincia Sud Yungas, Departamento de La Paz³**
Evelyn Villanueva Gutiérrez, Sergio Ávila-Calero & Sergio Moreira Ascarrunz
 - Published in *Revista Científica de Investigación Info-INIAF*.

2013

● **The first palpimanid spiders from Bolivia: two new species of the genus *Otiotrops* MacLeay, and the female of *Fernandezina pulchra* Birabén [Araneae: Palpimanidae: Otiotropinae]**⁴

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

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



LINKS

- 1: <https://doi.org/10.1111/jeb.13625>
- 2: http://www.revistasbolivianas.org.bo/scielo.php?script=sci_abstract&pid=S2308-250X2014000100006&lng=es&nrm=iso
- 3: http://www.revistasbolivianas.org.bo/scielo.php?script=sci_arttext&pid=S2308-250X2014000100004&lng=es&nrm=iso
- 4: <https://doi.org/10.11646/zootaxa.3619.4.6>

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