

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.



View this CV online with links at [_https://dravila-sl.github.io/_](https://dravila-sl.github.io/)

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".

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.

CONTACT

🇧🇴 Bolivian

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LANGUAGE SKILLS

Spanish

English

German

Portuguese

- 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

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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

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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

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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

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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

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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

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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

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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

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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***
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 Irupana, 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 Irupana, 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 *Otiothops* MacLeay, and the female of *Fernandezina pulchra* Birabén [Araneae: Palpimanidae: Otiothopinae]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>

CV made with RStudio and
[pagedown](#).

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