

SERGIO L. AVILA CALERO

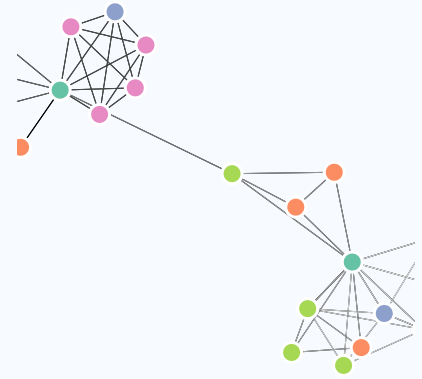
* Dr. rer. nat. in Biology by the University of Münster, Germany, funded by a scholarship by the German Academic Exchange Service (DAAD).

* 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”.

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.

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

CONTACT

🇧🇴 Bolivian

📞 08.07.88

🏠 Dürenstrasse, 53173 Bonn

📞 (+49) 15 901 953565



sergio.avila.calero@gmail.com

LANGUAGE SKILLS

Spanish

English

German

Portuguese

Made with the R package [page-down](#).

The source code is available on github.com/nstrayer/cv.

Last updated on 2020-12-09.

- 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.




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.

NA

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 PUBLICATIONS

2020
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2020

- **Genotypes and their interaction effects on reproduction and mating-induced immune activation in *Drosophila melanogaster*²**
Claudia Fricke¹, Sergio Ávila-Calero¹ & Sophie A.O. Armitage
 - Shared first-authorship¹.
 - Published in *Journal of Evolutionary Biology* 33:930-941.

2014
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2014

- **Principales cultivos y principales problemas fitosanitarios según los agricultores de la comunidad La Plazuela, Municipio de Irupana, Provincia Sud Yungas, Departamento de La Paz³**
Vania Barrientos Vera, Sergio Ávila-Calero, Krystal Begregal Flores & Sergio Moreira Ascarrunz
 - Published in *Revista Científica de Investigación Info-INIAF*.

2014
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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 Paz⁴**
Evelyn Villanueva Gutiérrez, Sergio Ávila-Calero & Sergio Moreira Ascarrunz
 - Published in *Revista Científica de Investigación Info-INIAF*.

2013
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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]⁵**
Luis N. Piacentini, Sergio L. Ávila-Calero, Marianela E. Pérez, Cristian J. Grismado
 - Published in *Zootaxa* 3619:491-500.



LINKS

1: NA

2: <https://doi.org/10.1111/jeb.13625>

3: http://www.revistasbolivianas.org.bo/scielo.php?script=sci_abstract&pid=S2308-250X2014000100006&lng=es&nrm=iso

4: http://www.revistasbolivianas.org.bo/scielo.php?script=sci_arttext&pid=S2308-250X2014000100004&lng=es&nrm=iso

5: <https://doi.org/10.11646/zootaxa.3619.4.6>