

# SERGIO L. AVILA CALERO

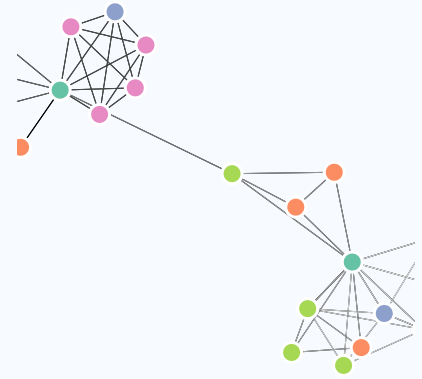
\* Dr. rer. nat. in Biology by the University of Münster, Germany, funded by a scholarship by the German Academic Exchange Service (DAAD).

\* 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

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## LANGUAGE SKILLS

Spanish

English

German

Portuguese

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

The source code is available on  
[github.com/nstrayer/cv](https://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*<sup>2</sup>**  
Claudia Fricke<sup>1</sup>, Sergio Ávila-Calero<sup>1</sup> & Sophie A.O. Armitage
  - Shared first-authorship<sup>1</sup>.
  - 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 Paz<sup>3</sup>**  
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 Paz<sup>4</sup>**  
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]<sup>5</sup>**  
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](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](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>