

# MARÍLIA MELO FAVALESSO

 <https://orcid.org/0000-0003-4441-0960>

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## EDUCATION

2018  
|  
Present

- **Doctoral Student in Ecology, Genetics and Evolution**  
Universidad de Buenos Aires - Buenos Aires capital, Argentina  
**Provisional thesis title:** Ecoepidemiological studies of *Lonomia achelous* and *Lonomia obliqua* (Saturniidae: Hemileucinae) in South America.  
**Advisor:** PhD. Maria elisa Peichoto and PhD. Ana Tereza Bittencourt Guimarães

2016  
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2018

- **Master in Environmental Sciences**  
Universidade Estadual do Oeste do Paraná, Cascavel, PR, Brazil  
**Thesis:** Ecological conditions and prediction of available areas for *Lonomia obliqua* walker 1855 in Brazil ([UNIOESTE Libraries](#))  
**Advisor:** PhD. Ana Tereza Bittencourt Guimarães




2010  
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2014

- **Bachelor in Biological Sciences**  
Universidade Federal do Paraná (UFPR), Palotina, PR, Brazil  
**Thesis:** Bees and wasps (Hymenoptera) as ecological indicators in a forest restoration area.  
**Advisor:** PhD. Rodrigo Barbosa Gonçalves




2005  
|  
2009

- **Environmental Technician**  
Centro Estadual de Educação Profissional Pedro Boaretto Neto, Cascavel, PR, Brazil






## COMPLEMENTARY EDUCATION

- 2021 ● **Training of teacher-facilitators: Descriptive Statistical Analysis with R**  
Escola Nacional de Administração Pública, ENAP  Brazil  
• 35 h
- 2021 ● **Generalized linear mixed model**  
Universidad de Buenos Aires, UBA (remote)  Argentina  
• 40 h
- 2020 ● **Quantitative remote sensing applied to environmental problems**  
Universidad Nacional de General San Martín, UNSAM (remote)  Argentina  
• 64 h

## CONTACT

 [www.mmfava.com](http://www.mmfava.com)  
 [mariliabioufpr@gmail.com](mailto:mariliabioufpr@gmail.com)  
 [github/mmfava](https://github.com/mmfava)

## THEMES

 Biostatistics  
 Programming in R /  
Python  
 Ecoepidemiology  
 Conservation  
 Entomology

## SKILLS

 R  
 Python (basic)  
 Excel  
 Xlstat  
 markdown  
 Git  
 QGIS  
 Inkscape

## LANGUAGES

Portuguese (Native speaker)  
English (Intermediary)  
Spanish (Advanced)

CV by [pagedown](#) R package.  
Code available on  [GitHub](#).  
Last updated on 2021-10-03.

2019	<ul style="list-style-type: none"> <li>● <b>Introduction to Bayesian Statistical Methods in Ecology</b> Universidad de Buenos Aires (UBA) • 60 h</li> </ul>	📍 Argentina
2019	<ul style="list-style-type: none"> <li>● <b>Epidemiology</b> Universidade Estadual do Oeste do Paraná (UNIOESTE) • 60 h</li> </ul>	📍 Brazil
2019	<ul style="list-style-type: none"> <li>● <b>Time series modeling</b> Universidad de Buenos Aires (UBA) • 60 h</li> </ul>	📍 Argentina
2018	<ul style="list-style-type: none"> <li>● <b>Advanced models in health and environment</b> Universidad de Buenos Aires (UBA) • 60 h</li> </ul>	📍 Argentina
2018	<ul style="list-style-type: none"> <li>● <b>School of Advanced Training in Panoramic Epidemiology</b> Instituto Gulich • 84 h</li> </ul>	📍 Argentina
2018	<ul style="list-style-type: none"> <li>● <b>Biotoxinology</b> Universidade da Integração Latino-Americana (UNILA) • 45 h</li> </ul>	📍 Brazil
2017	<ul style="list-style-type: none"> <li>● <b>Ecological niche modeling: theory and practice</b> Universidade Estadual Paulista (UNESP) • 60 h</li> </ul>	📍 Brazil
2016	<ul style="list-style-type: none"> <li>● <b>Environmental quality and natural resource management</b> Universidade Estadual do Oeste do Paraná (UNIOESTE) • 60 h</li> </ul>	📍 Brazil
2016	<ul style="list-style-type: none"> <li>● <b>Multivariate analysis</b> Universidade Estadual do Oeste do Paraná (UNIOESTE) • 60 h</li> </ul>	📍 Brazil
2016	<ul style="list-style-type: none"> <li>● <b>Special topics in methodology and scientific writing</b> Universidade Estadual do Oeste do Paraná (UNIOESTE) • 60 h</li> </ul>	📍 Brazil

- 2016

● **Basic level statistics**

Universidade Estadual do Oeste do Paraná (UNIOESTE)

• 60 h

📍 Brazil
- 2015

● **Numerical ecology**

Universidade Estadual do Oeste do Paraná (UNIOESTE)

• 60 h

📍 Brazil
- 2015

● **Theoretical ecology**

Universidade Estadual do Oeste do Paraná (UNIOESTE)

• 60 h

📍 Brazil
- 2014

● **Short course in *XII Summer Course in Entomology***

Universidade de São Paulo (USP)

• 90 h

📍 Brazil
- 2012

● **Short Course in *Forensic Entomology***

RENOVA cursos

• 8 h

📍 Brazil
- 2012

● **Short Course in *DNA Forensic Analysis***

RENOVA cursos

• 8 h

📍 Brazil



## PROFESSIONAL EXPERIENCE

- 2015  
|  
2016

● **Biostatistics consultancy and advice**

Qual é a sua pergunta?

📍 Brazil

  - Univariate statistical analysis
  - Multivariate statistical analysis
  - Non-parametric statistical analysis
  - Ecological analyzes
  - R courses
  - Latex course integrated with R
  - Mendeley course



## TEACHING EXPERIENCE

- 2021

● **Git and GitHub without programming**

Course taught in synchronous mode - 2ª Hacktoberfest GDG e GECD  
Foz do Iguaçu, Paraná - BR

📍 Brazil

• 1h

- 2021 • **Introduction to analysis of biological data with R (Spanish)**  
Course taught in synchronous/asynchronous mode - INMeT, Puerto Iguacu, Misiones - AR  
📍 Argentina  
• 48h
- 2021 • **Eco-epidemiological tools for surveillance of accidents with venomous animals (Spanish/Portuguese)**  
Taught class - UNILA  
📍 Brazil  
• 5 h
- 2020 • **Introduction to Git and GitHub in RStudio (Portuguese)**  
Short course instructor - R-Ladies Fortaleza  
📍 Brazil  
• 4 h
- 2020 • **Species distribution models: an introduction (Portuguese)**  
Short course instructor - R-Ladies BH  
📍 Brazil  
• 1 h
- 2019 • **Descriptive statistics (Portuguese)**  
Short course instructor Grupo de Estudos em Ciência de Dados (GECD)  
📍 Brazil  
• 4 h
- 2019 • **Introduction to R Language (Portuguese)**  
Short course instructor Grupo de Estudos em Ciência de Dados (GECD)  
📍 Brazil  
• 4 h
- 2017 • **Ecological Niche Modeling (ENM) and Species Distribution (SDM) in R (Portuguese)**  
Short course instructor XXVI Semana Acadêmica de Ciências Biológicas UNIOESTE  
📍 Brazil  
• 4 h
- 2016 • **Numerical ecology in R (Portuguese)**  
Short course instructor XXV Semana Acadêmica de Ciências Biológicas UNIOESTE  
📍 Brazil  
• 4 h

2016 ● Introduction to R Language (Portuguese)  
Short course instructor  
Universidade Federal do Paraná (UFPR)

📍 Brazil

• 24 h



## PUBLICATIONS

- 2021 ● 8. A hidden deadly venomous insect: first eco-epidemiological assessment and risk mapping of Ionomism in Argentina  
*Plos One NDTs* PLoS Negl Trop Dis 15(7): e0009542  
DOI: [10.1371/journal.pntd.0009542](https://doi.org/10.1371/journal.pntd.0009542)  
Casafús MG, Favalesso MM, Gritti MA, Coronel JM, Guimarães ATB & Peichoto ME
- 2021 ● 7. *Lonomia* envenomation in Brazil: an epidemiological overview for the period 2007-2018.  
*Transactions of The Royal Society of Tropical Medicine and Hygiene* 115: 9-19  
DOI: [10.1093/trstmh/traa051](https://doi.org/10.1093/trstmh/traa051)  
Favalesso MM, Cuervo PF, Casafús M, Guimarães ATB and Peichoto ME
- 2020 ● 6. Report of predatory events in *Lonomia* sp. (Saturniidae: Hemileucinae).  
*Oecologia australis* 24(1): 235-241  
DOI: [oeco.2020.2401.23](https://doi.org/10.1007/s00420-020-0401-2)  
Favalesso MM, Chiyo L, Casafús M, Guimarães ATB and Peichoto ME
- 2019 ● 5. Potential distribution and ecological conditions of *Lonomia obliqua* Walker 1855 (Saturniidae: Hemileucinae) in Brazil  
*Acta tropica* 192: 158-164  
DOI: [10.1016/j.actatropica.2019.01.016](https://doi.org/10.1016/j.actatropica.2019.01.016)  
Favalesso MM, Lorini LM, Peichoto ME and Guimarães ATB
- 2019 ● 4. Recorriendo Misiones para el registro ecoepidemiológico de la oruga venenosa *Lonomia* spp. (Saturniidae: Hemileucinae)  
*Boletín de la Sociedad Entomológica Argentina* 30: 4-7  
Full text: [BSEA](#)  
Casafús M, Favalesso MM, Guimarães ATB and Peichoto ME

Citations  
[Google Scholar](#)

- 2019 ● 3. Construction of meanings in practical lessons of biology laboratory: an evaluation by quasi-experimental design  
*Revista brasileira de ensino de ciência e tecnologia* 12(3): 78-93  
DOI: [10.3895/rbect.v12n3.7608](https://doi.org/10.3895/rbect.v12n3.7608)  
Favalesso MM, Oliveira JB, Klüber TE and Guimarães ATB
- 2019 ● 2. Effects of trichlorfon used in the treatment of parasitosis on biological metrics of farmed *Ctenopharingodon idella* (Valenciennes, 1844)  
*Archives of Veterinary Science* 24(2): 61-72  
DOI: [10.5380/avs.v24i2.57734](https://doi.org/10.5380/avs.v24i2.57734)  
Guimarães ATB, Sobjak TM, Favalesso MM and Boeger WAP
- 2017 ● 1. Bees and wasps (Hymenoptera) as ecological indicators in a forest restoration area  
*Oecologia australis* 21(4): 396-406  
DOI: [10.4257/oeco.2017.2104.04](https://doi.org/10.4257/oeco.2017.2104.04)  
Favalesso MM and Gonçalves RB



## SCIENTIFIC ARTICLES IN PRESS

- 2021 ● 2. Land use as an effect factor on the occurrence of chromosomal diseases in Brazil  
*International Journal of Molecular Epidemiology and Genetics*  
Cochak MR, Favalesso MM, Brancalhão RMC, Guimarães ATB & Ribeiro LFC  
Artigos científicos em desenvolvimento {data-icon=file}
- 2021 ● 1. Antimicrobial resistance profile in carbapenemase-producing microorganisms isolated from a hospital in Corrientes (Argentina)  
*Medicina (Buenos Aires)*  
Gritti AG, Favalesso MM, Peichoto ME & Aguirre LGGC



## SCIENTIFIC ARTICLES IN DEVELOPMENT

- 2021 ● Revealing the landscape and climate as key factors that influence lonomic accidents in southern Brazil  
Data analysis process  
Favalesso MM, Cuervo P, Guimarães ATB and Peichoto ME

2021 ● Bee sting notifications in São Paulo (Brazil) between 2007 and 2018

Submitted for consideration in *Journal of the Brazilian Society of Tropical Medicine*

Favalesso MM, Oliveira PS, Burgos EF, Frazeto IB and Souza R

## ORAL COMMUNICATIONS

2019 ● The importance of data in the biologist's profession (Portuguese)  
VI International Congress of Veterinary Medicine and Biological Sciences

📍 Brazil

2019 ● Clinical and epidemiological characterization of accidents with *Lonomia* in Misiones (Argentina) (Spanish)

II Simpósio Latino-Americano de Biociências

📍 Brazil

2019 ● Be careful where you touch: an overview of lonomism in Brazil (Portuguese)

Seminário em Biociência - UNILA

📍 Brazil

2018 ● Potential distribution and ecological aspects of the venomous caterpillar *Lonomia obliqua* walker 1855 in Brazil (Portuguese)

I Simpósio Latino-Americano de Biociências

📍 Brazil

2017 ● Ecological niche modeling by maximum entropy (Portuguese)

Seminários em Conservação e Manejo de Recursos Naturais

📍 Brazil

2014 ● Structure of the interaction network between bees and angiosperms native to a semideciduous seasonal forest (São Camilo State Park, Palotina, Paraná) (Portuguese)

22º EVINCI/7º EINTI

📍 Brazil

2013 ● Basic evolution concepts (Portuguese)

Grupo de Estudos em Bioética (GEB) - UFPR

📍 Brazil

2012 ● Preliminary study of cadaveric fauna in the municipality of Palotina, Paraná - entomological succession (Portuguese)

20º EVINCI/5º EINTI

📍 Brazil

2012 ● The relevance of cadaveric decomposition (Portuguese)

Grupo de Estudos em Pesquisas Forense (GEP Forense) - UFPR

📍 Brazil





## PUBLICATIONS FROM EVENTS

- 2019 ● Potential distribution of the main hosts of schistosomiasis (*Biomphalaria* spp., Mollusca, Gasteropoda: Planorbidae) in Paraguay (Spanish)  
Primer Congreso Paraguayo de Zoología 📍 Paraguay  
Casaccia PS, Burgos EF, Favalesso MM, Rios SD, Mereles MF, Arias AR
- 2019 ● Clinical and epidemiological characterization of accidents with *Lonomia* in Misiones (Argentina) (Spanish)  
II Simpósio Latino-Americano de Biociências 📍 Brazil  
Favalesso MM, Couto EM, Casafús M, Gritti MA, Guimarães ATB and Peichoto ME
- 2019 ● Priorities to prevent the establishment and spread of the yellow lily in susceptible regions (Spanish)  
VI Congreso Nacional de Conservación de la Biodiversidad 📍 Argentina  
Gervazoni P, Favalesso MM, Franceschini C, Fuentes Rodriguez D, Sosa A, Coetzee J and Hill M
- 2019 ● Lononism in Brazil: epidemiological analysis of accidents caused by poisonous caterpillars in the period 2007 and 2018 (Portuguese)  
IX Simpósio de Zoonoses com Interesse em Saúde Pública 📍 Brazil  
Favalesso MM, Casafús M, Guimarães ATB and Peichoto ME
- 2019 ● Accidents with honey bees in the state of São Paulo (Portuguese)  
IX Simpósio de Zoonoses com Interesse em Saúde Pública 📍 Brazil  
Favalesso MM, Oliveira PS and Burgos E
- 2019 ● Clinical-epidemiological approach to loxoscelism in the region of Foz do Iguaçu-PR (Portuguese)  
IX Simpósio de Zoonoses com Interesse em Saúde Pública 📍 Brazil  
Lescano ME, Ripoli MC, Oliveira WF, Favalesso MM, Peichoto ME and Tavares FL
- 2019 ● Potential distribution and ecological aspects of the venomous caterpillar *Lonomia obliqua* Walker 1855 in Brazil (Portuguese)  
I Simpósio Latino-Americano de Biociências 📍 Brazil  
Favalesso MM, Casafús MG, Lorini LM, Guimarães ATB and Peichoto ME






- 2019 ● Contribution to knowledge about the distribution of accidents and host plants of the venomous caterpillar *Lonomia* spp. (Saturniidae: Hemileucinae) in the province of Misiones – Argentina (Spanish)  
I Simpósio Latino-Americano de Biociências  Brazil  
Casafus M, Favalesso MM, Couto E, Gatti F, Guimarães ATB and Peichoto ME
- 2019 ● Revealing land-use change as a key factor influencing the incidence of envenomation by *Lonomia* sp. in southern Brazil (English)  
3th International Symposium of Ecology (SINECO)  Brazil  
Favalesso MM, Burgos E, Peichoto ME and Guimaraes ATB
- 2017 ● Predict areas of occurrence of *Lonomia obliqua* Walker 1855 (Saturniidae, Hemileucinae) in the province of Misiones, Argentina (English)  
Reunión conjunta de sociedades de Biociências  Argentina  
Favalesso MM, Casafus MG, Guimaraes ATB and Peichoto ME
- 2017 ● Prediction of climatically suitable areas for *Automeris naranja* Schaus, 1898 (Lepidoptera, Saturniidae, Hemileucinae) in southern Brazil (Portuguese)  
XXVI Semana Acadêmica de Ciências Biológicas da UNIOESTE  Brazil  
Bastos EFM, Favalesso MM, and Guimaraes ATB
- 2017 ● What is your question? (Portuguese)  
XVII Seminário de Extensão da UNIOESTE  Brazil  
Guimarães ATB, Paoletti M, Cargnelutti-Júnior JC, Favalesso MM, Dal'Canton LE and Sobjak T
- 2016 ● Comparison of abiotic water parameters between three points in the Cascavel river basin (Portuguese)  
XXV Semana Acadêmica de Biologia  Brazil  
Medeiros G, Favalesso MM, Nabeshima CA, Favaretto CC and Bueno NC
- 2016 ● Silk sericin exerts a protective effect on sperm morphology of C57BL/6 mice fed a High Fat diet (Portuguese)  
XV Congresso Brasileiro de Biomedicina & III Congresso Internacional de Biomedicina  Brazil  
Scarton SRS, Favalesso MM, Kunz RI, Bracalhão RC, Guimarães ATB and BEU CCL

- 2016 ● Bibliographic analysis on the use of fish as bioindicators of the biotic integrity of Brazilian aquatic ecosystems: Sampling environments (Portuguese)  
V Seminário sobre Estudos Limnológicos em Clima Subtropical (V SELCS)  
📍 Brazil  
Berlatto AF, Bogoni RF, Ticiani D, Eichelberger AC, Malagi I, Medeiros G, Favalesso MM, Delariva RL
- 2014 ● Bees that collect pollen by vibration in Solanaceae flowers in São Camilo State Park, Palotina, Paraná (Portuguese)  
XXV Congresso de Entomologia  
📍 Brazil  
Favalesso MM, Gonçalves RB
- 2014 ● Structure of the interaction network between bees and angiosperms native to Semideciduous Seasonal Forest (São Camilo State Park, Palotina, Paraná) (Portuguese)  
22º EVINCI e 6ª SIEPE  
📍 Brazil
- 2013 ● Study of cadaveric fauna in the municipality of Palotina, Paraná - Description of the characteristics of cadaveric decomposition (Portuguese)  
XVI ENAPAVE - Archives of Veterinary Science, v. 18, p. 349-351  
📍 Brazil  
Tostes RA, Caron E, Cestari FK, Favalesso MM and Silva NL
- 2013 ● Study of Cadaveric Fauna in the Municipality of Palotina, Paraná - Description of Characteristics of Cadaveric Decomposition (Portuguese)  
MedVep de Especialidades Veterinárias  
📍 Brazil  
Cestari FK, Silva NL, Tostes RA, Favalesso MM and Caron E
- 2013 ● Study of Cadaveric Fauna in the Municipality of Palotina, Paraná – Biogeoclimatic Changes and Its Relation with Cadaveric Decomposition (Portuguese)  
MedVep de Especialidades Veterinárias  
📍 Brazil  
Tostes RA, Cestari FK, Silva NL, Favalesso MM and Caron E
- 2013 ● The influence of a group of studies on bioethics at the Federal University of Paraná, Setor Palotina (Portuguese)  
Revista da Sociedade Brasileira de Bioética, V. 9, p. 298  
📍 Brazil  
Dias NA, Cestari FK and Favalesso MM
- 2012 ● Divergence in carcass decomposition of *Sus scrofa* L. in Forensic Entomology experiments (Spanish)  
Anais del II Congreso Uruguayo de Zoología, v. 2, p. 147  
📍 Uruguay  
Chiarini R, Cestari FK and Favalesso MM

- 2012 ● Preliminary study of cadaveric fauna in the municipality of Palotina, Paraná - Entomological succession (Portuguese)  
20° Evinci e 5° Eintí  Brazil  
Favalesso MM, Cestari FK, Lima N and Tostes R
- 2012 ● Assessment of theoretical content retention in students undergoing practical activities (Portuguese)  
XXI Semana Acadêmica de Biologia da UNIOESTE  Brazil  
Oliveira JB, Vendrame C, Favalesso MM, Peireira-Júnior M, Lucyk N, Artmann N, Aranha JM and Guimarães ATB

## + OTHERS

- 2021  
|  
current ● Founder of *Soma dos quadrados*  
Texts and videos on biostatistics  Argentina/Brazil
- 2020  
|  
current ● Founder of the *Niche and distribution models group*  
Study Group on ENM/SDM  South America
- 2019  
|  
current ● Co-founder of the *Data Science Study Group*  
Study Group on Data Science  South America