



# Yuri Silva de Souza

## CONTACT

Mobile: +1 (768) 834 7161

e-mail: [yuri.souza@miami.edu](mailto:yuri.souza@miami.edu)

Researchgate: [Yuri-Souza-6](#)

Twitter: [@Yuri\\_S\\_Souza](#)

GitHub: [souzayuri](#)

## EDUCATION

<b>São Paulo State University</b> (UNESP), Rio Claro, SP, Brazil	2013-2016
Bachelor of Ecology from the Institute of Bioscience	
<b>São Paulo State University</b> (UNESP), Rio Claro, SP, Brazil	2018-2021
Master's in Ecology and Biodiversity program, Department of Biodiversity	
<b>University of São Paulo</b> (USP-ESALQ), Piracicaba, SP, Brazil	2021-2023
MBA in Data Science e Analytics - Distance Education	
<b>University of Miami</b> , Miami, FL, United States	2022-2026
Ph.D. in Biology, Biology Department	

---

## COMPLEMENTARY EDUCATION

<b>Easy R</b> , Brazil	2020-2021
Technical skills on multivariate analysis in R	
<b>University of Helsinki</b> , Helsinki, Finland	2020
Hierarchical Modelling of Species Communities with the R-package Hmsc	
<b>University of São Paulo State</b> , São Paulo, SP, Brazil	2020
Introduction of R: data management, visualization and analysis	
<b>Federal University of Rio Grande do Sul (UFRGS)</b> , Porto Alegre, RS, Brazil	2019
Introduction to hierarchical models in Ecology	
<b>Geoprocessing with no boundaries</b> , Rio de Janeiro, RJ, Brazil	2017
Geographic information system in the analysis of environmental risks using ArcGIS software	
<b>Environmental sanitation technology company</b> , São Paulo, SP, Brazil	2016
Greenhouse gas inventory: Corporate and public sustainability	

---

## RESEARCH

### ❖ **University of Miami (UM)**, Miami, FL, United States

*Department of Biology - Profa. Amy Zanne*  
(Zanne Laboratory)

2022-2026

- **Investigating the interchange between above and below-ground process**

### ❖ **São Paulo State University (UNESP)**, Rio Claro, SP, Brazil

*Department of Biodiversity – Prof. Mauro Galetti*  
(Biology Conservation Laboratory)

2018 - 2021

- **Investigating the assemblages of medium and large-sized mammals of the Atlantic Forest of South America**
- **Investigating the defaunation effects of medium and large-sized mammals to plant life-forms dynamics in the Atlantic Forest** (Received a total of R\$48.852,54 and US\$11.096,00 for this research from Fundação de Amparo a Pesquisa do Estado de São Paulo - FAPESP)

*Department of Biodiversity - Prof. David Montenegro Lapola*  
(Laboratory of Earth System Sciences)

2013-2016

- **Investigating the effects of elevated CO2 to water balance in the Amazon Forest** (Received a total of R\$7.960,00 for this research from Fundação de Amparo a Pesquisa do Estado de São Paulo - FAPESP)

---

## SKILLS

**Development:** Integrating deprived communities in a university preparation course; improving scientific divulgation skills to the outside community; liaising with financial support agencies.

**Ecology:** Strong background in population, community, and ecosystems Ecology theories; fieldwork competence in manage surveys and identify South American vertebrates such as medium and large mammals and birds to answer ecological questions; skillful to determine forest structure by life-forms composition and using tools to calculate canopy gap and cover; familiarized with ecological data parametric and nonparametric statistical analysis; advanced GIS processing and mapping.

**Language:** Portuguese (Native) and English (Advanced)

**Technical:** Microsoft Office 2019, QGIS, ArcGIS, R, Shiny, basic Python, database management



## ABSTRACTS

- **Souza, Yuri;** Villar, Nacho; Ziparro, Valesca; Nazareth, Sérgio; Galetti, Mauro. Large mammalian herbivores modulate plant growth form diversity in a tropical rainforest. *Journal of Ecology*, 2022. <https://doi.org/10.1111/1365-2745.13846>
- Lautenschlager, Lais; **Souza, Yuri;** Galetti, Mauro. Frugivory and seed dispersal by the Red-footed Tortoise *Chelonoidis carbonaria*. *Acta Oecologica*, 2022. <https://doi.org/10.1016/j.actao.2022.103837>
- Galetti, Mauro; Gonçalves, Fernando; Villar, Nacho; Ziparro, Valesca; Paz, Claudia; Mendes, Calebe; Lautenschlager, Lais; **Souza, Yuri;** Akkawi, Paula; Pedrosa, Felipe;; Bulascoschi, Leticia; Bello, Carolina; Sevá, Anaiá P.; Sales, Lilian; Genes, Luísa; Abra, Fernanda; Bovendorp, Ricardo S. 2019. Cause and consequences of large-scale defaunation in the Atlantic forest. In: Marcia C. M. Marques & Carlos Eduardo de V. Grelle (Org.). Atlantic Forest: biodiversity, threats and solutions of the megadiverse forest. New York: Springer. [https://doi.org/10.1007/978-3-030-55322-7\\_14](https://doi.org/10.1007/978-3-030-55322-7_14)
- **Souza, Yuri, et al.** ATLANTIC MAMMALS: a data set of assemblages of medium and large-sized mammals of the Atlantic Forest of South America. *Ecology*, 2019. <https://doi.org/10.1002/ecy.2785>
- Vancine, Maurício H.; Duarte, Kauã da Silva; De Souza, **Yuri S.**; Giovanelli, João G, R.; Martins- sobrinho, Paulo M.; López, Ariel; Bovo, Rafael P.; Maffei, Fábio; Lion, Marília B.; Ribeiro Júnior, José W.; Brassaloti, R.; Da Costa, Carolina O, R.; Sawakuchi, Henrique O.; Forti, Lucas R.; Cacciali, Pier; Bertoluci, Jaime; Haddad, Célio F, B.; Ribeiro, Milton C. ATLANTIC AMPHIBIANS: a data set of amphibian communities from the Atlantic Forests of South America. *Ecology*, 2018. <https://doi.org/10.1002/ecy.2392>
- Conciani, Dhemerson; **De Souza, Yuri S.**; Ruffino, Paulo H, P.; Zanchetta, Denise. Análise Temporal da Invasão Biológica de Pinus sp. em Área Úmida do Domínio Cerrado. *Revista Brasileira de Geografia Física*, 2018. <https://doi.org/10.26848/rbgf.v11.2.p521-531>
- **Souza, Yuri S.**; Lapola, David M. Uma aplicação de modelagem do ciclo hidrológico e impactos do aumento da concentração de CO<sub>2</sub> atmosférico na Amazônia. *Revista UniVap*, 2016 <http://dx.doi.org/10.18066/revistaunivap.v22i40.477>



## EXPERIENCE

### ❖ Geographic information system (SIG) and statistical analyses

*São Paulo State University (UNESP), Botucatu, SP, Brazil*

**Prof. Silvia Nishida**

2017

- QGIS tutorial to manage shapefiles, arrange point by a matrix mesh and import it to a GPS;
- Producing thematic maps to the "Guia de aves Botucatu e São Manuel"
- Zoning, mapping and map production;

*Itirapina Ecological Station, Itirapina, SP, Brazil*

**Instituto Florestal**

2016

- Monitoring daily the removal of the invasive species Pinus sp. in a Brazilian Savanna protected area, and elaborating a GIS tutorial to allow the forest managers to using drones' images during the monitoring;

*São Paulo State University (UNESP), Rio Claro, SP, Brazil*

**Prof. David Montenegro Lapola**

2013-2016

- Updating and validation of climate data inputs to the dynamic vegetation model "Carbon and Ecosystem Functional-Trait Evaluation Model";

**Prof. Milton Ribeiro**

2013

- Management assistance of amphibian's database in the Atlantic Forest;

**Prof. Thiago Sanna Freire Silva**

2016

- Selecting and filtering Atlantic Forest patches by attributes to implement in the NDVI – Normalization Differentiate Vegetation Index analyses;

**Prof. Antonio Camargo**

2016-2017

- Statistical analyses and mapping support to a project of aquatic macrophytes distribution in the Atlantic Forest coast;
- Identification of river pollution spots to the water treatment station company in Rio Claro city using Principal Component Analyses (PCA);

**Prof. Marco Aurélio Pizo**

2017

- SIG and fieldwork assistant to mapping and calculate the potential areas to birds' survey in the Atlantic Forest fragments;

**Prof. Mauro Galetti**

2017-2020

- Laboratory assistance of R software language, theoretical and practical statistical analyses as regressions, PCAs, RDAs, ANOVAs, accumulation species and rarefaction curves, GLMs, GLMMs, survival analyses and temporal series analyses;
- Assist laboratory students during fieldwork design and execution, as mammals' surveys, and landscape ecology using GIS analyses and mapping;
- Mapping and calculating matrix proportion of agricultural landscapes and forest cover remains in the semi-deciduous Atlantic Forest;

**Prof. Marina Corrêa Côrtes**

2021-2022

- Technician in the project "The contribution of plant-animal interactions to biodiversity and ecosystem restoration in the Atlantic Forest" working as data management and analyst, processing and synthesizing plant and animal seed dispersal attribute data compiled from the literature and collected in the field. (Receiving a fellowship for this work from Fundação de Amparo a Pesquisa do Estado de São Paulo - FAPESP).

**❖ Fieldwork assistant***University of Copenhagen, Copenhagen,***Thomas Arkwright (Ph.D. student)**

2017

- Assistance during surveys and camera-trap installation to access the Maned-wolf (*Chrysocyon brachyurus*) population in a Brazilian Savanna protected area;

*Department of Bioscience, Aarhus University, Denmark,***Vincent Fehr (Ph.D. student)**

2018

- Assistance with exotic palms and its potential to invasion in the Atlantic Forest, also installing temperature/humidity data loggers and using mapping equipment as the LiDAR scanner, and camera lenses to calculate canopy cover;

*São Paulo State University (UNESP), Rio Claro, SP, Brazil*

**Prof. Mauro Galetti**

2018-2020

- Fieldwork assistance in camera-trap installation in 20 Atlantic Forest patches located in particular areas over the São Paulo state surrounding by pasture matrices;
- Assistance of the BIOTA-FAPESP biodiversity and conservation project, helping to collect soil, seeds, measure plant seedlings, installing cameras-trap and also testing the palms seeds predation rates;
- Fieldwork assistance in the collection of ungulates feces and soil samples in the Brazilian protected area Carlos Botelho State Park;

*University of Miami, Miami, FL, United States*

**Prof. Mauro Galetti**

2021-2022

- Fieldwork assistance in the collection of ungulates feces and feces composition (nutrients, leaves, and seeds) and soil samples in the Brazilian Atlantic Forest protected area "Carlos Botelho State Park".

## ❖ Teaching assistant

*Federal University of São Carlos (UFSCar), São Carlos, SP, Brazil,*

**Aided Prof. Sonia Buck**

2017

- Taught a course of Savanna fieldwork collect methods;

*São Paulo State University (UNESP), Rio Claro, SP, Brazil*

**Aided Prof. David Montenegro Lapola**

2014

- Aided in a basic course of Fortran and ArcGIS to graduate classes;

**Aided Prof. Mauro Galetti**

2018

- Taught an R-based statistics course for undergraduate students and prepared an ecology fieldwork in which students collected and analyzed data;

## ❖ Ecology events organization

- I, II and III Workshop about implementation of Ecosystem Services in rural properties, Rio Claro, SP, Brazil

2013-2015

- Commission President of XXV Week Ecology Studies, Rio Claro, SP, Brazil 2014
- XX Brazilian Congress of Mastozoology, Águas de Lindóia, SP, Brazil 2019
- Association for Tropical Biology and Conservation – “Integrating defaunation with other key drivers of structure and diversity of tropical forests” 2021

#### ❖ **Communities’ engagement**

- Integrating deprived communities in a University preparation course (ATHO, Ação Transformadora do Homem) to students (young adults and adults) be able to study in the São Paulo State University (Rio Claro, SP, Brazil), teaching Chemistry classes, also collaborating as class monitor, organizing educational events and member of the responsible committee 2011-2015
  - Member team (Laboratory of Earth System Sciences) that intermediated the deal between the government and rural properties of their services as protecting and maintaining ecosystem services quality in Rio Claro region 2013-2015
  - Scientific divulgator to citizens and Brazilian governors as part of São Paulo State University and Organization of United Nations incentive to conscientize the importance of science and research to a healthy life and country development, promoting the UN Sustainable Development Goals 2019
-