

# YURI SOUZA

## Doctoral Student in Biology

I am a tropical Ecologist with a broad interest in community and ecosystem dynamics. My experiences range from fieldwork to statistics and data analyses. My current interest relies on understanding the dynamics above and below-ground processes and their consequences on ecosystem maintenance.



## EDUCATION

- 2022  
|  
Present
- **University of Miami (UM)**  
Doctoral Student in Biology  
Advisor: Dr. Amy Zanne  
📍 Miami, FL, United States
- 2021  
|  
2023
- **University of Sao Paulo (USP)**  
MBA in Data Science and Analytics  
Thesis: ShinyApp application as a tool for ecological data management, analyses, visualization, and digital decision making approach (Application Result)  
Advisor: Dr. Walter Mesquita Filho  
📍 Piracicaba, SP, Brazil
- 2018  
|  
2021
- **São Paulo State University (UNESP)**  
Master in Ecology and Biodiversity  
Thesis: Large mammalian herbivores modulate plant growth form diversity in a tropical rainforest (UNESP Libraries)  
Advisor: Dr. Mauro Galetti  
📍 Rio Claro, SP, Brazil
- 2013  
|  
2016
- **São Paulo State University (UNESP)**  
Bachelor in Ecology  
Thesis: Uma análise de modelagem do ciclo hidrológico e impactos do aumento da concentração de CO2 atmosférico na Amazônia (UNESP Libraries)  
Advisor: Dr. David Montenegro Lapola  
📍 Rio Claro, SP, Brazil



## COMPLEMENTARY EDUCATION

- 2020
- **Multivariate Analysis using R**  
e-MultivaR (Online)  
• 22 h • course  
📍 Florianópolis, SC, Brazil
- 2020
- **Hierarchical Modelling of Species Communities with the R-package Hmsc**  
University of Helsinki (Online)  
• 25 h • course  
📍 Helsinki, Finland
- 2019
- **Introduction to Hierarchical Modeling**  
Federal University of Rio Grande do Sul (UFRGS)  
• 45 h • course  
📍 Porto Alegre, RS, Brazil
- 2019
- **Introduction of R: data management, visualization and analysis**  
LaBic - UNESP  
• 40 h • course  
📍 Rio Claro, SP, Brazil

## CONTACT

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Building, 1301 Memorial  
Dr, Coral Gables, FL  
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R<sup>6</sup> Researchgate

📄 Google Citations

📄 0000-0002-2133-0469

## THEMES

- 🐾 Conservation biology
- 🌐 Community Ecology
- 🌱 Population Ecology
- ⚙️ Landscape Ecology
- 📊 Geoprocessing
- 🔍 Fieldwork
- 📊 DataScience

## SKILLS

- 🔗 R (Advanced)
- 📊 tidyverse (Advanced)
- 📦 ShinyR (Intermediate)
- 🗺️ ArcGis (Intermediate)
- 🐍 python (Basic)
- 🔗 git (Basic)
- 📊 SQL (Basic)
- 🎨 Adobe Illustrator  
(Advanced)

## LANGUAGES

Portuguese (Native speaker)  
English (Fluent)

- 2017 ● **Geographic information system in the analysis of environmental risks using ArcGIS software**  
Geoprocessing with no boundaries (online) 📍 Rio de Janeiro, RJ, Brazil  
• 16 h • [course](#)



## SCHOLARSHIP & AWARDS

- 2022 | 2024 ● **Doctoral Graduate Fellowship**  
[Dean's fellowship](#) (US\$ 72.000,00) 📍 Miami, FL, United States  
University of Miami (UM)
- 2020 | 2021 ● **Master Graduate International Fellowship**  
Sao Paulo Research Foundation (FAPESP) (US\$ 9.636,00) 📍 Rio Claro, SP, Brazil  
São Paulo State University (UNESP)  
Grant [#2019/20905-4](#)  
**Title:** The effects of defaunation on carbon stock in plant functional groups in the Atlantic forest  
**Aim:** 1- Access the carbon content in plant growth form saplings in different growth stages; 2- Investigate how Defaunation might affect plant carbon content
- 2018 | 2021 ● **Master Graduate Scholarship**  
Sao Paulo Research Foundation (FAPESP) (BRL 48,852.54) 📍 Rio Claro, SP, Brazil  
São Paulo State University (UNESP)  
Grant [#19/05538-5](#)  
**Title:** Large mammalian herbivores modulate plant growth form diversity in a tropical rainforest  
**Aim:** 1- Investigate how the extinction of large mammalian herbivores might affect plant growth form community by changes plant composition, interactions and diversity; 2- Address the consequences of these changes to the tropical forest
- 2016 ● **Scientific Initiation Scholarship**  
Sao Paulo Research Foundation (FAPESP) (BRL 7,960.00) 📍 Rio Claro, SP, Brazil  
São Paulo State University (UNESP)  
Grant [#15/03759-3](#)  
**Title:** An analysis modeling of the hydrological cycle and impacts of increased atmospheric CO2 concentration in the Amazon  
**Aim:** 1- Validation and calibration of a water balance model using updated input data; 2- application of this model in the Amazon forest, in line with the [AmazonFACE](#) project, seeking to improve understanding of the effects of increased CO2 in the water dynamics of this biome



## RESEARCH EXPERIENCE

- 2021 | 2022 ● **Technical Training**  
Sao Paulo Research Foundation (FAPESP) (BRL 13,021.60) 📍 Rio Claro, SP, Brazil  
São Paulo State University (UNESP)  
Grant [#21/08509-6](#)  
**Title:** Curatorship, processing and synthesis of seed dispersal traits of plants and animals from literature and field data  
**Aim:** 1- Creating an online platform for plant traits data input; 2- Create a platform for [data manipulation, analysis and visualization](#)  
• 2000 h



## PROFESSIONAL EXPERIENCE

2021   2022	<b>Environmental consultant</b> <u>University of Miami</u> • Fieldwork collection & assistant	• Plots construction 📍 Miami, FL, United States
2018	<b>Environmental consultant</b> <u>LaBic</u> • Landscape cover • Mapping	• Land use 📍 Rio Claro, SP, Brazil
2017   2018	<b>Environmental consultant</b> <u>LaBic</u> • Fieldwork assistant	• Camera Trap installation 📍 Rio Claro, SP, Brazil
2017   2018	<b>Environmental consultant</b> <u>São Paulo State University</u> • GIS tutorial	• Map production 📍 Botucatu, SP, Brazil
2017	<b>Environmental consultant</b> <u>Itirapina Ecological Station</u> • GIS analyst	• Invasive specie controlling 📍 Itirapina, SP, Brazil



## TEACHING EXPERIENCE

	<b>Graduation</b>	
2014	<b>01. Fortran modelling and ArcGIS visualization</b> Teacher Assistant <i>Graduate in Ecology and Biodiversity</i> Environmental Changing classes São Paulo State University (UNESP) • 8 h	📍 Rio Claro, SP, Brazil
	<b>Undergraduation</b>	
2023-2024	<b>03. Ecology Lab</b> Teacher Assistant <i>Undergraduate students in Biology</i> Written course focused in ecology fieldwork and data analyses - University of Miami (UM) • 336 h	📍 United States, FL, Miami
2018	<b>02. R-based statistics applied to ecology fieldwork</b> Teacher Assistant <i>Undergraduate students in Ecology</i> Fieldwork Ecology classes - São Paulo State University (UNESP) • 16 h	📍 Rio Claro, SP, Brazil
2018	<b>01. Savanna fieldwork sample design experiment</b> Teacher Assistant <i>Undergraduate students in Environmental Science</i> Biogeography for Environmental Management and Analysis classes - Federal University of São Carlos (UFSCar) • 48 h	📍 São Carlos, SP, Brazil



## BOOKS

● **01. The Atlantic Forest History, Biodiversity, Threats and Opportunities of the Mega-diverse Forest**

**Chapter: Causes and Consequences of Large-Scale Defaunation in the Atlantic Forest**

📍 New York: Springer

Galetti, Mauro; Gonçalves, Fernando; Villar, Nacho; Zipparro, 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. 2021, 297–324p, ISBN: 978-3-030-55322-7



## PUBLICATIONS

- 2022 ● **06. Frugivory and seed dispersal by the Red-footed Tortoise *Chelonoidis carbonaria***  
*Acta Oecologica*, 116: 103837  
DOI: [10.1016/j.actao.2022.103837](https://doi.org/10.1016/j.actao.2022.103837)  
Lautenschlager, Lais; **Souza, Yuri**; Galetti, Mauro
- 2022 ● **05. Large mammalian herbivores modulate plant growth form diversity in a tropical rainforest**  
*Journal of Ecology*, 110(04), 845-859 p  
DOI: [10.1111/1365-2745.13846](https://doi.org/10.1111/1365-2745.13846)  
**Souza, Yuri**; Villar, Nacho; Zipparro, Valesca; Nazareth, Sérgio; Galetti, Mauro
- 2019 ● **04. ATLANTIC MAMMALS: a data set of assemblages of medium and large-sized mammals of the Atlantic Forest of South America**  
*Ecology* 100(10), e02785  
DOI: [10.1002/ecy.2785](https://doi.org/10.1002/ecy.2785)  
**Souza, Yuri**, et al.
- 2018 ● **03. ATLANTIC AMPHIBIANS: a data set of amphibian communities from the Atlantic Forests of South America**  
*Ecology* 99(07), 1692-1692 p  
DOI: [10.1002/ecy.2392](https://doi.org/10.1002/ecy.2392)  
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.
- 2018 ● **02. Análise Temporal da Invasão Biológica de *Pinus sp.* em Área Úmida do Domínio Cerrado**  
*Revista Brasileira de Geografia Física* 11(02), 521-531 p  
DOI: [10.26848/rbgf.v11.2.p521-531](https://doi.org/10.26848/rbgf.v11.2.p521-531)  
Conciani, Dhemerson; **De Souza, Yuri S.**; Ruffino, Paulo H, P.; Zanchetta, Denise
- 2016 ● **01. Uma aplicação de modelagem do ciclo hidrológico e impactos do aumento da concentração de CO2 atmosférico na Amazônia**  
*Revista UniVap*  
DOI: [10.18066/revistaunivap.v22i40.477](https://doi.org/10.18066/revistaunivap.v22i40.477)  
**Souza, Yuri S.**; Lapola, David M.

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CV by [pagedown](#) R package.  
Code available on  [GitHub](#).

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