

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
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Present
- **University of Miami (UM)**
Doctoral Student in Biology
Advisor: Dr. Amy Zanne
📍 Miami, FL, United States
- 2022
|
Present
- **University of Sao Paulo (USP)**
MBA in Data Science and Analytics
Thesis: ShinyApp application as a tool for ecological data management, analyses, visualization, and decision making
📍 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 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

Room 204, Cox Science
Building, 1301 Memorial
Dr, Coral Gables, FL
33146

🔗 souzayuri.github.io



desouza.s.yuri@gmail.com

🐦 [Yuri_S_Souza](https://twitter.com/Yuri_S_Souza)

🔗 github.com/souzayuri

ℹ️ [Researchgate](#)

📄 [Google Citations](#)

🆔 [0000-0002-2133-0469](#)

THEMES

- 🐾 [Conervation biology](#)
- 🌐 [Community Ecology](#)
- 🌱 [Population Ecology](#)
- ⚙️ [Landscape Ecology](#)
- 📊 [Geoprocessing](#)
- 🔍 [Fieldwork](#)
- 📚 [DataScience](#)

SKILLS

- 🔗 [R \(Advanced\)](#)
- 📦 [tidyverse \(Advanced\)](#)
- 📦 [ShinyR \(Intermediate\)](#)
- 📦 [ArcGis \(Intermediate\)](#)
- 🔗 [python \(Basic\)](#)
- 🔗 [git \(Basic\)](#)
- 📦 [MySQL \(Basic\)](#)

LANGUAGES

Portuguese (Native speaker)
English (Advanced)

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





🎓 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; Investigate how defaunation might affect the 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	Environmental consultant <u>University of Miami</u>	• Fieldwork collection & assistant • Plots construction	 Miami, FL, United States
2018	Environmental consultant <u>LaBic</u>	• Landscape cover • Mapping • Land use	 Rio Claro, SP, Brazil
2017 2018	Environmental consultant <u>LaBic</u>	• Fieldwork assistant • Camera Trap installation	 Rio Claro, SP, Brazil
2017 2018	Environmental consultant <u>São Paulo State University</u>	• GIS tutorial • Map production	 Botucatu, SP, Brazil



TEACHING EXPERIENCE

	<u>Graduation</u>		
2014	01. Fortran modelling and ArcGIS visualization Teacher Assistant <i>Graduate in Ecology and Biodiversity</i> Environmental Changing classes São Paulo State University (UNESP)	• 8 h	 Rio Claro, SP, Brazil
	<u>Undergraduation</u>		
2018	02. R-based statistics applied to ecology fieldwork Teacher Assistant <i>Undergraduate in Ecology</i> Fieldwork Ecology classes São Paulo State University (UNESP)	• 16 h	 Rio Claro, SP, Brazil
2018	01. Savanna fieldwork sample design experiment Teacher Assistant <i>Undergraduate 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; Ziparro, 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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