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   📍 Miami, FL, United States
Advisor: Dr. Amy Zanne

2022 | Present

University of Sao Paulo (USP)
MBA in Data Science and Analytics   📍 Piracicaba, SP, Brazil
Thesis: ShinyApp application as a tool for ecological data management, analyses, visualization, and digital decision making approach (Application Result)
Advisor: Dr. Walter Mesquita Filho

2018 | 2021

São Paulo State University (UNESP)
Master in Ecology and Biodiversity   📍 Rio Claro, SP, Brazil
Thesis: Large mammalian herbivores modulate plant growth form diversity in a tropical rainforest (UNESP Libraries)
Advisor: Dr. Mauro Galetti

2013 | 2016

São Paulo State University (UNESP)
Bachelor in Ecology   📍 Rio Claro, SP, Brazil
Thesis: Uma análise de modelagem do ciclo hidrológico e impactos do aumento da concentração de CO_2 atmosférico na Amazônia (UNESP Libraries)
Advisor: Dr. David Montenegro Lapola

💻 COMPLEMENTARY EDUCATION

2020

Multivariate Analysis using R
e-MultivaR (Online)   📍 Florianópolis, SC, Brazil
• 22 h   • course

2020

Hierarchical Modelling of Species Communities with the R-package Hmsc
University of Helsinki (Online)   📍 Helsinki, Finland
• 25 h   • course

2019

Introduction to Hierarchical Modeling
Federal University of Rio Grande do Sul (UFRGS)   📍 Porto Alegre, RS, Brazil
• 45 h   • course

2019

Introduction of R: data management, visualization and analysis
LaBic - UNESP   📍 Rio Claro, SP, Brazil
• 40 h   • course

CONTACT

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🔗 souzayuri.github.io

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🐦 Yuri_S_Souza

🐙 github.com/souzayuri

R⁶ Researchgate

𝓰 Google Citations

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THEMES

🐾 Conservation biology
🌐 Community Ecology
🌱 Population Ecology
🔺 Landscape Ecology
🗂 Geoprocessing
🧭 Fieldwork
📊 DataScience

SKILLS

Ⓡ R (Advanced)
tidyverse (Advanced)
ShinyR (Intermediate)
A 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)   📍 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 CO_2 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 CO_2 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
University of Miami   ⚲ Miami, FL, United States
• Fieldwork collection & assistant   • Plots construction

2018

Environmental consultant
LaBic   ⚲ Rio Claro, SP, Brazil
• Landscape cover   • Land use
• Mapping

2017 | 2018

Environmental consultant
LaBic   ⚲ Rio Claro, SP, Brazil
• Fieldwork assistant   • Camera Trap installation

2017 | 2018

Environmental consultant
São Paulo State University   ⚲ Botucatu, SP, Brazil
• GIS tutorial   • Map production

2017

Environmental consultant
Itirapina Ecological Station   ⚲ Itirapina, SP, Brazil
• GIS analist   • Invasive specie controlling

🖵 TEACHING EXPERIENCE

Graduation

2014

01. Fortran mondelling and ArcGIS visualization
Teacher Assistant *Graduate in Ecology and Biodiversity* Environmental Changing
classes São Paulo State University (UNESP)
⚲ Rio Claro, SP, Brazil

• 8 h

Undergraduation

2018

02. R-based statistics applied to ecology fieldwork
Teacher Assistant *Undergraduate in Ecology* Fieldwork Ecology classes São Paulo
State University (UNESP)
⚲ Rio Claro, SP, Brazil

• 16 h

2018

01. Savanna fieldwork sample design experiment
Teacher Assistant *Undergraduate in Environmental Science* Biogeography for
Environmental Management and Analysis classes Federal University of São Carlos
(UFSCar)
⚲ São Carlos, SP, Brazil

• 48 h

📖 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
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
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
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
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
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
Souza, Yuri S.; Lapola, David M.

📄 Download PDF

CV by pagedown R package.
Code available on ⚙ GitHub.

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