TAINÁ ROCHA

I am a researcher working on patterns of biodiversity distribution, focusing on the impacts of global change (climate change and land-use and land-cover change). My recent interests and researches comprise: 1. Analysis of climate data and land use and land cover data under different scenarios of climate change, 2. Spatial analysisof species diversity (alpha and beta diversity), 3. Ecological niche models/speciesdistribution models and other niche analyses to assess the impacts of global change onbiodiversity, 4. Biogeographical patterns and evolutionary history in the Neotropics.

Note: I use open-source tools and platforms. I am interested in good practices about open science (open databases, open software, etc.), good workflows, reproducibility and FAIR principles.

EDUCATION PhD. in Zoology 2017 MPEG. Brazil Emílio Goeldi Museum 2013 · DOCTORAL DISSERTATION: Phylogeographic of disjunct bird between Amazon and Atlantic Forest MSc. in Environmental biology 2012 **♀** IECOS, Brazil Federal University of Pará 2010 · MASTER THESIS: Phylogeographic analysis of Xiphorhynchus guttatus from Amazon and Atlantic Forest Degree in biological science 2010 **Q** UFPA, Brazil Federal University of Pará 2006 COMPLEMENTARY TRAINING COURSES Flexdashboard: Interactive panels using R 2021 Analyze. Share. Reproduce. Your data tells a story. Use rmarkdown and Flexdashboard and transform your analysis into high-quality documents, reports, presentations and dashboards. **O**nline Managing tables with dplyr R package 2021 Online The main functions of dplyr for handling tables. Regular expressions (regex) for data cleaning and transforming 2021 Regex as part of the data cleaning and transformation process using Tidyverse R packages.



♣ Download this resume in PDF.

CONTACT

- ☑ taina013@gmail.com
- **G** Github
- (D) ORCID
- Lattes
- Researchgate
- in Linkedin
- ₩ Website
- **Y** Twitter

Online

2020

Open Life Science program

OLS-2. Training for early stage researchers and young leaders interested in furthering their Open Science skills.

Online

2020

Writing academic manuscripts using rmarkdown

This training provided the different steps and tools for writing academic manuscripts or technical reports in an automated and reproducible way using R and rmarkdown.

Online

RESEARCH EXPERIENCE

2021 2019 Postdoctoral Researcher

Botanical Garden Research Institute Supervisor: Marinez F Siqueira

QJBRJ. Brazil

- · Beta diversity in Caatinga dry tropical forest https://github.com/Tai-Rocha/Caatinga_Dry_Forest.github.io
- · Beta diversity in Caatinga dry tropical forest
- https://github.com/Tai-Rocha/Caatinga_Dry_Forest.github.io
- · Climatic niche analysis for Syzygiella rubricaulis (Bryophytes) https://github.com/Tai-Rocha/S_rubricaulis_bryophytes
- The first botanical explorations of bryophyte diversity in the Brazilian Amazon mountains: high species diversity, low endemism, and low similarity
- https://github.com/Tai-Rocha/Bryophyte-Amazon-mountains
- Ecological niche models with future projections for Dimorphandra wilsonii Rizzini (Fabaceae) presented to Green List in the three-year activity plan of the Brazilian Plant Red List Authority member of the Plant Conservation Committee between 2017-2020 and the Species Survival Commission of the International Union for Conservation of Nature (IUCN)
- https://github.com/Tai-Rocha/faveiro
- · Ferns and lycophytes diversity of Tijuca forest.
- https://github.com/Tai-Rocha/Ferns-and-lycophytes

Researcher of Technological Development and Innovation

Ecoly departament

Q UFRJ. Brazil

Supervisor: Mariana M Vale

- · Global land-use and land-cover (LULC) data under historical, current, and future climatic conditions
- https://github.com/Tai-Rocha/LUH2_Data
- · Ecological niche models (ENMs) for Carpornis melanocephala (Passeriformes: Cotingidae) in Rio de Janeiro State, Brazil
- https://github.com/Tai-Rocha/Carpornis_melanocephala
- · Ecological niche modeling and niche similarity test to compares two divergent lineages of *Microtus californicus* (Rodentia, Cricetidae)
- nttps://github.com/Tai-Rocha/Vole
- · Ecological niche modeling and niche similarity test to compares two divergent lineages of *Microtus californicus* (Rodentia, Cricetidae) nttps://github.com/Tai-Rocha/Vole

SKILLS

₽ R

Git وا

GitHub

M Markdown

LATEX

∆ Linux OS

☐ Virtual Machines



2019 2017

	•-	TEACHING EXPERIENCE		
2020	•	Instructor		
2019		Biology department • PUC-R	J, Brazil	
		• Ecological Niche Models and Species Distribution Models, theory practice	and	
		· Public tools for spatial analysis of biodiversity		
2020		Guest Lecture		
2020		II National Meeting on Biological Collections and their Interfaces • Vital Brazil Institute- RJ, Brazil		
		• Ecological niche models and biological conservation in future sce of global changes	enarios	
2019 2018		Guest lecture.		
		Biological Sciences- Bachelor's Degree • UVA-R	J, Brazil	
		 Ecological niche models under a biogeography perspective Ecological Niche Models and Species Distribution Models 		
2018		Guest lecture		
2017		Biological Sciences- Bachelor's Degree ♥ UFRA-PA	A, Brazil	
		Introduction to Geographic Information System (GIS)Data for ecological niche models		
2017	•	Guest lecture		
 2017		Biological Sciences Undergraduate • UNESA-R.	J, Brazil	
 2017		Biological Sciences Undergraduate • Introduction to databases which provide input to perform ecological models		
2017		Introduction to databases which provide input to perform ecolog		
2017		 Introduction to databases which provide input to perform ecological school teacher Introduction to databases which provide input to perform ecological school teacher 		
	•	 Introduction to databases which provide input to perform ecologiniche models High school teacher 	gical	
2017		 Introduction to databases which provide input to perform ecologiniche models High school teacher Dinâmica Natural 	gical	
2017		 Introduction to databases which provide input to perform ecologiniche models High school teacher Dinâmica Natural Science classes 	gical J, Brazil	
2017 2015	•	 Introduction to databases which provide input to perform ecologiniche models High school teacher Dinâmica Natural Science classes SELECTED PUBLICATIONS Global land-use and land-cover data: historical, current and 	gical J, Brazil	
2017 2015		 Introduction to databases which provide input to perform ecologiniche models High school teacher Dinâmica Natural Science classes SELECTED PUBLICATIONS Global land-use and land-cover data: historical, current and future scenarios Accepted for publication in Biodiversity Informatics Journal, 	gical J, Brazil	
2017 2015		 Introduction to databases which provide input to perform ecologiniche models High school teacher Dinâmica Natural Science classes SELECTED PUBLICATIONS Global land-use and land-cover data: historical, current and future scenarios Accepted for publication in Biodiversity Informatics Journal, available in bioRxiv 	gical J, Brazil	
2017 2015 2021 2021		 Introduction to databases which provide input to perform ecological scheme models High school teacher Dinâmica Natural Science classes SELECTED PUBLICATIONS Global land-use and land-cover data: historical, current and future scenarios Accepted for publication in Biodiversity Informatics Journal, available in bioRxiv Authored by Vale MM, Lima-Ribeiro MS and Rocha TC. The first botanical explorations of bryophyte diversity in the Brazilian Amazon mountains: high species diversity, low 	gical J, Brazil	

NA

2019 2019 A dynamic continental moisture gradient drove Amazonian bird diversification

Science Advances

· Authored by Silva SM, Townsend P, Carneiro L, Burlamagui TCT, Ribas CC, Sousa-Neves T, Miranda LS, Fernandes AM, d'Horta FM, Araújo-Silva LC, Batista R, Bandeira CHMM, Dantas SM, Ferreira M, Martins DM, Oliveira J, Rocha TC, Sardelli CH, Gregory T, Rêgo PS, Santos MP, Sequeira F, Vallinoto M and Aleixo A.

2019 2019 A macroecological approach to evolutionary rescue and adaptation to climate change

Ecography

· Authored by Diniz-Filho JAF, Souza KS, Bini LM, Loyola R, Dobrovolski R, Rodrigues JFM. Lima-Ribeiro Matheus MS. Terribile CL. RangelTF. Bione I, Freitas R, Machado IF, Rocha TC, Lorini ML, ValeMM, Navas CA, Maciel NM, Villalobos F, Olalla-Tarraga MA, Gouveia S.

2015 2015 Molecular phylogeny and diversification of a widespread Neotropical rainforest bird group: The Buff-throated Woodcreeper complex, Xiphorhynchus guttatus/susurrans (Aves: Dendrocolaptidae)

Molecular Phylogenetics and Evolution

· Authored by Rocha TC, Sequeira F, Aleixo A, Rego PS, Sampaio I, Schneider H, Vallinoto M.

2014 2014 Instabilidade Climática e diversidade de espécies na Amazônia In book: Cenários para Amazônia: clima, biodiversidade e uso da

· Authored by Aleixo A, Townsend P, Araújo-Silva LC, Miléo CHM, Batista R, Burlamagui TCT, Danta SM, Fernandes AM, Ferreira M, Martins DM, Rêgo PS, Ribas CC, Rocha TC, Santos MP, Sardelli CH, Sequeira F, Soares LMS, de Sousa BRS, Sousa SA, Sousa-Neves T, Gregory T, Vallinoto M.

2009 2009 Identification and phylogenetic inferences on stocks of sharks affected by the fishing industry off the Northern coast of Brazil

Genetics and Molecular Biology

· Authored by Rodrigues-Filho LF, Rocha TC, Rego PS, Schneider H, Sampaio I, Vallinoto M.



MEMBER OF EXAMINATION COMMITTEE

2021

Leave out or put in - selecting input data to improve ecological niche models applied to conservation and climate change analysis: an approach using the Atlantic Goliath Grouper, Epinephelus itajara (Perciformes)

Final Master committee. Student: Eduardo Motta Carelli Minsky. Advisor: MAria Lucia Lorini. Institution: UNIRIO

Q UNIRIO-RJ, Brazil

Wallacean knowledge shortfall of mammals in the Central 2021 Corridor of the Atlantic Forest Final undergraduate committee. Student: Inês Motta Comarella. Advisor: Francisco Candido Cardoso Barreto. Institution: UFES • UFES-ES. Brazil Impacts on the food behavior of birds in the urban, semi-urban 2021 and rural environment in the municipal of Capanema, Pará Final undergraduate committee. Student: Luana Gabriela Costa Bezerra, Advisor: Breno Barros, Institution: UFRA ♥ UFRA-PA, Brazil Modeling species dis-tribution of plant species as tool for 2021 assessing the impacts of climate changes and progress of Sustainable Development Goals (SDGs) 13 and 15 in Caatinga Master's qualifying examination. Student: Lucas Peixoto Teixeira. Advisor: Marcelo Freire Moro. Institution: UFC **Q** UFC-CE. Brazil Strategies for conservation of endemic and threatened species: 2020 Hindsia glabra K.Schum E Aosa uleana (Urb.Gilg) Weigend Master's project monitoring committee. Student: Bárbara Piovani Luz Aieta Afonso. Supervisor: Marinez Ferreira de Siqueira. Institution: ENBT/JBRJ **♀** ENBT-RJ, Brazil Seabird habitat use and its association offoraging with Guiana 2018 dolphin (Sotalia guianensis) in Sepetiba Bay (2018). **Undergraduate monitoring committee**. Student:Leonardo Gomes Pacheco de Sá. Advisor: Maria Alice dos Santos Alves. Co-advisor: Rodrigo Hipolito Tardin Oliveira. Institution: UFRJ ♥ UFRJ-RJ. Brazil SELECTED TALKS & SCIENTIFIC COMMUNICATION Global land-use and land-cover data: historical, current and 2020 future scenarios **O**nline Final presentation in OLS-2|Slides

I recently created a website, I will talk about science communication, provide tutorials, other diverse themes about science career LiveFreeOrDichotomize.⁷

SELECTED EVENTS

RNP 2019 | Slides

2019

2021 V International Seminar on Statistics with R

Communication Technologies in Brazil

V SER event was recognized by the R Foundation (2018) for its pioneering in Latin America in bringing together an expressive number of R users Participation as a listener.

Connecting data and experiences: Biodiversity, Information and

Online

OF. Brazil

Forum of Rede Nacional de Ensino e Pesquisa

RNP 2019. Challenges of digital transformation in teaching and research will lead debates at 2019 RNP Forum | Participation as Guest speaker.

 \bigcirc DF, Brazil

This resume was made with the R packages **pagedown** and **datadrivency**.

Code available on 🖸 GitHub.

Last updated on 2021-07-26. The most recent version of this resume is available here.