

# Maria Gabriela Junqueira

PHD CANDIDATE IN ECOLOGY

Department of Ecology, Federal University of Rio Grande do Sul, Porto Alegre, Brazil

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## Education

### Federal University of Rio Grande do Sul (UFRGS)

Porto Alegre, Brazil

PH.D IN ECOLOGY

2020 - 2024

- Title PhD thesis: The distribution patterns of species abundance in aquatic communities
- Advisors: Prof. Dr. Luciane Oliveira Crossetti and Dr. Carlos Eduardo Wetzel

### Federal University of Rio Grande (FURG)

Rio Grande, Brazil

MASTER IN FRESHWATER BIOLOGY

2018 - 2020

- Title MSc thesis: The interaction between mesohabitat, grazers and substrate roughness affects species richness, abundance and composition of benthic diatoms
- Advisor: Prof. Dr. Fabiana Schneck

### State University of Maringá (UEM)

Maringá, Brazil

B.S IN BIOLOGICAL SCIENCES

2014 - 2017

- Title: Assembly and diversity of diatom communities in subtropical streams in southern Brazil
- Advisor: Prof. Dr. Liliana Rodrigues and Dr. Barbara Dunck

## Experience

### Luxembourg Institute of Science and Technology (LIST)

Belvaux, Luxembourg

ENVIRONMENTAL RESEARCH AND INNOVATION (ERIN) DEPARTMENT

Sep. 2023 - Feb. 2024

Visiting Researcher | Supervisor: Dr. Carlos Eduardo Wetzel

### University of Illinois Springfield (UIS)

Springfield, USA

PROJECT: CONSERVATION OR RESTORATION: STUDYING TWO LARGE RIVERS IN THE AMERICAS

Jun. 2017

Exchange Internship | Supervisor: Dr. Luiz Felipe Machado Velho and Dr. Keenan Edward Dungey

### The Research Center for Limnology, Ichthyology and Aquaculture (NUPELIA)

Maringá, Brazil

PROJECT: LONG TERM RESEARCH OF UPPER PARANÁ RIVER FLOODPLAIN

2014 - 2017

Undergraduate Research | Supervisor: Dr. Liliana Rodrigues

## Teaching

### Field monitor in the undergraduate Community Ecology course

2021-2023

- 2x 3 Day - Department of Ecology, Federal University of Rio Grande do Sul (UFRGS)

### Field monitor in the graduate-level Field Ecology course

2023

- 1 month - Department of Ecology, Federal University of Rio Grande do Sul (UFRGS) - National Florets of São Francisco de Paula, Brazil

### Basic and theoretical principles of data visualization

2022

- 1-Day Workshop - XVIII Brazilian Congress of Limnology (UESC) - remote

### Get started with organizing and visualizing data with tidyverse

2021

- 1-Day Workshop - State University of Santa Catarina (UESC) - remote

### Wrangling and visualizing ecological data in R

2020

- 1-Day Workshop - State University of Maringá (UEM) - 2020 - remote

### Data collected, now what? Basic concepts of using R for data wrangling

2019

- 2-Day Workshop - Federal University of Rio Grande (FURG) - Rio Grande

## GGPLOT2: Graphs with R

2019

- 1-Day Workshop - Department of Ecology, Federal University of Pará (UFPA) - Belém

## Skills

<b>Languages</b>	Portugues (native), English (fluent)
<b>Laboratory</b>	Taxonomy of Freshwater Diatoms, Light Microscopy, Scanning Electron Microscope
<b>Field Work</b>	Sampling of Floodplain, lakes, streams for micro-organisms, physicochemical measurements
<b>Programming</b>	CSS, html, R, SQL, Python
<b>Statistics</b>	R (e.g. vegan, adespatial, lm4, glmmTMB, tidymodels, phytools)
<b>Phylogenetics</b>	RAxML, BEAST, MEGA
<b>Visualization</b>	R (e.g. ggplot2, Shiny)
<b>Markup</b>	R (Rmarkdown), LaTeX

## Memberships and Services

Present	<b>Peer Review</b> , Acta Limnologica Brasiliensia, Environmental Microbiology	
Present	<b>Member</b> , International Society for Diatom Research (ISDR)	
Present	<b>Member</b> , R-Ladies Porto Alegre	
2022	<b>Evaluation committee</b> , Annual meeting of undergraduate research project, Federal University of Rio Grande do Sul (UFRS)	Porto Alegre, Brazil
2022	<b>Organizer &amp; Staff</b> , XVIII Brazilian Congress of Limnology	Remote
2018	<b>Organizer &amp; Staff</b> , VI Symposium of the Limnological Studies of Subtropical Climate	Rio Grande, Brazil
2017	<b>Staff</b> , XVII Annual Meeting of the Biological Sciences of Maringá	Maringá, Brazil
2015	<b>Staff</b> , XV Brazilian Congress of Limnology	Maringá, Brazil

## Publications

### Effects of mesohabitat, grazing and substratum roughness on locally common and rare diatom species

FRESHWATER BIOLOGY - 2023

- MG Junqueira, AS Melo and F Schneck

### Periphytic and planktonic algae records from the Upper Paraná River floodplain, Brazil: an update

HOEHNEA - 2018

- BD Oliveira, MG Junqueira, A Pereira, L Rodrigues, S Jati, M Silva, A Pineda, A Paula, B Zanco, G Moresco, P Iatskiu, J Bortolini, Y Souza, S Train and L Rodrigues

### Periphytic Cosmarium (Zygnematophyceae, Desmidiaceae) in lentic environments of the Upper Paraná River Floodplain: Taxonomy and ecological aspects

ACTA LIMNOLOGICA BRASILIENSIA - 2018

- N Osorio, A Polinario, B Dunck, L Carapunarla, MG Junqueira, U. Fernandes and L Rodrigues

## Papers in Review

### The role of habitat integrity, limnological variables and landscape coverage on periphytic algal communities in Amazonian streams

LIMNOLOGY

- L Palheta, L Corales MG Junqueira and BD Oliveira

## Presentation

### XXVII Symposium of Myrmecology: An International Ant Meeting

Manaus, Brazil

TALK - G BARBOSA AND MG JUNQUEIRA

2023

- The role of ants in floral visitation: an experimental approach in subtropical shrub

## XVIII Brazilian Congress of Limnology

TALK - **MG JUNQUEIRA**

- Working group - Young Limnologist

*Remote*

2022

## XVII Brazilian Congress of Limnology

POSTER - **MG JUNQUEIRA**, B DUNCK, L RODRIGUES

- Periphytic algal succession on natural substrate in a Floodplain Lake

*Rio De Janeiro, Brazil*

2017

## Annual Meeting of the Biological Sciences of Maringá

TALK - **MG JUNQUEIRA**, B DUNCK, L RODRIGUES

- Periphytic community and environmental heterogeneity in the Upper Paraná River Floodplain

*Maringá, Brazil*

2016

## Annual Meeting of the Biological Sciences of Maringá

POSTER - **MG JUNQUEIRA**, B DUNCK, L RODRIGUES

- Zygnemaphyceae composition in habitats with distinct heterogeneity

*Maringá, Brazil*

2016

## Annual Meeting of the Biological Sciences of Maringá

POSTER - **MG JUNQUEIRA**, B DUNCK, L RODRIGUES

- How heterogeneous habitat differentiate periphytic algal community density ?

*Maringá, Brazil*

2016

## R Packages

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### ButterflyColors

**GABRIELA JUNQUEIRA** & SOFIA CORADINI

2022

### SoilDiatom

**GABRIELA JUNQUEIRA** & CARLOS E. WETZEL

*Under development*