## Carolina Prauchner Silva – Curriculum Vitae

### **Contact Information**

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# **Summary**

Currently, I'm a double PhD candidate in the Postgraduate Program in Ecology at the Federal University of Rio Grande do Sul (UFRGS - Brazil) and at the Groningen Institute for Evolutionary Life Sciences at the University of Groningen (RUG - Netherlands). In my thesis, I'm studying patterns and evolutionary consequences of galling insects and its host plants interactions. In addition, I also work as a project ecologist at the company AEROGEO Aerofotogrametria, Geoprocessamento e Engenharia LTDA., where I have already identified more than 8 thousand plants for the formulation of a water piping project in the city where I live, evaluating possible environmental impacts to reduce them. I hold a master's in ecology and a bachelor's in biological sciences from UFRGS. During my undergraduate course, I participated in an exchange program where I studied at the University of Aberdeen for a year as part of the Science without Borders program, receiving a scholarship from CNPq.

## **Main Skills**

- o Languages: Portuguese (Brasil Native), English (Advanced), Spanish (Intermediate).
- o **Field work & Laboratory:** Insect sampling (sweep nets, pitfall traps, beat sheet), Insect and plant identification key, Light microscopy.
- o **Programming and Statistics:** R environment (*lm4*, *ape*, *bipartite*, *igraph*, *phytools*, *tydiverse*, *vegan*, *raster*, *letsR*, *ggplot2*), Bash, BEAST, html.
- Others: Interpersonal skills; Multicultural environments; Presentation and review of scientific papers; Organizational skills; Scientific writing.

## **Education**

Double degree PhD in Science and Ecology (2020 – ongoing)

Federal University of Rio Grande do Sul (UFRGS), Porto Alegre/RS, Brazil.

University of Groningen (RUG), Groningen, Netherlands

<u>Thesis:</u> Patterns and Evolutionary Consequences of Galling Insects and its Host Plants Interactions.

Advisors: Prof. Dr. Renan Maestri (UFRGS) & Prof. Dr. Rampal S. Etienne (RUG)

Co-advisor: Prof. Dr. Milton de Souza Mendonça Jr. (UFRGS)

## ○ Master degree in Ecology (2016 – 2019)

Federal University of Rio Grande do Sul (UFRGS), Porto Alegre/RS, Brazil.

<u>Dissertation:</u> Interaction networks of galler insect-parasitoid in closely related host plants: effects of galler oligophagy.

Advisor: Milton de Souza Mendonça Jr.

## O Bacharel em Ciências Biológicas (2010 – 2015)

Federal University of Rio Grande do Sul (UFRGS), Porto Alegre/RS, Brazil.

<u>Exchange period</u> at the University of Aberdeen, UK (Tutor: Iain Gibson) as part of Science without Borders program. Sponsored by: Conselho Nacional de Desenvolvimento Científico e Tecnológico, CNPq, Brazil.

# **Professional Experience**

#### **Project Ecologist**

- AEROGEO Aerofotogrametria, Geogrocessamento e Engenharia LTDA / Brazil (02/2024 ongoing)
  - At least 50,000 meters of projected pipeline had a survey and environmental impact analysis carried out;
  - More than 8,000 plants identified;
- Zoobotanical Foundation of Rio Grande do Sul / Brazil (08/2018 03/2019)
  - Part of a team of 3 biologists that lead 30 interns in digitising over 150,000 scientific collection records from various departments (Arthropods, Paleontology, Herbarium, Mammals, etc.);
  - Prioritised collections based on researcher needs, ensured data quality control and motivated the team to achieve project goals;

#### *Undergratuate Research:*

#### o Federal University of Rio Grande do Sul, UFRGS, Brazil

Laboratório de Ecologia de Interações (05/2015-12/2015)

Departamento de Ecologia, Instituto de Biociências.

Supervisor: Prof. Milton de Souza Mendonça Jr.

Scientific iniciation, Voluntary, 20h/week.

• Laboratório de Conservação e Manejo de Vida Silvestre (11/2014-05/2015)

Departamento de Ecologia, Instituto de Biociências.

Supervisor: Prof. Demétrio Guadagnin

Scientific iniciation, Voluntary, 20h/week.

• Tutorial Education Program (04/2012-09/2013)

Instituto de Biociências

Tutor: Prof. Andreas Kindel

Tutoring Student, Sponsored by MEC – Ministério da Educação e Cultura, 20h/week.

• Laboratório de Ictiologia (03/2011-11/2011)

Departamento de zoologia, Instituto de Biociências.

<u>Supervisor</u>: Prof. Clarice Bernhardt Fialho

Scientific iniciation, Sponsored by CNPq, 20h/week.

• Laboratório de Ictiologia (08/2010-02/2011)

Departamento de Zoologia, Instituto de Biociências.

<u>Supervisor</u>: Prof. Luiz Roberto Malabarba Scientific iniciation, Voluntary, 20h/week.

## o State Foundation for Agricultural Research, FEPAGRO, Brazil

Laboratório e Museu de Entomologia (06/2015-11/2015)
 <u>Supervisor</u>: Dr. Vera Regina dos Santos Wolff
 Internship, Trainee, 20h/week.

## University of Aberdeen, UoA, UK

• Oceanlab (06/2014-09/2014)

School of Biological Science, Institute of Biological & Environmental Sciences.

Supervisor: Prof. Graham Pierce

Trainee as part of Science Without Borders program, Sponsored by CNPq 20h/week.

## o Federal University of Rio Grande do Sul, UFRGS, Brazil

• Laboratório de Ecologia de Interações (05/2015-12/2015)

Departamento de Ecologia, Instituto de Biociências.

Supervisor: Prof. Milton de Souza Mendonça Jr.

Scientific iniciation, Voluntary, 20h/week.

## Previous experience:

#### o Junior Achievement/RS, Brazil

• Núcleo de Ex-Achievers, NEXA-RS (07/2007 – 12/2007) Human Resources Manager, Voluntary, 12h/week.

#### *Work presentation:*

- o **Prauchner, C.**; Armellini, P.S.; Oliz, C.B.; da Silva, D.C.; Wolff, V.R.S. IV Salão de Iniciação Científica e Inovação Tecnológica da FEPAGRO. *Preliminary study of insects occurring in an olive plantation, Barra do Ribeiro, Rio Grande do Sul.* 2015.
- o **Prauchner**, C.; XXVI Salão de Iniciação Científica da UFRGS. *Comparing assessments*. 2014.
- o **Prauchner**, C.; Fialho, C.B. XXIII Salão de Iniciação Científica da UFRGS. *Analysis of skeletal anomalies and histology of the fish community of the Papagaio River, Mato Grosso, Brazil.* 2011.

#### Workshop and Talks:

- Prauchner, C. Macroevolution and Ecology: How interactions can shape clade evolution. X
  Curso de Biologia Evolutiva da UFRGS. Promotion: Graduate Program in Animal Biology,
  UFRGS. 2024.
- o **Prauchner**, C. Galling insects and their host plants: Interaction patterns and evolutionary consequences. BIO-W2023. Promotion: Graduate Program in Animal Biology, UFRGS. 2023.
- o **Prauchner, C.** *Ecological concepts: applicability in activities in nature.* Federal Institute of Rio Grande do Sul (IFRS) *Campus* Restinga, Porto Alegre/RS, Brazil. 3h. 2019.

Prauchner, C. Ecology focused on Tourism. Federal Institute of Rio Grande do Sul (IFRS) –
 Campus Restinga, Porto Alegre/RS, Brazil. 6h. 2019.

#### Event Organization:

- o Etges, M.F.; **Prauchner, C.** *II Semana Acadêmica da Biologia da UFRGS*. 2013.
- o Etges, M.F.; **Prauchner, C.** *I Semana Acadêmica da Biologia da UFRGS*. 2012.

#### *Teaching:*

Projeto Educacional Alternativa Cidadã (PEAC). Volunteer Biology Teacher. (2016 – 2017 and 2019 –2023)

#### Participation in Bachelor's Final Work Comittee:

o Romanowski, H.P.; **Prauchner, C.**; Mendonça JR, M.S. Participation as a member of Sabrina Maria Becker's committee. 2021. Course Completion Work (Bachelor Degree in Biological Sciences). Federal University do Rio Grande do Sul (UFRGS), Brazil.

#### Student Represantation:

Postgraduate Program in Ecology (2021/2022 & 2023/2024)
 Instituto de Biociências, UFRGS.

## **Publications**

#### *Peer-reviewed articles:*

o **Prauchner, C.**; De Souza Mendonça, Milton. *What shapes galling insect-parasitoid interaction networks on closely related host plants?* ECOLOGICAL ENTOMOLOGY, 2023. DOI: https://doi.org/10.1111/een.13300

#### **Book Chapters:**

- O Almeida, T.S.; Nietschke, P.P.; Prauchner-Silva, C.; Fiedler, M.S. Impactos antrópicos e efeitos ecoevolutivos sobre a biodiversidade. In: Leonardo Augusto Luvison Araújo; Gilberto Cavalheiro Vieira. (Org.). Ensino de Biologia: Uma perspectiva evolutiva VOLUME II: BIODIVERSIDADE & EVOLUÇÃO. 1eded. São Carlos/SP: Diagrama Editorial, 2021, v. 2, p. 351-396.
- o Fiedler, M.S.; Nietschke, P.P.; Prauchner-Silva, C.; Almeida, T.S. Ecologia I: Explorando as inter-relações da vida sob a ótica evolutiva. In: Gilberto Cavalheiro Vieira; Leonardo Augusto Luvison Araújo. (Org.). Ensino de Biologia: Uma perspectiva evolutiva VOLUME I: INTERDISCIPLINARIDADE & EVOLUÇÃO. 1eded. São Carlos/SP: Diagrama Editorial, 2021, v. 1, p. 233-268.

#### Abstracts published in congress annals:

- o Mendonça Jr., M. de S. **Prauchner, C.**; Luz, F.A. *Building networks out of galls: complex tritrophic interactions. In*: 2nd Symposium on the Biology of Galls, 2021, Rio de Janeiro. Annals of the 2nd Symposium on the Biology of Galls, 2021. v. 1. p. 41-43
- o **Prauchner, C.** XXV International Congress of Entomology. *Network of monophagous and oligophagous galling insects (Diptera: Cecidomyiidae) and associated parasitoids.* Orlando. 2016.

## Magazine articles:

• Thomas, A.; Winkler, B.; **Prauchner, C.**; Raguse-Quadros, M.; De Souza Mendonça, M. *O caminho natural das águas e o nosso caminho natural*. UFRGS: Jornal da Universidade, Porto Alegre, 03 jun. 2024.

#### **Awards**

- Featured presentation at Special Session: Science Without Borders. XXVI Salão de Iniciação Científica da UFRGS. 2014.
- o Community merit, Junior Achievement Brazil. 2007.

#### **Skills**

- o Languages: Portuguese (Brazil Native), English (Advanced), Spanish (Intermediate).
- Field work & Laboratory: Insect sampling (sweep nets, pitfall traps, beat sheet), Insect and plant identification key, Light microscopy.
- o **Programming and Statistics:** R environment (*lm4*, *ape*, *bipartite*, *igraph*, *phytools*, *tydiverse*, *vegan*, *raster*, *letsR*, *ggplot2*), Bash, BEAST, html.
- Others: Interpersonal skills; Multicultural environments; Presentation and review of scientific papers; Organizational skills; Scientific writing.

#### References

- o Prof. Renan Maestri, UFRGS. renanmaestri@gmail.com
- o Prof. Rampal S. Etienne, RUG. r.s.etienne@rug.nl
- o Prof. Milton de S. Mendonça Jr., UFRGS. milton.mendonca@ufrgs.br
- o Dr. Matheus F. Etges, UFRGS. <u>matheus.etges@gmail.com</u>