

JEANNE FRANCO

Searching for a post-doctoral position in Ecology

Bachelor in Ecology, Master in Forest Sciences and PhD in Ecology from the Universidade Federal do Rio Grande do Norte. During my graduate and doctoral studies I gained experience evaluating the effect of native tree and herbaceous species diversity on the ecological restoration of degraded semi-arid environments. During my master's degree I conducted field investigations to evaluate the natural regeneration of tree species in a mangrove area. I am interested in restoration ecology, plant ecology, invasive exotic species, recovery of degraded areas, data science with R Software, and scientific outreach.



EDUCATION

- 2009
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2014 • **Universidade Federal do Rio Grande do Norte - UFRN**
B.S. in Ecology Natal, RN, Brazil
- 2015
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2017 • **Unidade Acadêmica Especializada em Ciências Agrárias - UFRN**
M.S. in Forestry Sciences Jundiaí, RN, Brazil
- 2018
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2022 • **Universidade Federal do Rio Grande do Norte - UFRN**
PhD in Ecology Natal, RN, Brazil

COMPETENCIES

- **Restoration ecology in semi-arid environments**
 - Research and publications in the area of restoration ecology. During my doctorate I analyzed the effect of the diversity of tree species in the restoration of degraded environments of the Caatinga. I also analyzed the invasion process of exotic species in degraded environments dominated by herbaceous species.
- **Species identification**
 - Production of a field guide on herbaceous, climbing, subshrub, and shrub species found in the semi-arid Caatinga region.
- **Restoration ecology in mangrove forests**
 - Evaluation of the natural regeneration of arboreal vegetation, soil quality (pH and temperature) and water quality (salinity) over time in a mangrove area degraded.
- **Scientific graphs with the ggplot2 package**
 - About 10 years of experience in R with producing detailed and elegant graphs. I produce bar, line, scatter, histogram, density, box-plot and violin plots..

CONTACT INFO

- ✉ jeanne.raquel02@hotmail.com
- in [linkedin.com/in/francojra](https://www.linkedin.com/in/francojra)
- github.com/francojra
- ☎ +55 (84) 99978-1275

SKILLS

Research with ecological restoration and species identification in semi-arid and coastal forest ecosystems;

Studies on invasion of exotic species;

Statistical analysis and modeling, map analysis, visualization and data manipulation in R Software.

*This resume was made with the R package **pagedown**.*

- **Descriptive statistical analyses with the *dplyr* package**

- Experience in data manipulation with variable selection and creation, filtering values, calculating averages, errors and standard deviations, and joining tables..

- **Production of maps with the *maps*, *leaflet* e *ggrepel* packages**

- Experience in producing interactive and static maps in R.

- **Basic knowledge in producing graphics with Python**

- Production of bar, line, scatter, histogram, and box-plot graphs, and descriptive statistical analysis.



PAPERS AND ABSTRACTS PUBLICATIONS

2021

- **The influence of herbaceous vegetation on the colonization of native and invasive trees: consequences for semiarid forest restoration**

Revista Restoration Ecology

Authors: Franco, J. R. A.; Paterno, G. B.; Ganade, G.

2016

- **Franco, J. R. A.; Paterno, G. B.; Ganade, G. Efeito da Vegetação de Áreas Degradadas sobre a Invasão da Espécie *Leucaena leucocephala***

I Congresso Internacional da Diversidade do Semiárido

(Paper/Congress Presentation)

Authors: Franco, J. R. A.; Paterno, G. B.; Ganade, G.

2021

- **Efeito da diversidade de arbóreas na vegetação herbáceo-arbustiva durante a fase inicial de restauração ecológica**

III Conferência de Restauração Ecológica e I Seminário de Sementes Nativas (Paper Presentation/Conference or lecture).

Authors: Franco, J. R. A.; Ganade, G.

2020

- **Relação Evolutiva entre Espécies de uma Área do Semiárido em Processo de Restauração**

I Simpósio Digital de Sistemática e Evolução de Plantas

(Paper/Symposium Presentation)

Author: Franco, J. R. A.

2019

- **Florística do Estrato Herbáceo em Áreas Degradadas da Caatinga**

I Simpósio de Ecologia e Conservação do Semiárido

Authors: Franco, J. R. A.; Paterno, G. B.; Ganade, G.

- 2019 ● **Papel da Diversidade, das Relações Filogenéticas e de Fatores Abióticos nas Interações entre Espécies do Semiárido**
Seminários em Ecologia (Paper/Seminar Presentation).
Authors: Franco, J. R. A.; Ganade, G.
- 2019 ● **Efeito da paisagem e da densidade de indivíduos sobre a estrutura etária da carnaúba (*Copernicia prunifera*)**
I Simpósio de Ecologia e Ciências Multidisciplinares
(Paper/Symposium Presentation)
Authors: Franco, J. R. A.; Bezerra, P. E. S.; Brito, S. S. H.; Venticinque, E. M.
- 2013 ● **Análise da quantidade de plântulas de *Leucaena leucocephala* em dois parâmetros: distância em relação à planta mãe e cobertura do solo**
XII Simpósio do Centro de Biociências: Empreendedorismo e Inovação em Biociências (Paper/Symposium Presentation)
Author: Franco, J. R. A.
- 2012 ● **Ação Integrada: conhecimento, ética e eficiência: ações para o manejo da população de felinos domésticos (*Felis silvestris catus*) abandonados na área do campus central da UFRN**
Semana de Ciência, Tecnologia e Cultura (Paper Presentation/Communication)
Authors: Franco, J. R. A.; Silva, H. P. A.



SCIENTIFIC PROJECTS

- 2017
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2022 ● **Desenvolvimento de técnicas avançadas de restauração de ecossistemas degradados de Caatinga, Mangue, Duna e Floresta Amazônica**
Coordinator: Gislene Ganade
- 2013
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2014 ● **Restauração de Caatinga visando o funcionamento e a resistência à desertificação dos sistemas semiáridos**
Coordinator: Gislene Ganade
- 2012 ● **Conhecimento, Ética e Eficiência: Ações para o manejo da população de felinos domésticos (*Felis silvestris catus*) abandonados na área do Campus Central da UFRN**
Coordinator: Helderes Peregrino Alves da Silva



ORIENTATIONS AND PARTICIPATION IN ADVISORY COMMITTEE

- 2019 ● **Guia de Campo Herbáceas da Caatinga. Scientific Initiation. Universidade Federal do Rio Grande do Norte. Advisor: Jeanne Raquel de Andrade Franco.**
Undergraduate students in Ecology: Cássia Ferreira de Oliveira; Virgínia Silva Maciel; Ana Paula Melo da Silveira.

2020

- **Ganade, G.; Marinho, F. P.; Franco, J. R. A. Efeito da Serrapilheira Foliar de Espécies Herbáceas sobre a Decomposição Foliar de Espécies Arbóreas na Caatinga. Course Conclusion Paper (Bachelor in Ecology). Universidade Federal do Rio Grande do Norte.**
Undergraduate student in Ecology: Néstor Eduardo Sículo.



CERTIFICATIONS IN ECOLOGY

2011

- **Training in Recuperation of Degraded Areas**
12 horas

2012

- **Environmental Education and Sustainability**
40 horas

2012

- **Environmental Valuation**
6 horas

2013

- **Logical Method for Scientific Writing**
12 horas

2016

- **Course in Initiation to Teaching**
45 horas

2018

- **Phylogenetic analysis using molecular data**
6 horas

2019

- **Introduction to QGIS software**
4 horas

2019

- **I Minicourse on Vectorization of Scientific Design**
4 horas

2020

- **How to prepare, evaluate, publish and disseminate a scientific paper**
8 horas

2021

- **Non Timber Forest Products: Residues or Products**
12 horas

2022

- **Academic Planning Workshop - Research in Practice**
8 horas



CERTIFICATIONS IN R AND PYTHON LANGUAGES

2013

- **Randomization Techniques in Biostatistics using R**
6 hours

2019

- **Introduction to R software**
4 hours

2019

- **Introduction to the R language for ecology and related areas**
8 hours

2019

- **Entering the world of Python for Data Science**
8 hours

- 2020 ● **Introduction to Phylogenetic Ecology with R**
5 hours
- 2020 ● **Generalized Linear Models in R**
8 hours
- 2021 ● **Reports and Presentations in RMarkdown**
4 hours
- 2021 ● **Introduction to Big Data**
4 hours
- 2021 ● **Introduction to R**
15 hours
- 2021 ● **Introduction to Tidyverse**
15 hours
- 2022 ● **Data Science with R**
7 hours
- 2022 ● **Tidyverse universe: transforming data with the dplyr package**
4 hours
- 2022 ● **Meta-analysis: an introduction with metadigitise e metafor packages**
4 horas
- 2022 ● **Tidyverse universe: from R to SQL with dbplyr packages**
4 horas



EXPERIENCE TEACHING THE R LANGUAGE

- 2022 ● **Data visualization with ggplot2 e dplyr**
R Ladies Ribeirão Preto
- 2022 ● **Plots in R with ggplot2**
Beta Analítica
- 2022 ● **Graphical foundations of the ggplot2**
Beta Analítica
- 2021 ● **R for beginners**
R-Ladies Natal
- 2021 ● **Introduction to RMarkdown**
R-Ladies Natal
- 2020 ● **Producing ggplot2 graphs in a few minutes**
R-Ladies Natal
- 2020 ● **Introduction to R: Step by step for beginners**
R-Ladies Natal
- 2020 ● **Data visualization in R with ggplot2**
Beta Analítica

2020

- **Webnar: Producing graphs ggplot2 in R**
Beta Analítica



VOLUNTARY AND PROFESSIONAL EXPERIENCE

2020

2022

- **R-Ladies Natal**
R-ladies is a worldwide organization with a mission to promote diversity gender through events and course applications using the software R.

2020

2022

- **Beta Analítica**
Company that assists in statistical analysis consultancies.



FOREIGN LANGUAGES

- **Basic Spanish**

- Course in Fundação de Apoio a Educação e ao Desenvolvimento Tecnológico do RN (FUNCERN) – 72 hours
- Proficiency test score from Departamento de Língua e Literatura Estrangeiras (Universidade Federal de Santa Catarina) – 9.5

- **Intermediate English**

- Full course (FUNCERN) – 3 years
- Course in Núcleo de Línguas da UFRN (Programa Idiomas sem Fronteiras) – 48 hours
- Course My English Online – 60 hours
- TOEFL ITP score – 450
- Proficiency test score (COMPERVE - Universidade Federal do Rio Grande do Norte) – 8.1