

# Alberson Miranda

DATA SCIENTIST | R DEVELOPER | ECONOMIST | MATHEMATICIAN

Vitória, Brazil

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## Industry Positions

### Bank of the State of Espírito Santo

Vitória, Brazil

ADVISOR (CREDIT RISK MODELING OFFICE)

Jul. 2024 - Present

- Develop, monitor, and fine-tune expected credit loss models (IFRS9) using statistical and machine learning techniques.
- Stack: R, Python, Google Cloud Platform, MS SQL Server, VSCode, Jira, Bitbucket.

### Bank of the State of Espírito Santo

Vitória, Brazil

ADVISOR (CREDIT INNOVATION OFFICE)

Jan. 2020 - Jun. 2024

- Trained, evaluated, and interpreted statistical models to support data-driven decision-making.
- Designed customer segmentation models to support the launch of a new credit card, and formulated pricing equations for service fees and loyalty incentives.
- Contributed to the implementation of the company's first enterprise data warehouse, enabling centralized and scalable data analytics

### Bank of the State of Espírito Santo

Vitória, Brazil

HEAD OF COLLECTION

Apr. 2014 - Dec. 2019

- Developed and implemented collection strategies that improved recovery rates by 12% annually.
- Applied econometric techniques for optimized collection and budget planning.
- Designed and maintained a MySQL database tailored to collection operations.
- Introduced the R programming language to the company, enhancing data analysis capabilities.

### Bank of the State of Espírito Santo

Vitória, Brazil

CREDIT ANALYST

Jul. 2008 - Mar. 2014

## Education

### Universidade Federal do Espírito Santo

Vitória, Brazil

PHD IN ECONOMICS

Jan. 2024 - Dec. 2027

- Thesis: "Essays in Hierarchical Time Series".

### Universidade Federal do Espírito Santo

Vitória, Brazil

M.SC IN ECONOMICS

Jan. 2022 - Dec. 2023

- Thesis: "Machine Learning Methods for Optimal Reconciliation of Hierarchical and Grouped Time Series."

### Instituto Federal do Espírito Santo

Vitória, Brazil

B.SC IN MATHEMATICS

Feb. 2018 - Dec. 2023

### Universidade Federal do Espírito Santo

Vitória, Brazil

B.SC IN ECONOMICS

Feb. 2007 - Dec. 2013

## Open Source

### fio

R Package

AUTHOR/MAINTAINER

- A Rust-powered R package designed for lightning fast economic input-output analysis (<https://albersonmiranda.github.io/fio/>).

### rextendr

R Package

CORE CONTRIBUTOR

- An R package that helps scaffolding extendr-enabled packages or compiling Rust code dynamically (<https://extendr.github.io/rextendr/>).

### R Tools PPA

Linux Repository

AUTHOR/MAINTAINER

- A PPA for distributing the latest versions of RStudio, Quarto, and Positron for Linux users (both .deb and .rpm) ([https://albersonmiranda.github.io/r\\_tools\\_ppa/](https://albersonmiranda.github.io/r_tools_ppa/)).

# Projects

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## R for Data Science

Book

TRANSLATOR

- Translator of the portuguese version of the book “R for Data Science” by Hadley Wickham and Garrett Golemund (<https://pt.r4ds.hadley.nz/>).

## GBIF Biodiversity

Shiny web app

AUTHOR

- A Docker image containing a Shiny app for visualizing global biodiversity data ([https://albersonmiranda.shinyapps.io/Global\\_Biodiversity/](https://albersonmiranda.shinyapps.io/Global_Biodiversity/)).