# Fernando da Silva

DATA SCIENTIST

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## About me

I am a data scientist specialized in economics and finance. I have 4+ years of experience working with data, time series models, econometrics, machine learning, ETL process, EDA and visualization, including reports and dashboards. I have 3+ years of real-world experience implementing projects and developing products using R, Python, Git, and GitHub.

I am curious, adaptable, and focused. I am always open to new challenges and I really enjoy creating new things.

## Work experience

### Análise Macro

DATA SCIENTIST                                                                    *May 2021 - Present · 1 yr 10 mos*

- Development of predictive models using statistics, econometrics and machine learning for 13 Brazilian macroeconomic variables;
- Development, deployment, and monitoring of 4 time series predictive models;
- Development of reports and dashboards using Quarto, R Markdown, Shiny, and Plotly Dash;
- Development of R packages and release of the nucleos package for core inflation analysis;
- Development of ETL processes working with larger-than-memory datasets using R, Python, and SQL;
- Development of web scraping for various static and dynamic pages using R, RSelenium, httr2, and others;
- Macroeconomic analysis of Brazilian data using macroeconomic models such as the IS curve, Phillips curve, and Taylor rule;
- Time series analysis using EDA, decomposition, filters, autocorrelation, seasonality, stationarity, cointegration, Box-Jenkins methodology, univariate and multivariate models, and forecasting;
- Classes and courses on predictive models, econometrics, forecasting, macroeconomics, time series analysis, dashboards, reports, programming with R, Python, SQL, and others.

### Banrisul

INTERN                                                                              *Jan 2018 - Dec 2019 · 1 yr 11 mos*

- Risk analysis and credit granting for SME portfolio (credit operations, personal/real guarantees, registration, provisions, etc.);
- Investment and application advice (fixed income securities, investments/redemptions, simulations);
- Customer service and sale of financial products (individual/corporate registration, account opening, aggregation of cross-sell products).

## Education

### Federal University of Rio Grande (FURG)

BACHELOR'S IN ECONOMICS                                                                             *Mar 2014 - Dec 2019*

### Federal Institute of Mato Grosso (IFMT)

ASSOCIATE'S IN INFORMATION TECHNOLOGY                                                                *Jul 2009 - Jan 2011*

## Portfolio

| | |
|---|---|
| 2021 | **meedr**: R client for the Central Bank of Brazil macroeconomic expectations data API. `https://fortietwo.com/meedr/` |
| 2020 | **Macro View**: Brazilian macroeconomic data dashboard developed in R. `https://fortietwo.com/macroview/` |
| 2017 | **Macro Report**: Quarterly report on the analysis of Brazil's economic situation. `https://gecefurg.com.br/boletins/boletim-macro/` |

## Volunteering

### Economic Situation Study Group (GECE/FURG)

MACROECONOMIC ANALYST                                                              *Sep 2017 - Dec 2020 · 3 yrs 3 mos*

- Group co-founder, leading management activities, economic data analysis, and content creation;
- Quarterly publication and presentation of economic situation reports, covering monetary policy;
- Creation and automation of economic data reports and dashboards using the R language, Git, and GitHub.

**AIESEC**

- Business Development Ambassador (Aug 2016 - Jan 2017): development of the B2B area, partnership prospecting and spreading of engagement campaigns.
- Relationship Manager of Marketing (Jul 2016 - Jan 2017): partnership prospecting with student organizations, alumni relationship building, event organization.
- Operations Manager of Talent Management (Jan 2016 - Jun 2016): productivity and HR retention analysis by operation, identifying improvement gaps in sales teams, report compilation and presentation.

**Estudar Foundation**

Volunteer Partner                                                                                                *Nov 2015 - Oct 2017 · 2 yrs*

- The mission of the "Leadership 16h" volunteer is to enable the realization of the course in a larger volume and quality, reinforcing the mission of the Estudar Foundation to develop a transformative leadership throughout the country. As a Partner, I worked on the promotion, sale, logistics and infrastructure of two editions in Rio Grande RS, in the years of 2015 and 2017, where we were successful in enrollments.

# Skills

- R (4 years)
- Python (2 years)
- Quarto (1 year)
- Git (4 years)
- GitHub (4 years)
- SQL (1 year)

# Languages

- Portuguese (Native)
- English (Intermediate)