

Ricardo Semião e Castro

Contact

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Skills

- **Languages:** Fluent English (CAE)
- **Programming:** R, Python
Familiar with: JavaScript, Julia, Stata
- **Document:** LaTeX, Web, Quarto, Office
- **Tools:** Git/GitHub, SQL, Docker

Awards

- ANPEC exam, the Brazil-wide admission for master's students in economics.
 10th place (2023).
- [Prediction challenge](#) for investment flow in the Brazilian stock exchange, using a neural network.
 2nd place (2022, Constellation A. M.).
- Academic assignments: Ridge and Lasso regression on salary determinants; Nations clustering with WTO data.
 1st and 2nd place in the category (2020 and 2021, FGV-EESP).

Other Activities

- Voluntary work during high school. Worked in daycare, nursing homes, and hospitals.
- Volunteer teacher in the EESP Ensina Project (2022 - 2023). Taught economics to high school students.
- Member of the Scout Movement (2010 - 2021). Developed socio-environmental activities.

Education

- Bachelor's Degree in Economics - FGV-EESP (2019 - 2023)
- Master's Degree in Economics - FGV-EESP (2024 - ongoing)

Experience

- **Researcher**
ADB Sindical (syndicate of diplomats) 08/2024 - *ongoing*
Research on the diplomatic career path and its barriers. Creation of a predictive calculator for individual's careers ([atualizamre.com.br/calculadora](#)). Data scrapping, reorganization, and validation from different media sources.
- **Research Assistant**
FGV-EESP & Ripple 10/2022 - 04/2023
Development of a [R-Shiny application](#) for crypto portfolio optimization and analysis.
- **Econometrics I Teaching Assistant**
FGV-EESP 02/2022 - 06/2023
Conducted exercises, theoretical classes, and R teaching sessions.
- **Vice President, HR Director**
GVCode (data science league at FGV) 06/2020 - 12/2023
Coordinated all league activities, created and conducted selection processes and trainee programs. Data science projects.
- **Private Tutor in Statistics, R, and Python**
Private lessons for college students. Active in StackOverflow: 260 answers in over 125 tags, peaked at top 5% in the R community.

Projects

- Code packages: [mtsdesc](#) for multivariate time series visualization and testing; [phyopt](#) for numerical optimization with population-based hybrid algorithms.
- Educational material about R ([RFCID](#)), with classes being given at GV's teaching assistantship and GVCode.
- Thesis: [Graduation thesis](#) on SVAR models applied to epidemiology; [Masters thesis](#) on performance analysis of regime-switching models via Monte Carlo simulations.
- My personal website built with bare HTML/SCSS/JS, and python scripts to orchestrate components and the blog.