

# 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](https://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: **mtsdsc** for multivariate time series visualization and testing; **phyopt** for numerical optimization with population-based hybrid algorithms.
- Educational material about R (**RFCD**), 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.