Ricardo Semião e Castro

Education and Skills

Education	Bachelor's Degree in Economics - FGV-EESP (2019 - 2023)
	Master's Degree in Economics - FGV-EESP (2024 - ongoing)
Languages	Fluent English - Cambridge English: Advanced (C1) Certificate
Programming	R | Python | Julia | Stata
Documenting	LaTeX | HTML/CSS | Quarto | Microsoft Office

Experience

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 sessions.

Vice President, HR Director

GVCode (programming league at FGV)   06/2020 - 12/2023

Coordinated all league activities, created and conducted selection processes and trainee programs. Executed projects related to programming and data science.

Private Tutor in Statistics, R, and Python

Private lessons for university students. Active in StackOverflow: 260 answers in over 125 tags, top 5% in the R community.

Projects and Awards

- Prediction Model for investment flow in B³ using a neural network.
🏆 2nd place in the Dev Challenge (2022, Constellation A. M.).
- ANPEC exam, the Brazil-wide admission for master's students in economics.
🏆 10th place (excluding Brazilian economics).
- Article awards: Ridge and Lasso regression analysis on salary determinants; Clustering analysis of countries with WTO data.
🏆 1st and 2nd place in each category (2020 and 2021, EESP).
- Developing of code packages: mtdesc for multivariate time series visualization and testing; phyopt for creating population-based hybrid-optimization algorithms; and morphdown for programmatically modifying markdown file structures.
⧖ In development.
- Development of educational material about R, with voluntary classes being given at GVCode.
⧖ In development.
- Graduation thesis on SVAR models applied to epidemiology, and Masters thesis on performance analysis of regime-switching models via Monte Carlo simulations.
- See more on my Github.

Other Activities

- Voluntary work during high school. Worked in daycare centers, 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.