João Alcindo Ribeiro de Azevedo

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EDUCATION

Masters' Degree: Applied Math and Data Science — Mar 2024 – Present
FGV EMAp School of Applied Mathematics — *Cumulative GPA: 3.57/4.0*
- Expected Graduation: March 2026
- Advisor: Prof. Dário Oliveira.

Bachelor's Degree: Data Science and Artificial Intelligence — Feb 2020 – Dec 2023
FGV EMAp School of Applied Mathematics — *Cumulative GPA: 8.8/10*

PROFESSIONAL EXPERIENCE

FGV EMAp Green AI Lab — Jan 2024 – Present
Research Assistant
- Conducting research in computer vision and deep learning applied to geospatial satellite imagery for sustainability and environmental monitoring.
- Developing a Master's project on soil parameter estimation using hyperspectral airborne and satellite data with advanced deep learning architectures.
- Working with Large Language Models (LLMs) to address real-world challenges, including building decision-support tools for interpreting large document collections and automated question generation.

FGV IBRE Brazilian Institute of Economics — July 2023 – Feb 2024
Intern in Data Science (Innovation Superintendency)
- Contributed to an Artificial Intelligence study group, teaching concepts related to Transformer-based models.
- Applied NLP techniques and Transformer models to classify news articles and products, enhancing analysis and categorization processes.

CAPSTONE Partners Gestão de Recursos — June 2022 – Apr 2023
Intern in Data Science and Macroeconomic Research
- Developed detailed macroeconomic reports covering various regions, focusing on Europe and the United States.
- Utilized web scraping techniques to gather data on Brazilian economic indicators and specific countries' inflation metrics.
- Conducted macroeconomic research, including analysis of the U.S. labor market and the impact of temperature variations on gas consumption in Europe.

TEACHING EXPERIENCE

FGV EMAp School of Applied Mathematics — Feb 2022 – Dec 2025
Teaching Assistant
- Neural Networks and Deep Learning (Graduate, 2025)
- Deep Learning (Undergraduate, 2023, 2024)
- Numerical Linear Algebra (Undergraduate, 2022)

FGV EPGE Graduate School of Economics — Aug 2022 - Dec 2022
Teaching Assistant
- Introduction to Applied Data Science for Economics (Graduate, 2022)

EXTRACURRICULAR ACTIVITIES

CNPq – National Council for Scientific and Technological Development — Aug 2020 – Aug 2022
Undergraduate Research Fellow (PICME)
- PICME is a highly competitive national program that offers advanced mathematical training to undergraduate students who excelled in the Brazilian Mathematics Olympiads (OBMEP/OBM medalists).

- Through a CNPq scientific initiation fellowship, selected students join graduate-level mathematics courses while completing their undergraduate studies.
- The program supports only the top-performing students in the country and provides early immersion in research and advanced theoretical training.

FGV+ Social Impact Initiative   Mar 2021 – Dec 2022
Volunteer
- Led four consulting projects for NGOs supporting low-income families in Rio de Janeiro.
- Developing financial literacy tools and organizing budget strategies for these organizations.

AWARDS

- **CAPES Graduate Fellowship:** Full tuition coverage and monthly stipend awarded by the Brazilian Ministry of Education (2024–Present).
- **FGV CDMC Merit Scholarship:** Full undergraduate tuition waiver awarded for outstanding performance in National Mathematics Olympiads (2020–2023).
- **Brazilian Public School Mathematics Olympiad (OBMEP):** 1 Gold (2016), 1 Silver (2019), 3 Bronze (2014, 2015, 2017).
- **São Paulo Mathematics Olympiad (OPM):** 2 Silver (2015, 2016).

ADDITIONAL INFORMATION

- **Programming Languages:** Python, R, Matlab, Julia.
- **Languages:** Portuguese (Native), English (Advanced).