

Arthur Mota

Economist & Strategist

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in arthurlmota
Brazilian, Single, Age 32

Professional Objective

Macroeconomic analysis (global and domestic), econometric modeling of financial variables, investment strategies, and quantitative research with focus on forecasting and scenario analysis.

Professional Profile

Economist and strategist with extensive experience in macroeconomic forecasting, econometric modeling, and quantitative finance. Specialized in global markets analysis covering inflation dynamics, interest rates, and foreign exchange. Strong background in both traditional econometric methods and modern machine learning applications for economic forecasting. Proven track record in investment strategy formulation and client advisory services across institutional and retail segments.

Education

2018–2019 **MSc in Applied Economics**, *University of São Paulo (USP)*, São Paulo, Brazil.

2011–2015 **Bachelor in Economic Sciences**, *Federal University of São Paulo (UNIFESP)*, São Paulo, Brazil.

Professional Experience

Jun **Economist & Strategist**, *BTG Pactual*, São Paulo, Brazil.

2020–Present *Global Markets Research - Sell-side Analysis*

- Economist and strategist specializing in forecasts and onshore/offshore scenario analysis, with focus on inflation, interest rates, and foreign exchange
- Currently covering Global Markets with extensive experience in Brazil, particularly economic activity and exchange rates
- Develop macroeconomic forecasts and scenarios for US, Major Europe, and China (inflation, economic growth, policy interest rates, and exchange rates)
- Establish strategic and tactical asset allocation models across fixed income, equities, and FX
- Provide trade ideas and investment recommendations to institutional and retail clients
- Apply advanced econometric techniques and machine learning methods including Random Forest, k-NN, SVM, NNAR, and ELM for economic modeling and forecasting
- Produce daily, weekly, and monthly research reports and client presentations
- Support equity and fixed income research teams, trading desks, and direct B2B/B2C clients
- Active member of investment strategy committee, determining allocations by risk profile and asset class
- Programming and analysis using R and EViews platforms

- Oct **Economist**, *LCA Consultores*, São Paulo, Brazil.
- 2019–May *Market Intelligence & Econometric Modeling*
- 2020
- Focused on econometric modeling for client scenario forecasting
 - Enhanced analytical systems through R programming and database development
 - Conducted market sizing, share analysis, and pricing studies
- Jan **Consultant**, *Agromove*, São Paulo, Brazil.
- 2019–Oct *Quantitative Research (Part-time during MSc)*
- 2019
- Developed algorithmic trading strategies for agricultural commodities
 - Applied neural networks and machine learning techniques to large datasets
 - Specialized in commodity price forecasting and trading signal generation
- Aug **Junior Economist**, *São Paulo Federation of Industries (FIESP)*, São Paulo, Brazil.
- 2014–Dec *Economic Research & Analysis*
- 2017
- Produced daily reports on national and global economic indicators with forecasts
 - Maintained and updated short and long-term econometric forecasting models
 - Analyzed Brazilian economic data from IBGE, Central Bank, and international sources
 - Delivered economic scenario presentations to board members and industry associates
- Jun **Intern**, *São Paulo Federation of Industries (FIESP)*, São Paulo, Brazil.
- 2013–Aug
- 2014
- Jan **Financial Analyst**, *Bradesco Corretora*, São Paulo, Brazil.
- 2011–Jun *Institutional Trading Support*
- 2013
- Supported BM&F and Bovespa trading desks for institutional clients
 - Prepared operational reports and monitored trade distribution
 - Managed financial settlements, client confirmations, and custody operations
- Oct **Intern**, *Bradesco Corretora*, São Paulo, Brazil.
- 2009–Dec
- 2010

Technical Skills

- Programming **Advanced:** R (econometrics, machine learning, data visualization)
Intermediate: EViews (time series analysis, forecasting)
- Statistical Methods Econometrics, Time Series Analysis, Forecasting Models, Machine Learning (Random Forest, k-NN, SVM, NNAR, ELM)
- Financial Modeling Asset Allocation Models, Risk Management, Portfolio Optimization, Scenario Analysis
- Software Microsoft Office Suite, Bloomberg Terminal, Refinitiv Eikon
- Languages **English:** Advanced (writing and reading), Intermediate (communication)
Portuguese: Native
Spanish: Intermediate

Professional Development

- Feb–Aug **Statistical Learning**, *Stanford University*, Online.
- 2019
- Sep–Dec **Macroeconometric Forecasting in EViews**, *IMFx*, Online.
- 2018

Research Interests

- Global Macroeconomics (US, EU, China)
- Monetary Policy and Central Banking
- International Finance and Exchange Rates
- Applied Econometrics and Time Series
- Machine Learning Applications in Economics
- Debt Sustainability and Sovereign Risk
- Safe Asset Demand and Portfolio Theory

Academic Publications & Working Papers

- 2025 **Debt Sustainability Under Endogenous Yields: A Theoretical Model of Safe Asset Demand**, *Working Paper*.
Co-authored theoretical framework examining how global safe asset demand affects sovereign debt sustainability, with particular focus on the US “exorbitant privilege” and its implications for debt dynamics.
- 2025 **Portfolio Theory without a Risk-Free Asset: Safety as a Fragmented and Endogenous Concept in a Multipolar World**, *Working Paper*, University of São Paulo.
Development of portfolio theory framework addressing the absence of universally risk-free assets in contemporary fragmented global markets, incorporating investor-specific safety preferences and institutional constraints.
- 2021 **Métodos de previsão de prêmios para o Seguro Agrícola e destinação de recursos públicos ao Programa de Subvenção ao Prêmio do Seguro Rural**, *Revista de Economia e Sociologia Rural*, Vol. 60.
Mota, A. L., Miquelluti, D. L., & Ozaki, V. A. Analysis of premium forecasting methods for agricultural insurance and public resource allocation.
- 2020 **Predição de sinistros agrícolas: uma abordagem comparativa utilizando aprendizagem de máquina**, *Economia Aplicada*, Vol. 24(4), pp. 533-554.
Mota, A. L., Miquelluti, D. L., & Ozaki, V. A. Comparative analysis of machine learning approaches for agricultural loss prediction.

Additional Information

Professional Memberships	Brazilian Association of Applied Economics (ANPEC)
Research Focus	Intersection of macroeconomics, financial markets, and quantitative methods
Industry Recognition	Regular contributor to major Brazilian financial media outlets