Alejandro Moral Aranda

Finance, Data Science and Programming

I enjoy coding, finance, and mathematics. I love diving into complex financial concepts and solving challenges through programming. I build my own projects focused on coding and trading/investing, using statistical methods and solid analysis.

Contact Me

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- 📍 Luxembourg
- ✉️ Email
- 🌐 https://alemxral.github.io/cv/

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- GitHub

Education

Bachelor of Finance and Accounting
University of Malaga
Sep. 2019 - Sep. 2022

- University Program in Value Investing, Degree completion one year ahead of schedule
- Program in Valuation Analysis, Investment Analysis Fundamentals, Assets Valuation Methods, Comparable Analysis, DCF (Afi Business School)
- Relevant Coursework: Accounting, Corporate Finance, Statistics, Econometrics, Financial Operations

Master of Science in Financial Economics
University of Luxembourg
Sept. 2023 - Sep. 2024

- Relevant Coursework: Econometrics (Causal Inference), Programming in R, Financial Econometrics (Time Series), Economics Research, Well-being Research, Survey Data Analysis (Stata), Microeconomics (Dynamic Programming)

Bachelor in Data Science
IU International University of Applied Sciences
Sept. 2024 - Sep.2027 (In progress)

- Relevant Coursework: Advanced Calculus and Linear Algebra for Data Science, Mathematical Statistics and Inferential Techniques, Probability Theory with Applications in Stochastic Modeling, Comprehensive Database Management and Optimization Techniques, Advanced Data Mining and Knowledge Discovery Strategies, Foundations of Machine Learning and Algorithmic Design, Predictive Analytics and High-Dimensional Data Visualization
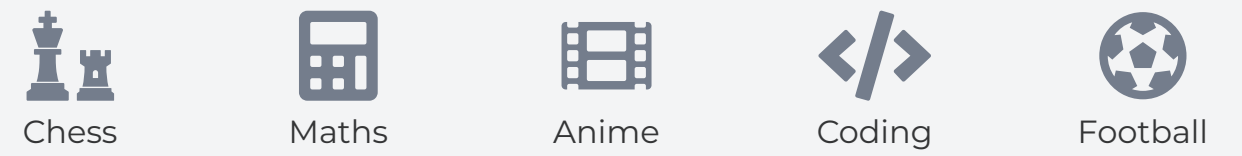
Work Experience

Individual Investor
2020 - Present (4 Years)

- Management of my own investment portfolio in stocks and funds, Valuation analysis with DCF and comparables, portfolio management.

M&A Analyst Internship (Empresax)
June 2021 - August 2021 (3 Months)

- Work in a buy-side mandate in the heating industry, Searching for potential acquisition.

Wealth Management Internship (UBS Europe SE)
October 2021 - March 2022 (6 Months)

- KYC for physical persons, risk profile analysis, AML and management of bank accounts.

Private Debt Fund Accountant (Alter Domus)
April 2022 - May 2023 (1 Year)

- Fund Accounting for Permira Debt Funds, Subordinated Syndicated Loans, Work with financial instruments: Syndicated Loans, ITLs, Swaps, Preferred Equity, Bonds and FX Forwards, Prepare accounting, financial statements, CAS, capital calls, distributions and debt restructuring.

Private Equity Fund Accountant (Intertrust)
April 2023 - October 2023 (7 months)

- Fund Accounting for Private Equity Funds, Prepare accounting, financial statements, CAS, capital calls, distributions, equalizations, NAV calculation.

PERE Fund Accountant (Arendt Investor Services)
February 2024 - Current

- Fund Accounting for Private Equity and Real Estate Funds (GLP), responsible for preparing financial statements, NAV calculation, CAS compliance, and managing capital activities such as calls, distributions. Skilled in waterfall calculations, fee structures, complex investor allocations, and fund performance analysis.

Data Scientist (Github)
Current

- I specialize in data science, applying statistics and applied math to finance. I have hands-on experience using REST APIs, WebSockets, and some web develpment knowledge. Knowledge in VBA and PowerShell for automation, I am currently focused on developing scalable, data-driven projects using Python and JavaScript.

Skills

- VBA
- HTML5
- CSS3 & SCSS
- Python
- R
- JavaScript
- Stata

Interests

- Chess
- Maths
- Anime
- Coding
- Football

Languages

- Spanish (Native)
- English (Fluent)
- French (Medium)
- Japanese (Basic)
- Chinese (Basic)

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PROJECTS

Arbitrage of Binary Outcome Contracts in the Polygon Network

Development of arbitrage models and strategies for binary outcome contracts on the Polygon Network using Polymarekt order books, WebSocket, and API. The system centers on a custom Exchange contract that enables atomic swaps between binary outcome tokens (CTF ERC1155 and ERC20 PToken) and collateral (ERC20).

View Project

Python/Trading/Networks

Algorithmic Trading

Trading strategy for predicting market open direction using Leave-One-Out Cross-Validation and k-Nearest Neighbors with asymptotically optimal weights.

View Project

Python/Data Science

Predicting Market Openings using LOOCV Cross-Validation k-Nearest Neighbors with Asymptotically Optimal Weights

Alejandro Moral Aranda

March 8, 2025

Research Papers

A collection of research papers that I have authored on topics related to economics, finance, and data science.

View Project

Econometrics/Data Science

VBA Automated Reporting Tools

Three advanced tools in Visual Basic for Applications (VBA) designed for large-scale email and report generation. Automate the creation of custom reports using templates configured in Word, Excel, or email formats to meet diverse reporting needs.

View Project

Visual Basic for Applications (VBA)

TareaFlow

A web-based solution with a simple internal PowerShell server that includes a Team Task Tracker, Team Holidays, and Work From Home management tool—all running locally on your localhost with no installation required.

View Project

Powershell/JavaScript

MieMieSocks

A sleek online shop mockup designed for selling stylish socks, developed using Bootstrap and Node.js.

View Project

Node.js/JavaScript

KanjiList.org

A nonprofit website dedicated to learning Japanese, focusing on mastering kanji and their readings effectively.

View Project

Python/WebScraping/Web Dev