



OSCAR ALI MADRID PAREDONES

Financial Quant | Wealth Management | Private Equity

Madrid, Spain | +52 662-120-0970 | oscaralimadrid@gmail.com

LinkedIn: [linkedin.com/in/ali-madrid-683694b3](https://www.linkedin.com/in/ali-madrid-683694b3) | GitHub: github.com/LambdaWarthog | www.lambdamadrid.com

PROFESSIONAL SUMMARY

Mexican quantitative finance professional based in Madrid, Spain, working remotely with Mexican companies. Specializing in systematic trading strategies, quantitative research, risk modeling, and portfolio optimization across Private Equity, Multi-Family Office wealth management, and derivatives markets. Combine rigorous financial and economic research with advanced technical capabilities in Python, SQL, ML/NLP, and AI systems to design end-to-end pipelines from unstructured data through statistical modeling to backtested, market-facing strategies. Additional expertise in corporate finance leadership and cross-functional team management.

CORE COMPETENCIES

Quantitative Analysis & Modeling: DCF valuations, multiples analysis, Monte Carlo simulations, sensitivity modeling, stochastic processes, Black-Scholes pricing, implied volatility calculations, Greeks computation, delta hedging strategies

Derivatives & Risk Management: Options spreads (ratio, ladder, straddles, strangles, straps, strips), portfolio hedging strategies, volatility trading, systematic long/short positioning, risk monitoring frameworks, margin optimization

Technical Stack: Python (pandas, numpy, scipy), SQL, DuckDB, R, JavaScript, Excel VBA, Bloomberg Terminal, Claude Code, LLM architectures, real-time voice systems, scalable cloud infrastructure (AWS, GCP), automated reporting pipelines, Notion, Slack, ClickUp

Financial Engineering: 3-statement financial models, cash flow optimization, debt restructuring, M&A analysis, corporate valuation, private debt structuring, trust mechanisms, multi-generational wealth preservation, portfolio allocation algorithms

Quantitative Research: End-to-end research pipelines, ML/NLP document screening, LLM-powered extraction, statistical and econometric modeling, algorithmic signal specification, systematic backtesting

Corporate Finance & Strategic Management: FP&A, budgeting and forecasting, capital allocation, treasury management, cross-functional team leadership, stakeholder communication, process optimization, strategic initiative execution

EDUCATION

Instituto Tecnológico Autónomo de México (ITAM) | 2018 - 2023

Bachelor of Arts in Financial Management

Academic scholarship recipient for exceptional performance. Specialized coursework: Quantitative Finance, Stochastic Processes, Continuous Finance Applied to Market Dynamics, Corporate Valuations, Derivatives Pricing, Portfolio Theory, Time Series Analysis. Thesis research in progress on systematic trading strategies.

CERTIFICATIONS & SPECIALIZED TRAINING

- **Bloomberg Market Concepts (BMC) Certification**
- **Private Equity and Venture Capital Certificate**
- **Professional Options Trading:** Advanced training in speculator and market maker mandates, directional strategies, volatility trading, Greeks analysis, delta hedging, Black-Scholes Excel implementation, spread strategies. Final examination: 89% (Distinction).

PROFESSIONAL EXPERIENCE

Independent Consultant - Finance & AI Strategy | 2024 - Present

- Architected AI-powered financial systems integrating LLM architectures with real-time data pipelines for automated decision-making across healthcare, software, real estate, and legal sectors
- Developed quantitative models reducing manual analysis workload by 70% through Python-based automation of 3-statement projections, cash runway forecasting, and scenario analysis
- Built production-grade portfolio optimization frameworks utilizing mean-variance analysis, risk parity strategies, and Monte Carlo simulation for multi-asset allocation
- Designed real-time voice processing systems leveraging advanced LLM architectures for scalable, privacy-focused applications with distributed cloud infrastructure
- Developed reproducible quantitative research pipeline: sourcing financial and economic text, applying supervised ML and NLP-based relevance scoring, LLM-assisted extraction of tradable hypotheses, and systematic backtesting under defined universes and cost assumptions
- Led end-to-end corporate finance operations including FP&A, budgeting, capital allocation, and treasury management; coordinated cross-functional teams across legal, tax, and accounting to drive strategic initiatives and operational efficiency

Wisdom Family Office - Senior Wealth Manager | 2023 - 2024

- Developed proprietary Python-based risk analytics platform improving portfolio assessment efficiency by 35% through automated factor decomposition and correlation analysis
- Structured complex financial instruments including private debt arrangements, multi-generational trusts, and tax-optimized wealth transfer mechanisms for \$50M+ portfolios
- Built SQL-based automated reporting infrastructure reducing manual processing time by 70% while maintaining real-time portfolio monitoring and compliance tracking
- Performed rigorous quantitative due diligence on PE/VC opportunities utilizing DCF, comparable transactions, and sensitivity analysis to inform investment committee decisions
- Implemented fraud detection protocols using statistical anomaly detection and pattern recognition, preventing multiple high-value threats

EIM Capital - Private Equity Analyst | 2022

- Executed comprehensive valuations integrating DCF models, trading multiples, and transaction comps with Monte Carlo simulation for risk-adjusted returns analysis
- Built Python-based financial models incorporating stochastic revenue projections, capital structure optimization, and multi-scenario sensitivity analysis
- Analyzed energy derivatives markets through Bloomberg Terminal, producing daily quantitative reports informing hedging strategies and risk positioning
- Supported debt structuring initiatives through covenant modeling, credit analysis, and optimal capital stack design for portfolio companies

TECHNICAL PROFICIENCIES

Programming & Data: Python (NumPy, pandas, SciPy, statsmodels, scikit-learn), SQL (PostgreSQL, MySQL), DuckDB, R (quantmod, PerformanceAnalytics), JavaScript (Node.js), Excel VBA

Financial Platforms: Bloomberg Terminal, FactSet, Capital IQ, Thomson Reuters Eikon, Excel (advanced modeling, solver, data tables)

AI & Cloud Infrastructure: LLM architectures, Claude Code, AWS (EC2, S3, Lambda), GCP, Docker, real-time audio processing, Notion, Slack, ClickUp

Languages: Native Spanish | Fluent English (Business Proficiency)