OSCAR ALI MADRID PAREDONES

Quantitative Finance - Business Intelligence - Private Equity - AI Systems
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EDUCATION

Instituto Tecnológico Autónomo de México (ITAM) Mexico City - 2018 - 2023
B.A. in Financial Management

- **GPA:** 3.5 / 4.0 - Academic Scholarship recipient (merit-based)
- **Selected coursework:** Stochastic Processes, Derivatives Pricing, Continuous-Time Finance, Portfolio Theory, Time Series Econometrics, Fixed Income, Financial Models I & II, Empirical Methods in Finance, Private Equity
- **Certifications:** Bloomberg Market Concepts (BMC) - Private Equity and Venture Capital Certificate - Professional Options Trading — Final Exam 89% (Distinction)
- **Undergraduate thesis (in progress):** "Causal Information Dynamics in Global Financial Markets" — cross-market framework (US, Global, Mexico) extending Alonso & Zoonekynd (2025) with PCMCI+ causal discovery, López de Prado's Financial ML stack (triple-barrier labeling, purged CV, Deflated Sharpe), and an adaptive momentum/mean-reversion trading strategy conditioned on detected information regimes.

PROFESSIONAL EXPERIENCE

Geekbears LLC — *Finance & Business Intelligence Manager* 2026 - Present
Remote, Full-time (California-based employer). Software design and development agency with distributed US-Mexico contractor base. Sole finance and BI function head, reporting directly to the CEO; hired to rebuild the function from scratch during a dual-analyst transition.

- **Lead the end-to-end BI function** as sole owner of the analytics stack: architected Python and SQL (DuckDB) pipelines integrating Zoho CRM, Stripe, ClickUp, BambooHR, and Hubstaff via REST APIs, and restored weekly executive KPI delivery cadence without interruption during a full dual-analyst handoff.
- **Diagnose and resolve revenue and capacity anomalies** by decomposing multi-system data (CRM, time-tracking, pricing calculator) into root causes; translate findings into SOPs adopted across design, development, and operations to close KPI gaps structurally rather than through ad-hoc fixes.
- **Own AR strategy across three revenue streams** (Design, Development, recurring DTP); redesigned collections governance, invoice-ownership protocol, and escalation framework, and present write-off versus recovery decisions directly to the CEO on aged balances.
- **Redesigned the firm-wide bonus structure** from a gross-revenue trigger to an operating-cash-flow-margin model, eliminating a recurring pattern that had required the company to borrow in order to fund payouts; proposal accepted and implemented by the executive team.
- **Manage treasury, debt servicing, and contractor operations** across multiple facility types (term debt, revolving credit, working-capital notes, founder-linked loans); process monthly international contractor payments and coordinate with external CPA for tax compliance and year-end filings.

Independent Consultant — *Quantitative Finance & AI Systems (part-time)* 2024 - Present

- **Designed RAG systems and LLM architectures** for financial decision support — retrieval pipelines over filings, research notes, and internal policy documents; prompt engineering and structured-extraction workflows with explicit validation against rule-based checks.
- **Built 3-statement financial models in Python** with integrated NWC schedules, inflation-adjusted SG&A, and Monte Carlo revenue simulations for multi-subsidiary energy client (2022 actuals through 2027 forecasts).
- **Developed portfolio optimization frameworks** applying mean-variance, risk parity, and factor-based allocation with custom constraints for liquidity, tax efficiency, and concentration limits; real-time VaR and CVaR monitoring.
- **Architected quantitative research pipeline** combining NLP-based relevance scoring, supervised classification, and LLM-assisted extraction of tradable hypotheses; systematic backtesting under defined universes, rebalancing frequencies, and transaction-cost assumptions.

Wisdom Family Office — *Senior Wealth Manager* 2023 - 2024

- **Designed Python-based risk analytics platform** with automated factor decomposition, rolling correlation analysis, PCA, and Brinson-Fachler performance attribution; became firm-wide standard for portfolio review across $50M+ AUM client base.
- **Structured $50M+ portfolios** across private debt arrangements, multi-generational trusts (GRATs, CLATs, QPRTs), and family limited partnerships; coordinated with external legal, tax, and accounting advisors.

- **Built SQL data warehouse** consolidating positions and transactions from multiple custodians; automated monthly client reporting, IPS compliance monitoring, and tax-loss harvesting alerts.
- **Conducted quantitative PE/VC due diligence** using DCF, trading multiples, precedent transactions, and sensitivity analysis; contributed to investment-committee decisions resulting in both approvals and rejections.

EIM Capital — *Private Equity Analyst* 2022

- **Executed comprehensive valuations** integrating DCF, trading multiples, and precedent transactions for sustainable energy infrastructure projects; multi-decade cash flow projections with dynamic WACC and terminal value calculations.
- **Built real options models** using binomial lattice frameworks to value expansion flexibility; Python-based Monte Carlo simulations for stochastic revenue modeling incorporating commodity price volatility and regulatory scenarios.
- **Analyzed energy derivatives markets** on Bloomberg Terminal — electricity and natural gas spot prices, forward curves, volatility surfaces, basis differentials; designed collar, three-way collar, and swaption structures for commodity hedging.
- **Supported debt structuring** through covenant modeling, DSCR and interest coverage analysis, and optimal capital stack design; prepared investor materials and data rooms for fundraising processes.

TECHNICAL SKILLS

Quantitative Finance & Derivatives: DCF, LBO, M&A valuation - Black-Scholes & Greeks (Δ, Γ, Θ, Vega) - Monte Carlo simulation - Real options (binomial lattice) - VaR / CVaR - Brinson-Fachler attribution - Mean-variance & risk parity - Black-Litterman - Factor models, PCA - Options spreads (ratio, ladder, straddles, strangles, straps, strips) - Volatility surfaces - Delta hedging - Energy derivatives (power, nat gas) - Swaptions, collars, three-way collars

Programming, Data & AI: Python (NumPy, pandas, SciPy, statsmodels, scikit-learn, PyTorch) - SQL (PostgreSQL, MySQL) - DuckDB - R (quantmod, PerformanceAnalytics) - JavaScript / Node.js - Excel VBA - LLM architecture, RAG pipelines, prompt engineering - Claude Code - AWS - GCP - Docker - REST API integration

Platforms, Corporate Finance & Languages: Bloomberg Terminal - FactSet - Capital IQ - Thomson Reuters Eikon - PitchBook - Excel (Solver, Power Query, Power Pivot) - Zoho CRM (Deluge) - Stripe - ClickUp - FP&A, forecasting, variance analysis - Capital allocation - Treasury & working capital - Three-statement modeling - Native Spanish - Fluent English