

Matteo Cravietto

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EDUCATION

Master of Science, Financial Engineering, GPA: 3.9

Los Angeles, CA

Expected Dec 2026

University of Southern California, Viterbi School of Engineering

Relevant Courses: Stochastic Processes, Time Series and Volatility Modeling, Portfolio Theory, Financial Analytics, Money and Capital Markets, Corporate Finance

Bachelor of Science, Finance, GPA: 3.7

London, Turin, Berlin

ESCP Business School

2024

Thesis: Analyzed impact of macroeconomic shocks (monetary policy, inflation, growth surprises) on alternative asset prices. Built regime-dependent models showing correlation breakdown during stress periods. Demonstrated systematic relationships between macro drivers and cross-asset behavior.

SELECTED PROFESSIONAL EXPERIENCE

Numerai · Hedge Fund - Competition

Los Angeles, CA

2025–Present

Quantitative Researcher

- Developed and deployed **cross-sectional ML alpha signals** on ~280M rows and 2.4k features, generating **market-neutral 20-day return forecasts**.
- Achieved robust validation performance (**CORR** ≈ 0.029, **Sharpe** ≈ 1.38 across 300+ eras) using **LightGBM** with **purged time-series validation**; deployed model live in Numerai's hedge fund tournament with forward-test **Sharpe** ≈ 0.64 (ongoing).
- Automated the weekly production cycle with **retraining** and governance workflows, integrating signals into Numerai's collective meta-model for capital allocation.

Euronext Securities

Milan, Italy

Custody Intern · Income & Fiscal Services

May–Nov 2023

- Reconciled 1,000+ annual income and corporate events (dividends, coupons, redemptions) across Covered Warrants, Certificates, and ABS, reducing **settlement breaks** and ensuring accurate **cash-flow posting** for institutional clients.
- Strengthened **operational risk controls** by identifying and escalating discrepancies in entitlements and payments, ensuring **compliance** with CSDR and T2S standards.
- Engineered an **Excel/VBA automation** that flagged late participant payments with **100% detection accuracy**, cutting processing time from ~1 hour to **under 1 minute** and safeguarding revenue from **penalty fees**.

Deloitte Consulting

Milan, Italy

Junior Analyst · Financial Services Industry

May–Aug 2022

- Contributed to the design and rollout of Deloitte's first secondary-market tax-credit platform, enabling Italian banks to resell credits across **1+ bn** in transactions.
- Designed system logic that **automated eligibility checks** and **transaction workflows**, eliminating manual reviews and reducing **operational risk**.
- Collaborated with technology, compliance, and banking stakeholders to align platform functionality with **regulatory requirements** and **market practices**, ensuring adoption by **5+ major institutions**.

QUANTITATIVE RESEARCH PROJECTS

Macro Regime Duration Model

GitHub

Python (statsmodels, pandas, NumPy, matplotlib); econometrics, Markov-switching, stochastic processes, yield-curve modeling

- Built a 3-state **Markov-switching model** detecting latent Recession / Growth / Expansion regimes in GDP, inflation, and unemployment.
- Integrated Nelson–Siegel VAR(2) yield-curve forecast and regime-conditioned mean–variance optimizer, achieving **Sharpe 1.08 vs 0.73, -45% drawdown, -28% volatility**.
- Quantified transition persistence (> 0.87 stay prob.), expected durations (~13 mo recession, 8 mo growth, 4 mo expansion); validated **regime alignment with NBER cycles**.

Delta-Neutral Options Market-Making Simulator (in progress)

GitHub

Python, pandas, NumPy (BS closed-form); LightGBM, cvxpy, Streamlit, TAQ/OptionMetrics planned

- Minute-level, **NBBO-aware delta-neutral simulator**: BS theos & Greeks, put–call parity residual, asymmetric spreads with **inventory lean/soft-cap**, explicit fees + **delta-band hedging**; logs P&L, fill-rate, drawdown, AS (bps), with a stale-quote guard.
- Backtesting + OOS runner over day CSVs (1-min Yahoo underlier + synthesized NBBO options); targets **8–15% fill-rate** with costs; ML skew & **cvxpy tuning planned**; synthetic 800-min (~550 fills) validation.

Options Parity Checker

GitHub

Post-Earnings Drift Backtest

GitHub

SKILLS

Finance & Methods — Time-series modeling, portfolio optimization, risk modeling (VaR, Monte Carlo), derivatives pricing

Programming & ML — Python, C++, SQL, Git (pandas, numpy, statsmodels, scikit-learn, LightGBM, cvxpy)