Cameron Hayman

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Statistical Arbitrage Quantitative Developer specializing in advanced statistical methods, machine learning and low-latency infrastructure to systematically identify and capitalize on inefficiencies in global equity markets. Extensive experience designing, implementing and monitoring medium-frequency trading strategies, with a proven record of generating alpha through predictive modeling, cross-sectional analysis, and mean reversion techniques. Adept at translating quantitative research into robust, production-ready trading systems, and collaborating effectively across research, technology, and trading groups to ensure seamless deployment in live markets. *Portfolio: chayman7771.github.io/Cameron-Hayman-Quant-Research-Portfolio/*

EDUCATION:

M.S. in Data Science | Willamette University, Salem, OR | Expected August 2025
B.A. in Mathematics (Applied Computer Science) | Wells College, Aurora, NY | June 2024
B.A. in Accounting (Auditing) | Washington & Jefferson College, Washington, PA | May 2023 | 150+ credit hours
Minors: Computing and Information Studies | Professional Writing

TECHNICAL SKILLS:

Quantitative Strategies & Research: Mean reversion, Pricing Inefficiencies, Kalman filtering, Time Series Modeling
Programming Languages: *Python,* R, SQL (Postgres, DuckDB, KDB+), Powershell; (familiarity with C++, Q, VBA, Quarto)
Machine Learning & Statistical Modeling: Linear/Logistic Regression, Clustering, MLPs, LSTMs, KNN, SVM, Naïve Bayes
Data Engineering & Infrastructure: Docker, Kubernetes, Airflow, AWS S3/EC2, Prometheus, Beekeeper, Full ETL Pipeline
Data Visualization & Dashboards: Matplotlib, ggplot2, Shiny, Tableau, Power BI, Gephi, Grafana, Financial Modeling (Excel)

SYSTEMATIC TRADING & RESEARCH PROJECTS:

Geo-Spatial Latency Optimization System (Python, SQL, KDB+, Q, Prometheus, DuckDB, WebSockets, some C++)

- Designed and deployed containerized, full-stack data platforms that redefine legacy OMS systems by reducing their time-to-fill latency speeds nearly 90%, lowering overhead costs and boosting profits by over 9%
- Developed robust Python/SQL ETL pipelines for ingesting, transforming, and modeling millions of live L2 market book records by leveraging automated monitoring via machine learning to flag changes in market microstructure

Systematic Statistical Arbitrage Trade Desk (Python, R, SQL, PowerShell)

- Engineered live execution, full-stack trading desk deploying back-tested systematic statistical arbitrage strategies
- Developed predictive models for mean reversion and cross-sectional momentum in U.S. & global equities

Alternative Data Alpha Extraction Pipeline (Python, SQL, Fast-API)

- Developed NLP-based text analysis tools to extract predictive signals from earnings calls, 10Q, filings, and news
- Incorporated alternative data into multi-factor models to enhance signals, alpha-capture, and risk management

Stochastic Price Series Forecasting Model Using Geometric Brownian Motion (R)

- Built a hybrid Monte Carlo/GARCH forecasting engine for equity prices with time-series and 10Q-filing data
- Achieved <4% error rate on 60-day forecasts, validating predictive accuracy in live simulations

RELEVANT EXPERIENCE:

CFA Research Challenge, Willamette University, October 2024 – February 2025

- Co-authored an Equity Research Report on Absci for the CFA Institute National Research Challenge
- Built/stress-tested quantitative valuation models (DCF, DuPont, asset turnover) and forecasted earnings via R.

Technology and Accounting Consulting Intern, HPM Tech Services, Ithaca, NY, May – June 2024

- Automated data analytics and custom-built IT tools to improve business intelligence and risk controls

RELEVANT COURSEWORK:

Quant & ML: Probability & Stats | Neural Networks | Econometrics | Discrete Math | Network Analysis | Survival Analysis
Mathematics: Linear Algebra | Calculus II | Stochastic Processes | Optimization | Abstract Algebra | Applied Physics
Finance and Accounting: Financial Modeling | Adv. Financial Accounting | Managerial Finance | Auditing | Business Tax

EXCELLENCE & COMPETITION RESULTS:

1st Place – Elevator Pitch Competition, Wells College
2nd Place – Business Design Competition, Wells College
NCAA Division III Baseball (Washington & Jefferson College, 2019-2023)
– Highest Active Winning % in D3 Baseball during 4-year tenure (.918) | 3x NCAA Regional Appearances
NCAA Division III Baseball (Wells College, 2023-2024)
– 3rd in Nation in Saves (2024) as High-Leverage Reliever (Wells College)