

Harman Singh

+1 (437) 265-8130 | h56singh@uwaterloo.ca | linkedin.com/in/harman2020

EDUCATION

University of Waterloo

Waterloo, ON

Honors Bachelor of Mathematics, Mathematical Finance, Combinatorics & Optimisation Minor

Sep 2024 – May 2029

Lazaridis School of Business & Economics, Wilfrid Laurier University

Waterloo, ON

Honors Bachelor of Business Administration in Finance, Economics Minor

Sep 2024 – May 2029

- Research: HAR-RV realized-vol forecasting (ongoing working paper); VIX term-structure paper replication (extension pack)
- Competitions: Laurier's Int'l Trading Team.; 1st Fidelity Stock Pitch; 2nd Rotman PMC; 1st/119 HRT strategy game

PROFESSIONAL EXPERIENCE

Fixed Income & Macro Central Bank Challenge (NYC)

Mar 2026 – Apr 2026

Citadel

New York, NY

- Selected 1 of 40 from 1,600+ to pitch monetary policy recommendation to former President of Fed Reserve Bank of Chicago
- Built VAR, DSGE, and factor models to analyze inflation, labor, growth, and rates under alternative policy paths over a month
- Translated model outputs into scenario-based relative-value trades across fixed income and equities for Citadel traders

Quantitative Analytics Intern

Jan 2026 – Apr 2026

GreenShield

Toronto, ON

- Built claims, inventory, and market-share analyses in Python, SQL, and Excel to support investment and strategic decisions
- Forecasted income-statement scenarios and variance drivers, translating outputs into EVP-ready decks and recommendations
- Automated validation and linkage of 100M+ data points and 500+ files using Python, VBA, and SQL during migration

Investment Analyst

Jan 2025 – Aug 2025

Voxtur Capital (Family office of Fort Capital)

Toronto, ON

- Evaluated \$0.5–\$3B fund co-invests and \$10–\$100M EV LMM deals with Fort Capital IB; modeled bull/base/bear cases
- Authored 10+ IC memos assessing thesis fit, key risks, and return drivers to guide go/no-go decisions for capital allocation
- Modeled LP/GP economics, fees, preferred return, and IRR outcomes under refinance timing and AUM growth
- Assessed a 6-asset Sunbelt portfolio by stress-testing rent deltas, value-add plans, and sponsor hurdles per fund criteria

Private Equity Analyst

Sep 2024 – Dec 2024

AB1 Capital

Birmingham, United Kingdom

- Led diligence for 2 live platform acquisitions, distilled 25+ CIMs, and drafted investment briefs for client discussions
- Researched 7+ industrial niches in B2B services to implement key findings in DCFs and in refining comparable valuations

EXTRACURRICULAR EXPERIENCE

Quant Lead | Quantitative Researcher

May 2025 – Present

Wat Street (UW Quant Finance Design Team)

Waterloo, ON

- Extended the HAR-RV volatility model with regime/asymmetry features, co-authoring a paper for a peer-reviewed journal
- Analyzed 800M+ rows of 1-min market data in Python and automated a professional-grade visualization and reporting suite
- Validated forecasts with rolling out-of-sample benchmarking and regime checks, iterating from practitioner review

Quantitative Researcher

Jan 2025 – Present

Laurier Trading Group

Waterloo, ON

- Replicated VIX term-structure forecasting with constant-maturity futures; submitting research to Harbourfront Technologies
- Engineered VIX term-structure features to predict next-day CMF returns using LSTM, XGBoost, and MLP models
- Built volatility-driven trading and constrained mean-variance strategies, arbitraging VIX CMFs vs. ETFs

Selected Markets & Research Experience

- Laurier Trading Group (W25–Present): Pitched and executed macro-based derivative trades and stress-tested portfolio risks
- UW Stocks Club (F24–S25): Built equity-vol anomaly screen to flag VaR outliers and validated performance vs benchmarks
- LBER (F24–S25): Led South Asia emerging-markets macro report and pitched investable themes at Laurier's outlook panel

ADDITIONAL EXPERIENCE

Technical Skills: Bloomberg Terminal, Advanced Excel/VBA, Python, SQL, Pitchbook, Power BI, EDGAR, IBKR, R, C++

Projects: Graphic Design Freelancer (40+ clients), DataFlow (market data platform, 50k+ tickers), Polymarket Arbitrage Engine

Interests: Private Pilot License (trainee), Skydiving (certified), Marathons, Drone Videography, Mountaineering (Alps, Rockies)