Mirza Aydemir

+1 (514) 549-8815 | aydemirmirza@gmail.com | www.linkedin.com/in/aydemirmirza

EDUCATION

Schulich School of Business Toronto, ON | *Expected 07/2026*

Master of Finance, Financial Risk Management Stream

- **cGPA:** 7.75/9.00 (A-/A), **Awards:** Dean's Entrance Award ($12,000)
- **Related Coursework:** Financial Management and Valuation (A), Fixed Income Securities (A-), Financial Accounting (A-), Financial Derivatives (A), Machine Learning in Finance (A+), Data Science in Finance (A)
- **Applied Coursework:** Applied machine learning (neural networks, regression, logit/probit models), quantitative risk modelling, derivatives pricing, and financial data analysis in Python through graduate machine learning and data science coursework.

York University Toronto, ON | *09/2021 – 05/2025*

Bachelor of Arts, Spec. Hons. Financial and Business Economics

- **Major GPA:** 8.28/9.00 (A/A+), **cGPA:** 7.54/9.00 (B+/A)
- **Awards:** Sessional Academic Achievement List (FW22 and FW23), Member of Dean's Honour Roll (FW24)

INDUSTRY CERTIFICATIONS

- Financial Risk Manager (FRM) Part 1 Candidate
- Bloomberg Market Concepts
- Corporate Finance Institute (CFI) - Financial Modeling and Valuations Analyst Candidate (FMVA)

PROFESSIONAL EXPERIENCE

FGF Brands – *Financial Analyst Intern – FP&A* Toronto, ON | *09/2023 – 12/2023*

- Validated financial model outputs by investigating a 60% manufacturing plant variance, reconciling actuals against expected results and tracing root-cause discrepancies through operational and cost driver data.
- Developed Excel-based forecasting models incorporating historical performance trends, operating assumptions, and variance analysis to evaluate business drivers and communicate risk-informed insights to cross-functional stakeholders.

RISC – *Risk Analyst Intern* Toronto, ON | *07/2023 – 10/2023*

- Developed a Python-based econometric model across a 13-industry Canadian dataset, applying OLS, 2SLS, and GMM regressions to estimate relationships between AI adoption and employment outcomes.
- Validated model outputs against economic benchmarks using correlation analysis and sector-level visualizations in Python to assess statistical integrity and reasonableness of findings.
- Conducted economic and industry research using Statistics Canada, OECD, and Moody's ESG datasets to identify sector-level employment trends and synthesize data-driven policy recommendations.

EXTRACURRICULAR ACTIVITIES

CFA Research Challenge 2026 – *Schulich Representative* Toronto, ON | *12/2025 – 02/2026*

- Constructed a bottom-up financial model in Excel and Bloomberg as a Top 4 national finalist, applying DCF, relative valuation, and sensitivity analysis to support a SELL recommendation on Lightspeed Commerce (LSPD).

CFA Ethics Challenge 2026 – *Schulich Representative* Toronto, ON | *12/2025 – 02/2026*

- Achieved 1st place overall in the CFA Ethics Challenge by analyzing regulatory compliance issues including conduct risk, disclosure obligations, and fiduciary duty; developed recommendations aligned with CFA Institute Standards of Professional Conduct.

PROJECTS

Heston Stochastic Volatility Calibration: Deep Learning Pipeline (MATH 6912)

- Designed a four-component deep learning pipeline in Python and PyTorch for Heston model calibration, generating ~400K synthetic training samples via Latin Hypercube Sampling and Euler-Maruyama Monte Carlo simulation.
- Built a Price Approximator Network (PAN) and Calibration Correction Network (CCN) to enhance calibration accuracy across 3M, 6M, and 12M maturities, evaluating model performance using RMSE and MAE metrics.

Technical Skills: Python (Pandas, NumPy, PyTorch, regression, machine learning), Excel, financial modeling, statistical modeling, Monte Carlo simulation, econometric modeling, data visualization, Power BI, Bloomberg Terminal.