ETHAN W. ROBERTSON

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EDUCATION

William & Mary — **Williamsburg, Virginia**
B.S. in Applied Mathematics, Second Major in Economics — *May 2027*

- **GPA:** 3.86

Selected coursework: Cross-Sectional Econometrics, Mathematics of Financial Economics, Neural Networks & Machine Learning, Mathematical Probability & Statistics, Graph Theory, Honors Analysis, Operations Research

Institute for Field Education (IFE) — **Strasbourg, France**
Intensive French-language classes on culture, history, and society during study abroad — *May 2023 – May 2024*

- **GPA:** 4.0

SKILLS

- Technical skills: R (Rpostgres, quantmod, tidyverse, zoo, plm), Stata, Python (pandas, NumPy), SQL, Git, Excel
- Proficient in Excel-based Financial Modeling and Corporate Valuation techniques
- French: fully fluent with certified full professional capacity (DELF B2)

RELEVANT EXPERIENCE

Research Assistant — **Williamsburg, Virginia**
AidData at William & Mary: China Development Finance Program — *January 2025 – Present*

- Conduct structured data extraction and validation from financial documents, integrating West African government budgets and Chinese bilateral loan agreements into R-based datasets.
- Collaborate across multilingual research teams to ensure methodological consistency and transparency in financial dataset construction.

Capstone Research Project — **Strasbourg, France**
The Constitutive Elements of an Economy: Chinese Land Finance and the Risks it Poses — *March – June 2024*

- Commissioned by the CEO of wealth management firm ACE Finance et Conseil to serve as the primary French source for guiding investment decisions internally and to external clients
- Developed proprietary financial models and econometric formulas to accomplish research goals
- Quantitatively analyzed and verified data sourced from the Chinese NBS, the Office of the USTR, the IMF, the French Ministry of the Economy, and others

Intern: Financial Analyst — **Strasbourg, France**
ACE Finance et Conseil — *February – June 2024*

- Created focused equity reports in both French and English to guide clients' investment decisions
- Delivered daily bilingual market briefings via PowerPoint on global financial developments
- Developed and managed over 15 budgetary and investment spreadsheets for the firm on Microsoft Excel

PROJECTS

Macro-Factor Sensitivity Analysis — Project Report

- Developed and implemented Fama-MacBeth-style regressions on 316 U.S. financial firms (2001–2025) to quantify exposure to inflation, credit spreads, and GDP growth; produced resilience scores using R (tidyverse, zoo, plm)

Algorithmic Trading Strategy: Ethereum Market — Project Report

- Designed and optimized a Donchian Channel breakout strategy on hourly and minute-level ETHUSDT data using Python (pandas, numpy); benchmarked against passive holding, with volatility adjustments

Monte Carlo Simulation: UEFA Champions League — Project Report

- Forecasted 2024/25 UCL knockout stage outcomes using Monte Carlo simulations based on Elo ratings; integrated predictive analytics with scenario-based optimization

LEADERSHIP AND SERVICE EXPERIENCE

Presenter, William & Mary FED Challenge Team — May *2025 – Present*

- Researched and presented monetary policy analysis to Federal Reserve economists in inter-collegiate competition.

Winner, CGI Annual Consulting Challenge (Best Overall) — *March 2025*

- Led a team to design PathAdvisor, an AI-driven academic advising tool, winning first place out of 40 teams

Co-President, Computational and Applied Mathematics & Statistics Club, William & Mary — *August 2024 – Present*

- Develop PowerPoints and mathematics-based activities for biweekly meetings