

Aspen Johnson

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Education

Mercer University , BA in Mathematics & Finance	June 2022 – May 2027
<ul style="list-style-type: none">• Minor: Physics• Coursework (Taken/Will Be Completed Prior To Internship): Market Analysis & Portfolio Management., Int' Finance, Linear Algebra, Differential Equations, Calculus I-III	

Professional Experience

Financial Analyst , Zinzino USA – West Palm Beach, Florida	May 2025 - August 2025
<ul style="list-style-type: none">• Reduced time to process charge backs by 87%, digitizing workflows and simplifying documentation.• Refined the charge back process within a few weeks of my arrival, and curated a reference guide to aid future on boarding employees.• Collaborated and built relationships with the Finance and Customer Support teams to resolve complex issues and streamline operations.• Quickly learned and utilized platforms like Slack, Exigo, and Authorize.net to improve efficiency during onboarding.	

Undergraduate Research

Projectile Motion Analysis – Math Department w/ Hope McIlwain	Est. Fall 2026 Semester
<ul style="list-style-type: none">• Modeling basketball trajectories as parabolas based on an angle, release point, and basket constraints.• Deriving equations to examine vertex height and shot range from various angles.	

Econometrics Portfolio Optimization , Econ Department W/ Szabolcs Blaszek	Jan 2025 - Present
<ul style="list-style-type: none">• Co-authored and empirically tested the Hessian-filter scaled Beta-t-EGARCH volatility model, improving traditional score driven filters with newton-Type gradient scaling.• Analyzed log return of high in-demand and volatile assets such as Bitcoin, S&P500 (IVV), Gold(IAU), U.S REITS, and the CHF/JPY for the period 2010-2025.• Proved model robustness through major volatility shock events (COVID-19, 2022 Ukraine Invasion, 2023 Gaza conflict, and a 2025 Presidential transition).	

Extracurricular Activities

<ul style="list-style-type: none">• Division 1 Women's Basketball Player (2022-2025)• Member of NSBE, SWE, and Codecademy's Women In Tech organization.• Completed Amazon Campus Prep Series Program (Summer 2025)• Current Interests/ Studying: Collatz Conjecture, Thermodynamics & Heat Transfer In F1 Racing, AWS Quantum Cloud Computing For Modelling Simulations, and Classical Mechanics	
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Manuscripts In Progress

A Hessian-filter scaled Beta-t-EGARCH volatility model	August 2025
Szabolcs Blaszek, Aspen Johnson , Adam Kobor	

Technologies & Skills

Languages: R, Java, Python, GAUSS, Git & GitHub, AWS Cloud

Developer Tools + Libraries (Learning): Data Cleaning, Collaborative Project Management, Clear Written Technical Documentation, and Quantitative Research