

Noah Lowery

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Education

California State University San Marcos, San Marcos, CA

Bachelor of Science in Mathematics

Relevant Coursework: Financial Mathematics, Machine Learning in Finance, Optimization, Stochastic Processes, Data Structures and Algorithms

Professional Experience

Peer Leader, Learning and Tutoring Services

CSU San Marcos, Apr 2023 – May 2025

- Facilitated weekly study sessions for 30+ students in calculus and linear algebra.
- Increased facility utilization through engagement-focused workshops.
- Acted as liaison between faculty and students, guiding peer tutors and sharing feedback.

Research and Projects

Brownian Motion First-Exit Time Modeling

Senior Seminar Project

- Modeled time-to-exit and profit distributions of simulated stock paths using Brownian motion.
- Applied NumPy and pandas in Python to analyze outcomes and visualize results.

Radical Cubic Extensions Research

CSU San Marcos

- Conducted research on classifying cubic field extensions of polynomial rings.
- Presented findings to audiences ranging from university leadership to math faculty and conference peers.

Skills

- **Technical:** Excel, Python, SageMath, LaTeX, R
- **Quantitative:** Financial modeling, stochastic processes, risk analysis, time series simulation
- **Communication:** Academic presentations, tutoring, translating complex topics for mixed audiences

Additional

- Preparing for SOA FM Exam (Summer 2025); pursuing Exam P next
- Strong interest in finance and actuarial modeling roles