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 Awards

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.

Wolfram Award – Technical Integration in Mathematics   *CSU San Marcos*

- Recognized for integrating Python and SageMath into mathematical coursework, research, and projectss.
- Awarded for excellence in applying computational tools to abstract math concepts and communicating results effectively across technical and non-technical audiences.

Skills

- **Technical:** Excel, Python, SageMath, LaTeX, R
- **Quantitative:** Financial modeling, stochastic processes, risk analysis, time series simulation, Preparing for SOA FM Exam (Summer 2025)
- **Communication:** Academic presentations, tutoring, translating complex topics for mixed audiences