Ryan Gomberg

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Actuarial Exams

Exam P (Probability) *Passed November 2025*
Exam FM (Financial Mathematics) *Passed February 2026*

Technical Skills

R, MATLAB, Python, Excel, LaTeX, GitHub, PowerBI, Power Query

Education

University of California, Irvine *Sept 2021 - Jun 2025*
BS in Applied and Computational Mathematics *(Obtained June 2025)*

- GPA: 3.54/4.0
- **Coursework:** Probability, Fixed Income, Statistics for Data Science, Mathematics of Finance, Mathematical Modeling, Mathematical Machine Learning, Technical Writing, Numerical Analysis

Experience

Mentor *Irvine, CA*
Math CEO *January 2024 - April 2024*

- Engaged with high school students in low-income, diverse areas in inquiry-based activities with a strong emphasis on mathematics and other topics in STEM
- Collaborated with other mentors in curating new activities and maintaining student involvement
- Led group activities and encouraged conversation through icebreaker questions, active listening, and by introducing new ideas
- Learned how to partition challenging concepts into smaller, digestible problems

Self-employed *San Diego, CA*
Private Tutoring *Sept 2020 - June 2021*

- Provided one-on-one instruction to middle and high school students to prepare for academic tests and improve academic performance in mathematics
- Prepared lessons and supplements to monitor and assess student progress
- Developed study strategies and time management skills depending on each student's needs and learning styles
- Helped three students achieve their academic goal

Projects and Personal Initiatives

Pricing and Severity Modeling Project (Presentation) *PDF File*

- Analyzed claims data using GLMs in R to model pricing and severity trends for auto-insurance portfolios.
- Developed interactive Excel dashboards to visualize relationships between prospective pricing models and historical claim data.
- Synthesized insights into a PowerPoint presentation to communicate data-driven recommendations for pricing premiums to policyholders.

Quantitative Analysis Project (Python) *PDF File*

- Given recent OHLCV price history data in the S&P 500, identified equity factors and reasonable Key Performance Indicators (KPIs) while providing reasons for their individual strengths and weaknesses.
- Employed time series analysis to test portfolio performance under a momentum factor.