

Ryan Gomberg

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Actuarial Exams

Exam P (Probability)

Exam FM (Financial Mathematics)

Passed November 2025

Sitting February 2026

Technical Skills

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

Education

University of California, Irvine

BS in Applied and Computational Mathematics

Sept 2021 - Jun 2025

(Obtained June 2025)

- GPA: 3.54/4.0

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

Experience

Mentor

Math CEO

Irvine, CA

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

Private Tutoring

San Diego, CA

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 (R)

[PDF File ↗](#)

- Simulated a dataset in R to model policyholder characteristics and used Exploratory Data Analysis to verify and explore trends.
- Implemented GLMs and regression models to approximate claim frequency and average claim severity. Ran diagnostics for statistical significance and goodness of fit for each model.
- Interpreted both model archetypes individually as well as their combined effect on total losses, both conceptually and quantitatively.

Quantitative Analysis Project (Python)

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- 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.