

# Ryan Gomberg

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🌐 <https://ryangomberg.github.io/ryangomberg/>    in Ryan Gomberg    🐙 ryangomberg

## Actuarial Exams

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**Exam P (Probability)**

*Passed November 2025*

**Exam FM (Financial Mathematics)**

*Sitting February 2026*

## Technical Skills

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

## Education

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**University of California, Irvine**

*Sept 2021 - Jun 2025*

*BS in Applied and Computational Mathematics*

*(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

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**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

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**Pricing and Severity Modeling Project (R)**

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- 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)**

[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.