Ryan Gomberg

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🔗 https://ryangomberg.github.io/ryangomberg/ in Ryan Gomberg ⬡ ryangomberg

Summary

Motivated Applied and Computational Mathematics major with a strong interest in data science/machine learning and finance. Experience with working and handling projects in a personal and team setting, as well as managing timelines and task coordination. Keen to leverage academic experience and contribute to successful projects in a professional environment.

Technical Skills

R, MATLAB, Python, Excel, LaTeX

Education

University of California, Irvine *September 2021 - Present*
BS in Applied and Computational Mathematics *(Expected June 2025)*

- GPA: 3.49/4.0
- **Coursework:** Mathematical Machine Learning, Statistics for Data Science, Numerical Analysis, Mathematics of Finance, Fixed Income, Probability, Technical Writing

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
- Demonstrated various problem-solving methods to allow better understanding of a concept
- Helped three students achieve their academic goal

Projects and Personal Initiatives

Machine Learning on Adult Census Income Dataset *github repository* ↗

- Developed a report, following PEP8 style guidelines, on machine learning algorithms designed to predict and identify trends within a U.S. census dataset
- Tools Used: Python, Excel

Notes for Mathematical Machine Learning and Math of Finance *github repository* ↗

- Compiled and formatted 50-page notes for two classes with chapters using LaTeX, designed with self-curated diagrams and plots
- Tools Used: LaTeX, PowerPoint, MATLAB