

LEO VILLANI

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EDUCATION

University of California, Berkeley

BA Pure Mathematics and Data Science *GPA: 3.909*

Berkeley, CA

Aug 2021 - May 2025

Multivariable Calculus - A, Linear Algebra - A+, Discrete Mathematics - A+, Numerical Analysis - A+,
Upper-Division Linear Algebra - A+ , Abstract Algebra - A, Number Theory - In progress, Mathematical
methods for optimization - In progress, Real Analysis - In progress

Structure and Interpretation of Computer Programs (Projects):

Hog - Simulator and multiple strategies for the dice game Hog.

Cats - Measuring typing speed and implementing autocorrect.

Ants - Tower defense game called Ants Vs. SomeBees.

Scheme - Interpreter for a subset of the Scheme language.

SKILLS

Programming Languages: Python, MATLAB, SQL, HTML, CSS, MS Suite, Maya (3D)

HIGHLIGHTED EXPERIENCE

IBM

Research Intern

New York, NY

June 2020 - August 2020

- Implemented a virus simulator and conducted data analysis to model potential COVID-19 outcomes and examine double-peaking
- Created a presentation visualizing data and presented to a research team

UC Berkeley, Department of Machine Learning

Intern

Berkeley, CA

June 2019 - July 2019

- Created a Web crawler to check information from tweet IDs
- Performed data analysis on Twitter data to find half-life of tweets depending on certain variables

Compatibl

Intern

Kyiv, Ukraine and Warsaw, Poland

June 2019 - July 2019

- Performed data analysis of financial time series

ADDITIONAL EXPERIENCE

Wyzant

Tutor

Berkeley, CA

April 2022 - Present

- Preparing students for SAT Math, ACT Math, and AP/college level math classes
- Achieved consistent 5-star rating by building relationships with students and adapting content to meet their learning style

UC Berkeley, Department of Mathematics

Peer Advisor

Berkeley, CA

September 2022 - Present

- Holding office hours, organizing events, and giving academic guidance to freshmen in the math major

AWARDS

Bronze Medal

MathCON

April 2019