

Lucas Salim

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Education

- **University of California, Berkeley** **Berkeley, CA**
College of Letters and Science, B.A. Applied Mathematics 2021 - 2023 (expected)
 - Cluster in Data Science.
 - Honors Graduation. GPA: 3.4
 - **Pasadena City College** **Pasadena, CA**
Associate in Science-Transfer: Mathematics 2019 - 2021
 - Associate in Science-Transfer: Physics.
 - Associate in Arts: Natural Sciences.
 - Dean's List: Fall 2019, Spring 2020, Fall 2020. GPA: 3.7
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Experience - Work & Leadership

- **University of California, Berkeley** **Berkeley, CA**
Grader for Real Analysis 2022 – Present
 - Assisted college students on their learning experience; taught important concepts from Real Analysis, and encouraged students through positive grading feedback.
 - **Caltech Youth** **Pasadena, CA**
Volunteer Science and Math Tutor - Rise Program 2019
 - Tutored youth in Math and Science; assessed learning styles of each student and adjusted tutoring style based on results; Achieved grade improvement in 100% of all students tutored over a six month period.
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Experience - Research

- **Analytic Number Theory on Riemann Hypothesis** **Berkeley, CA**
Research on Mathematics 2022
 - Investigated the distribution of zeros from the Riemann zeta function; contributed to Dr. Jesse Elliot's "Analytic Number Theory and The Iterated Logarithm" book with unique mathematical visualizations.
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Experience - Projects

- **Breast Cancer Cohort - Data Science** 2022
Course: Machine Learning
 - Designed a Random Forest model that predicts chances of high vs low survival period for patients with breast cancer with an accuracy of 82%; discovered individual genes crucial to such biological system.
 - **Personal Version Control System - Computer Science** 2022
Course: Data Structures
 - Built a version control system from scratch that simulates all major qualities of Git (init, add, commit, remove, log, branch, merge, etc).
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Skills

Software: C, C++, Java, JavaScript, HTML, Python, SQL, \LaTeX , Mathematica, MATLAB, R.
Languages: Fluent in Portuguese.

Honors & Awards

Honors in Mathematics Awards - Pasadena City College
Bronze Medal at OBMEP (Brazilian Mathematics Olympiad for Public Schools)