

Elijah Valverde

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EDUCATION

Bachelor of Arts, Mathematics San Francisco State University <ul style="list-style-type: none">GPA: 4.0	Expected 2027
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RESEARCH EXPERIENCE

Researcher San Francisco State University <ul style="list-style-type: none">Algebraic geometry, combinatoricsResearch under Emily Clader (Ph.D.) on the enumeration of boundary stratum in the moduli space of genus-one curves.	Spring 2025
Researcher Los Alamos National Laboratory SULI <ul style="list-style-type: none">Gaussian process applications, aerosol science, climate modelingResearch under Allison Aiken (Ph.D.) and Ryan Farley (Ph.D.) exploring the application of Gaussian processes to identify temporal cycles in complex aerosol datasets	Summer 2024

AWARDS AND HONORS

Science Undergraduate Laboratory Internships (SULI) Scholar <ul style="list-style-type: none">Issued by Los Alamos National Laboratory (LANL), United States Department of Energy	2024
Best Poster Los Alamos National Laboratory Student Research Symposium <ul style="list-style-type: none">Issued by Los Alamos National Laboratory (LANL)Awarded the best poster presentation in mathematics among students at LANL	2024
Louis Stokes Alliance for Minority Participation Scholar <ul style="list-style-type: none">Issued by California State University (CSU)-National Science Foundation (NSF)	2024
Halmos Scholarship <ul style="list-style-type: none">Issued by San Francisco State University Mathematics DepartmentAwarded to accomplished graduate or undergraduate students who demonstrate a promise for furthering the knowledge, application, or teaching of mathematics during their stay at SFSU and beyond	2024
Pamela Fong Scholarship <ul style="list-style-type: none">Issued by San Francisco State University Mathematics Department	2024
C.Y Chow Memorial Scholarship <ul style="list-style-type: none">Issued by San Francisco State University College of Science and Engineering	2024
San Francisco State University General Scholarship <ul style="list-style-type: none">Issued by San Francisco State University	2023
Vincent Constantino Scholarship <ul style="list-style-type: none">Issued by San Francisco State University	2023
Deans List (Fall, Spring) <ul style="list-style-type: none">Issued by San Francisco State University	2023
Deans List (Fall, Spring) <ul style="list-style-type: none">Issued by San Francisco State University	2022

PRESENTATIONS AND CONFERENCE ENGAGEMENT

College of Science and Engineering Student Project Showcase

May 2025

- Planned poster presentation on current work with Emily Clader (Ph.D.)

Joint Mathematics Meeting (JMM)

January 2025

- Poster presentation on applications of Gaussian processes to high-time resolution aerosol datasets

Northern and Central California Section of SIAM Annual Meeting 2024

October 2024

- Poster presentation on applications of Gaussian processes to high-time resolution aerosol datasets
- Honorable mention for best undergraduate poster

Los Alamos National Laboratory Student Research Symposium

July 2024

- Presented a poster on summer research related to applying Gaussian processes on high-time resolution aerosol datasets
- Won best poster among students in mathematics category

COMMUNITY INVOLVEMENT

Vice President | Society for Industrial and Applied Mathematics (SIAM) 2024 - Current

- Serving as Vice President of San Francisco State SIAM Student Chapter. In collaboration with other officers, I coordinated research symposiums, career development events, and hosted talks from applied mathematicians in Industry and Academia. Recipient of the SIAM certificate of Recognition

Mathematics Tutor and Embedded Tutor | San Francisco State University 2022 - Current

- Since my freshman year at San Francisco State, I have offered tutoring services in a wide array of topics including Calculus, Linear Algebra, Analysis, Abstract Algebra, and more.
- In Fall 2023 I worked on a program that placed tutors in classrooms with high rates of D's, F's and withdraws to increase student success.

Teaching Assistant | Mathematics Department

2024 - Current

- Working as a grader for courses on real analysis and abstract algebra.