

# DIEGO AVALOS

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## Education

- **California State Polytechnic University, Pomona**

June 2018

M.S. in Mathematics (Applied Emphasis)

GPA: 3.94

\* Graduate Coursework: Mathematical Modeling; Mathematical Programming; Applied Linear Regression.

- **University of California, Berkeley**

May 2016

B.A. in Mathematics (Pure Emphasis)

GPA: 3.70

\* Undergraduate Coursework: Numerical Analysis; Abstract Algebra; Number Theory; Discrete Mathematics.

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## Employment

- **Graduate Teaching Associate, Cal Poly Pomona**

Winter 2018

\* Teach an algebra class as the main instructor. Homework is assigned on *Connect Math*.

- **Academic Excellence Workshop Facilitator, Cal Poly Pomona**

Fall 2017

\* Help students from the *SEES* program succeed in integral calculus.

\* Create calculus worksheets weekly.

- **Math Tutor, C2 Education**

March 2017 - September 2017

\* Created unique lessons for high school students preparing for the ACT/SAT.

\* Suggested curriculum for advanced math students.

- **Workshop Leader, U.C. Berkeley**

Summer 2016

\* Helped freshmen succeed in their first math class at Berkeley during *Summer Bridge*.

- **Math and Physics Tutor, Saddleback College**

Summer 2012 - Spring 2014

\* Tutored all math and physics classes offered as a general tutor and supplemental instructor.

\* Helped engineering students succeed in the accelerated math program *OC Bridge 2 Engineering*.

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## Projects

- **Personal Website**

\* Created my personal website DiegoAvalos.net using HTML and CSS hosted on GitHub.

- **Educational Matlab Programs**

\* Created a program that randomly generates solvable linear systems of equations of 2 and 3 unknowns.

\* Created a program that randomly generates binomial probability questions.

\* The programs allow students to obtain access to virtually endless math exercises.

\* Instructors can use the programs to generate math exercises to assign students.

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## Activities, Memberships, and Awards

- American Mathematical Society (AMS) speaker at U.C. Riverside

*Calculating Exponentials of Real Skew-Symmetric Matrices in Terms of Their Eigenvalues*

November 2017

- Member of Society for Industrial and Applied Mathematics (SIAM)

January 2017 - Present

- Science Council Representative of the SIAM Chapter at Cal Poly Pomona

Fall 2017 - Spring 2018

- SIAM Integration Bee Winner at Cal Poly Pomona

Winter 2017

- Top 8 winner at the Academic Triathlon at Saddleback College

2012 and 2013

- The National Science Foundation S-STEM Scholarship

May 2013

- The Dr. Steve Sworder Memorial Mathematics Scholarship

May 2013

- Phi Theta Kappa Honor Society Member

2012 - Present

- Volunteer Math Tutor at Saddleback College

Spring 2012

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## Languages and Technologies

- Matlab; R; Python; C++; HTML; Excel;  $\text{\LaTeX}$

- R Markdown; Jupyter; Visual Studio; GitHub