

# 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; L<sup>A</sup>T<sub>E</sub>X
- R Markdown; Jupyter; Visual Studio; GitHub