## D. Zack Garza

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EDUCATION	<ul><li>University of Georgia, Athens,GA, USA</li><li>Ph.D. in Mathematics (Expected)</li></ul>	Aug 2019 – Present	
	University of California, San Diego, La Jolla, CA, USA	Aug 2015 – Jun 2018	
	<ul> <li>B.S. Mathematics</li> <li>Minor in Computer Science</li> <li>Major GPA: 3.723</li> </ul>	11ag 2010 - Juli 2010	
	University of California, Berkeley, Berkeley, CA, USA	Sep 2014 – Jun 2015	
	<ul> <li>Concurrent Enrollment</li> <li>CS 70: Discrete Mathematics and Probability Theory</li> <li>EE 20: Structure and Interpretation of Systems and Signals</li> <li>Cumulative GPA: 3.33</li> </ul>		
	Sierra College, Rocklin, California, USA  ■ A.A. Mathematics  ■ A.S. Physics  ■ A.A. Fine Arts	Sep 2011 – Jun 2014	
TEACHING	Private Tutoring	2014 – Present	
	Calculus, Linear Algebra, Differential Equations, Real Analysis, Abstract Algebra, Complex Analysis		
WORK EXPERIENCE	Retail Scientifics, San Diego, CA	Jan 2016 – Aug 2019	
	<ul> <li>Data Scientist &amp; Full Stack Engineer</li> <li>API development for real-time predictive modeling and machine learning.</li> </ul>		
	Google Summer of Code, Berkeley, CA	Apr 2015 – Aug 2015	
	<ul><li>Student Developer</li><li>Contributed Haskell code to the open source project Hackage.</li></ul>		
	Shutterfly, Santa Clara, CA	Jun 2014 – Jan 2015	
	<ul> <li>Software Engineer, Intern/Contractor</li> <li>Server-side OpenGL engine development for rendering 3D models.</li> </ul>		
AWARDS &	■ Diana C. Miles Scholarship	2017 – 2018	
SCHOLARSHIPS	■ Errett Bishop Scholarship	2016 – 2017	
	Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship  Proved Hanar (Mair Callege LIC San Diago)	2016 – 2017 2015 – 2016	
	<ul> <li>Provost Honors (Muir College, UC San Diego)</li> </ul>	2015 – 2010	
CAMPUS ACTIVITIES	<b>Society of Undergraduate Mathematics Students</b> , University of California, San <ul><li>President</li></ul>	Diego 2016 – 2018	
	Mathematics Club, Sierra College ■ Officer	2013 – 2014	
TECHNICAL SKILLS	Android, C, C++, ECMAScript, Bash, Git, HTML5/CSS3, Haskell, Java, Javascript, LATEX, MATLAB, Node, NumPy, OpenGL, PHP, Python, R, SAGE, SQL, Unix/Linux		
WORKSHOPS AND TALKS GIVEN	<ul> <li>Mathematics Subject GRE Workshop</li> <li>Homotopy and the Hopf Fibration</li> <li>Topological Fixed Point Theorems</li> </ul>	Mar 2019 Jun 2018 Mar 2018	
	<ul> <li>Homology and The Snake Lemma</li> <li>Algebraic Geometry: A Historical Primer</li> </ul>	Nov 2017	

Oct 2017

■ Algebraic Geometry: A Historical Primer

	<ul> <li>Introduction to Functional Programming</li> <li>Intermediate LaTeX</li> <li>Introduction to LaTeX</li> <li>Intermediate LaTeX</li> <li>Organizing Research Projects with LaTeX</li> <li>Category Theory as an Organizational Tool</li> </ul>	Oct 2017 May 2017 Apr 2017 Feb 2017 Jan 2017 Jan 2017
	<ul> <li>Introduction to LaTeX</li> <li>Introduction to Category Theory, Part 2</li> <li>Introduction to Category Theory, Part 1</li> <li>Haskell for Mathematicians</li> <li>Discrete Mathematics: An Overview of Graphs and Trees</li> </ul>	Nov 2016 Nov 2016 Oct 2016 Oct 2016 May 2014
COURSEWORK	<ul> <li>Graduate Coursework</li> <li>Algebraic Topology</li> <li>Topics in Real Analysis: Quantum Mechanics (Graduate)</li> <li>Functional Analysis</li> <li>Algebra</li> </ul>	Fall 2017 – Spring 2018 Spring 2017 Fall 2016 – Winter 2017 Fall 2017
	<ul> <li>Undergraduate Coursework</li> <li>Cryptography</li> <li>Numerical Methods and Physical Modeling</li> <li>Image Processing</li> </ul>	Winter 2018 Fall 2017 Fall 2017
	<ul> <li>Applied Linear Algebra</li> <li>Partial Differential Equations</li> <li>Computer Vision</li> <li>Complex Analysis</li> <li>History of Mathematics (Hyperbolic Geometry)</li> <li>Theory of Computation</li> <li>Introductory Machine Learning</li> <li>Discrete Math and Graph Theory</li> <li>Design and Analysis of Algorithms</li> </ul>	Summer 2017 Summer 2017 Spring 2017 Spring 2017 Spring 2017 Winter 2017 Winter 2017 Winter 2017 Fall 2016
	<ul> <li>Number Theory</li> <li>Advanced Data Structures</li> <li>Knot Theory</li> <li>Point-Set Topology</li> <li>Mathematical Algorithms and Systems Analysis in Computer Science</li> <li>Probability</li> <li>Software Tools and Techniques</li> <li>Combinatorics</li> <li>Abstract Algebra</li> <li>Real Analysis</li> </ul>	Summer 2016 Spring 2016 Spring 2016 Winter 2015 Winter 2015 Winter 2015 Winter 2015 Fall 2015 – Spring 2016 Fall 2015 – Spring 2016
	<ul> <li>Mathematical Reasoning and Proof</li> <li>Vector Calculus</li> <li>Structure and Interpretation of Signals and Systems</li> <li>Assembly Programming (x86)</li> <li>C++ Programming</li> <li>Finite Mathematics and Linear Programming</li> <li>Discrete Mathematics and Probability Theory</li> <li>Structure and Interpretation of Computer Programs (Python)</li> </ul>	Summer 2015 Summer 2015 Spring 2015 Spring 2015 Spring 2015 Spring 2015 Fall 2014 Fall 2014
	<ul> <li>Elementary Statistics</li> <li>Introduction to Unix</li> <li>Discrete Mathematics</li> <li>Electrical Circuit Theory</li> <li>Differential Equations and Linear Algebra</li> <li>Data Structures</li> </ul>	Summer 2014 Summer 2014 Spring 2014 Spring 2014 Spring 2014 Fall 2012

■ General Chemistry	Spring 2013 – Summer 2013
<ul> <li>Physics: Mechanics, Electromagnetism, Optics, and Waves</li> </ul>	Fall 2012 – Spring 2013
<ul> <li>Calculus: Single and Multivariable</li> </ul>	Fall 2012 – Spring 2013
<ul> <li>Systems Programming with C</li> </ul>	Fall 2012
<ul> <li>Discrete Structures in Computer Science</li> </ul>	Fall 2012
Object-Oriented Programming	Spring 2012