## 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
	<ul> <li>University of California, San Diego, La Jolla, CA, USA</li> <li>B.S. Mathematics</li> <li>Minor in Computer Science</li> <li>Major GPA: 3.723</li> </ul>	Aug 2015 – Jun 2018
	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	Sep 2011 – Jun 2014
	<ul><li>A.A. Mathematics</li><li>A.S. Physics</li><li>A.A. Fine Arts</li></ul>	
TEACHING	University of Georgia	
	■ Graduate School Teaching Seminar 1GRSC 7770)	Fall 2019
	Private Tutoring	2014 – Present
	<ul> <li>Calculus, Linear Algebra, Differential Equations,</li> <li>Real Analysis, Abstract Algebra, Complex Analysis,</li> <li>Point-Set Topology, Number Theory, Probability</li> </ul>	
AWARDS	<ul> <li>UC San Diego Academic Enrichment Program Summer Undergraduate Research Scholarship (Declined)</li> <li>Diana C. Miles Scholarship</li> <li>Errett Bishop Scholarship</li> <li>Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship</li> <li>Provost Honors (Muir College, UC San Diego)</li> </ul>	2017 - 2018 2017 - 2018 2016 - 2017 2016 - 2017 2015 - 2016
SERVICE	Society of Undergraduate Mathematics Students, UC San Diego	2016 – 2018
	<ul><li>President</li></ul>	
	Mathematics Club, Sierra College ■ Officer	2013 – 2014
WORKSHOPS AND TALKS	<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> <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> <li>Introduction to LaTeX</li> </ul>	Nov 2017 Oct 2017 Oct 2017 May 2017 Apr 2017 Feb 2017 Jan 2017 Jan 2017

	<ul> <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 Oct 2016 Oct 2016 May 2014	
WORK EXPERIENCE	Retail Scientifics, San Diego, CA	Jan 2016 – Aug 2019	
EXI EXIENCE	<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 compute graphics engine development in OpenGL for rendering 3D mod</li> </ul>	lels.	
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		
COURSEWORK	Graduate Coursework		
	<ul> <li>Algebraic Topology</li> <li>Topics in Real Analysis: Overtup Mechanics (Craduate)</li> </ul>	Fall 2017 – Spring 2018	
	<ul><li>Topics in Real Analysis: Quantum Mechanics (Graduate)</li><li>Functional Analysis</li></ul>	Spring 2017 Fall 2016 – Winter 2017	
	■ Algebra	Fall 2017	
	Undergraduate Coursework		
	<ul> <li>Cryptography</li> </ul>	Winter 2018	
	<ul> <li>Numerical Methods and Physical Modeling</li> </ul>	Fall 2017	
	<ul> <li>Image Processing</li> </ul>	Fall 2017	
	Applied Linear Algebra     Partial Differential Fountings	Summer 2017	
	<ul><li>Partial Differential Equations</li><li>Computer Vision</li></ul>	Summer 2017 Spring 2017	
	Complex Analysis	Spring 2017	
	<ul> <li>History of Mathematics (Hyperbolic Geometry)</li> </ul>	Spring 2017	
	■ Theory of Computation	Winter 2017	
	<ul><li>Introductory Machine Learning</li><li>Discrete Math and Graph Theory</li></ul>	Winter 2017 Winter 2017	
	<ul> <li>Design and Analysis of Algorithms</li> </ul>	Fall 2016	
	■ Number Theory	Summer 2016	
	<ul> <li>Advanced Data Structures</li> </ul>	Spring 2016	
	■ Knot Theory	Spring 2016	
	Point-Set Topology	Winter 2015	
	<ul> <li>Mathematical Algorithms and Systems Analysis in Computer Science</li> </ul>	Winter 2015	
	<ul><li>Probability</li><li>Software Tools and Techniques</li></ul>	Winter 2015 Winter 2015	
	<ul> <li>Combinatorics</li> </ul>	Fall 2015	
	■ Abstract Algebra	Fall 2015 – Spring 2016	
	■ Real Analysis	Fall 2015 – Spring 2016	
	Mathematical Reasoning and Proof	Summer 2015	
	Vector Calculus     Structure and Interpretation of Signals and Systems	Summer 2015	
	<ul><li>Structure and Interpretation of Signals and Systems</li><li>Assembly Programming (x86)</li></ul>	Spring 2015 Spring 2015	
	C++ Programming	Spring 2015	
	• Finite Mathematics and Linear Programming	Spring 2015	
	<ul> <li>Discrete Mathematics and Probability Theory</li> <li>Structure and Interpretation of Computer Programs (Puthon)</li> </ul>	Fall 2014	
	<ul> <li>Structure and Interpretation of Computer Programs (Python)</li> </ul>	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
<ul> <li>General Chemistry</li> <li>Physics: Mechanics, Electromagnetism, Optics, and Waves</li> <li>Calculus: Single and Multivariable</li> <li>Systems Programming with C</li> <li>Discrete Structures in Computer Science</li> <li>Object-Oriented Programming</li> </ul>	Spring 2013 – Summer 2013 Fall 2012 – Spring 2013 Fall 2012 – Spring 2013 Fall 2012 Fall 2012 Spring 2012