D. Zack Garza

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EDUCATION	University of Georgia, Athens,GA, USA	Aug 2019 – Present
	Ph.D. in Mathematics (Expected)	
	University of California, San Diego, La Jolla, CA, USA	Aug 2015 – Jun 2018
	B.S. Mathematics	
	Minor in Computer ScienceMajor GPA: 3.723	
	University of California, Berkeley, Berkeley, CA, USA	Sep 2014 – Jun 2015
	 Concurrent Enrollment CS 70: Discrete Mathematics and Probability Theory EE 20: Structure and Interpretation of Systems and Signals Cumulative GPA: 3.33 	
	Sierra College, Rocklin, California, USA	Sep 2011 – Jun 2014
	■ A.A. Mathematics	r
	• A.S. Physics	
	■ A.A. Fine Arts	
AWARDS	 UC San Diego Academic Enrichment Program 	
	Summer Undergraduate Research Scholarship (Declined)	2018
	■ Diana C. Miles Scholarship	2017 – 2018
	■ Errett Bishop Scholarship	2016 – 2017 2016 – 2017
	 Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship Provost Honors (Muir College, UC San Diego) 	2016 – 2017 2015 – 2016
	- 110vost 11011013 (wall contege, oc oali Diego)	2013 2010
SERVICE	Society of Undergraduate Mathematics Students, UC San Diego	2016 – 2018
	President	
	Mathematics Club, Sierra College	2013 – 2014
	■ Officer	
TEACHING	University of Georgia	
	 Graduate School Teaching Seminar 1GRSC 7770) 	Fall 2019
	Private Tutoring	2014 – Present
	 Calculus, Linear Algebra, Differential Equations, 	
	Real Analysis, Abstract Algebra, Complex Analysis, Point-Set Topology, Number Theory, Probability	
WORKSHOPS AND	 Mathematics Subject GRE Workshop 	Mar 2019
TALKS	Homotopy and the Hopf FibrationTopological Fixed Point Theorems	Jun 2018 Mar 2018
	Homology and The Snake LemmaAlgebraic Geometry: A Historical Primer	Nov 2017 Oct 2017
	 Introduction to Functional Programming 	Oct 2017 Oct 2017
	■ Intermediate LaTeX	May 2017
	Introduction to LaTeX	Apr 2017
	■ Intermediate LaTeX	Feb 2017
	Organizing Research Projects with LaTeXCategory Theory as an Organizational Tool	Jan 2017 Jan 2017
	 Introduction to LaTeX 	Nov 2016

	 Introduction to Category Theory, Part 2 Introduction to Category Theory, Part 1 Haskell for Mathematicians Discrete Mathematics: An Overview of Graphs and Trees 	Nov 2016 Oct 2016 Oct 2016 May 2014	
WORK EXPERIENCE	Retail Scientifics, San Diego, CA	Jan 2016 – Aug 2019	
EXI EXIENCE	 Data Scientist & Full Stack Engineer API development for real-time predictive modeling and machine learning. 		
	Google Summer of Code, Berkeley, CA	Apr 2015 – Aug 2015	
	Student DeveloperContributed Haskell code to the open source project Hackage.		
	Shutterfly, Santa Clara, CA	Jun 2014 – Jan 2015	
	 Software Engineer, Intern/Contractor Server-side compute graphics engine development in OpenGL for rendering 3D mod 	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		
	 Algebraic Topology Topics in Real Analysis: Overtup Mechanics (Craduate) 	Fall 2017 – Spring 2018	
	Topics in Real Analysis: Quantum Mechanics (Graduate)Functional Analysis	Spring 2017 Fall 2016 – Winter 2017	
	■ Algebra	Fall 2017	
	Undergraduate Coursework		
	 Cryptography 	Winter 2018	
	 Numerical Methods and Physical Modeling 	Fall 2017	
	 Image Processing 	Fall 2017	
	Applied Linear Algebra Partial Differential Fountings	Summer 2017	
	Partial Differential EquationsComputer Vision	Summer 2017 Spring 2017	
	Complex Analysis	Spring 2017	
	 History of Mathematics (Hyperbolic Geometry) 	Spring 2017	
	■ Theory of Computation	Winter 2017	
	Introductory Machine LearningDiscrete Math and Graph Theory	Winter 2017 Winter 2017	
	 Design and Analysis of Algorithms 	Fall 2016	
	■ Number Theory	Summer 2016	
	 Advanced Data Structures 	Spring 2016	
	■ Knot Theory	Spring 2016	
	Point-Set Topology	Winter 2015	
	 Mathematical Algorithms and Systems Analysis in Computer Science 	Winter 2015	
	ProbabilitySoftware Tools and Techniques	Winter 2015 Winter 2015	
	 Combinatorics 	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	
	Structure and Interpretation of Signals and SystemsAssembly Programming (x86)	Spring 2015 Spring 2015	
	C++ Programming	Spring 2015	
	• Finite Mathematics and Linear Programming	Spring 2015	
	 Discrete Mathematics and Probability Theory Structure and Interpretation of Computer Programs (Puthon) 	Fall 2014	
	 Structure and Interpretation of Computer Programs (Python) 	Fall 2014	

 Elementary Statistics Introduction to Unix Discrete Mathematics Electrical Circuit Theory Differential Equations and Linear Algebra Data Structures 	Summer 2014 Summer 2014 Spring 2014 Spring 2014 Spring 2014 Fall 2012
 General Chemistry Physics: Mechanics, Electromagnetism, Optics, and Waves Calculus: Single and Multivariable Systems Programming with C Discrete Structures in Computer Science Object-Oriented Programming 	Spring 2013 – Summer 2013 Fall 2012 – Spring 2013 Fall 2012 – Spring 2013 Fall 2012 Fall 2012 Spring 2012