D. Zack Garza

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EDUCATION	University of Georgia, Athens, GA, USA	Aug 2019 – Present
	■ Ph.D. in Mathematics (<i>In Progress</i>)	
	University of California, San Diego, La Jolla, CA, USA	Aug 2015 – Jun 2018
	■ B.S. in Pure Mathematics	
	Minor in Computer Science	
	■ Major 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. in Mathematics	1
	• A.S. in Physics	
	■ A.A. in Fine Arts	
PRESENTATIONS	■ Poster: Spectral Sequences and Higher Homotopy Groups of Spheres	
	UC San Diego Undergraduate Research Symposium	May 2018
WORKSHOPS AND	 Mathematics Subject GRE Workshop 	Mar 2019
TALKS	 Homotopy and the Hopf Fibration 	Jun 2018
	■ Topological Fixed Point Theorems	Mar 2018
	■ Homology and The Snake Lemma	Nov 2017
	 Algebraic Geometry: A Historical Primer 	Oct 2017
	Introduction to Functional Programming	Oct 2017
	■ Intermediate LATEX ■ Introduction to LATEX	May 2017 Apr 2017
	■ Intermediate LATEX	Feb 2017
	■ Organizing Research Projects with LATEX	Jan 2017
	 Category Theory as an Organizational Tool 	Jan 2017
	■ Introduction to LATEX	Nov 2016
	■ Introduction to Category Theory, Part 2	Nov 2016
	Introduction to Category Theory, Part 1Haskell for Mathematicians	Oct 2016 Oct 2016
	 Discrete Mathematics: Graphs and Trees 	May 2014
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AWARDS	 Louise Hoffmasterand and Frank R. Etchberger Graduate Scholarship LIC Son Diogo. Academia Englishment Program 	2019 – 2020
	 UC San Diego Academic Enrichment Program Undergraduate Research Scholarship (Declined) 	2018
	 Diana C. Miles Scholarship 	2017 – 2018
	■ Errett Bishop Scholarship	2016 - 2017
	Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship	2016 – 2017
	Provost Honors (Muir College, UC San Diego)	2015 – 2016
SERVICE	President of the Society of Undergraduate Mathematics Students at UC San Diego	2016 – 2018
	Officer of the Mathematics Club at Sierra College	2013 – 2014
TEACHING	University of Georgia	
LEAGIIIIG	oniversity of Georgia	

	Private Tutoring	2014 – Present	
	 Calculus, Linear Algebra, Differential Equations, Real Analysis, Abstract Algebra, Complex Analysis, Point-Set Topology, Number Theory, Probability 		
CONFEDENCES		May 2010	
CONFERENCES	University of Maryland Geometry FestivalArizona Winter School: Topology and Arithmetic	May 2019 Apr 2019	
	 UC San Diego Complex Algebraic Geometry 	Jan 2019	
	 Witt Vectors, Deformations, and Absolute Geometry 	Jun 2018	
	 Latinx in the Mathematical Sciences 	Mar 2018	
WORK	Retail Scientifics, San Diego, CA	Jan 2016 – Aug 2019	
EXPERIENCE	 Data Scientist & Full Stack Engineer API development for real-time predictive modeling, time-series forecasting, 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 Developed server-side OpenGL 3D graphics engine and associated mathematical 	libraries.	
COURSEWORK	Graduate Coursework		
	■ Algebra	Fall 2019	
	Real Analysis	Fall 2019	
	Differential TopologyLie Algebras	Fall 2019 Fall 2019	
	Algebraic Topology	Fall 2017 – Spring 2018	
	 Quantum Mechanics for Mathematicians 	Spring 2017	
	 Functional Analysis 	Fall 2016 – Winter 2017	
	■ Algebra	Fall 2017	
	Undergraduate Coursework		
	 Cryptography 	Winter 2018	
	Numerical Methods and Physical Modeling Lorge Purceasing	Fall 2017	
	Image Processing	Fall 2017	
	Applied Linear Algebra	Summer 2017	
	Partial Differential EquationsComputer Vision	Summer 2017 Spring 2017	
	Complex Analysis	Spring 2017 Spring 2017	
	 History of Mathematics (Hyperbolic Geometry) 	Spring 2017	
	 Theory of Computation 	Winter 2017	
	 Introductory Machine Learning 	Winter 2017	
	Discrete Math and Graph Theory	Winter 2017	
	 Design and Analysis of Algorithms 	Fall 2016	
	Number Theory Advanced Date Structures	Summer 2016	
	Advanced Data StructuresKnot Theory	Spring 2016 Spring 2016	
	Point-Set Topology	Winter 2015	
	 Mathematical Algorithms and Systems Analysis in Computer Science 	Winter 2015	
	Probability	Winter 2015	
	 Software Tools and Techniques 	Winter 2015	
	 Combinatorics 	Fall 2015	
	Abstract Algebra Real Application	Fall 2015 – Spring 2016	
	■ Real Analysis	Fall 2015 – Spring 2016	

■ Graduate School Teaching Seminar (GRSC 7770)

Fall 2019

 Mathematical Reasoning and Proof 	Summer 2015
 Vector Calculus 	Summer 2015
 Structure and Interpretation of Signals and Systems 	Spring 2015
 Assembly Programming (x86) 	Spring 2015
■ C++ Programming	Spring 2015
 Finite Mathematics and Linear Programming 	Spring 2015
 Discrete Mathematics and Probability Theory 	Fall 2014
 Structure and Interpretation of Computer Programs (Python) 	Fall 2014
■ Elementary Statistics	Summer 2014
 Introduction to Unix 	Summer 2014
Discrete Mathematics	Spring 2014
■ Electrical Circuit Theory	Spring 2014
 Differential Equations and Linear Algebra 	Spring 2014
■ Data Structures	Fall 2012
■ General Chemistry	Spring 2013 – Summer 2013
 Physics: Mechanics, Electromagnetism, Optics, and Waves 	Fall 2012 – Spring 2013
 Calculus: Single and Multivariable 	Fall 2012 – Spring 2013
 Systems Programming with C 	Fall 2012
 Discrete Structures in Computer Science 	Fall 2012
 Object-Oriented Programming 	Spring 2012