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 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 		
		Con 2011 Jun 2014	
	Sierra College, Rocklin, California, USA	Sep 2011 – Jun 2014	
	A.A. MathematicsA.S. Physics		
	• A.A. Fine Arts		
TEACHING	University of Georgia	Fall 2019	
	• qqq Private Tutoring	2014 – Present	
	 Calculus, Linear Algebra, Differential Equations, 		
	Real Analysis, Abstract Algebra, Complex Analysis,		
	Point-Set Topology, Number Theory, Probability		
WORK EXPERIENCE	Retail Scientifics, San Diego, CA	Jan 2016 – Aug 2019	
	 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 Developer 		
	 Contributed 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 models.		
AWARDS &	■ Diana C. Miles Scholarship	2017 – 2018	
SCHOLARSHIPS	■ 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	
CAMPUS	Society of Undergraduate Mathematics Students, University of California, San 1	Diego 2016 – 2018	
ACTIVITIES	■ President	-8-	
		2013 – 2014	
	Mathematics Club, Sierra College ■ Officer	2013 – 2014	
	- Officer		
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	 Mathematics Subject GRE Workshop 	Mar 2019	
TALKS GIVEN	 Homotopy and the Hopf Fibration 	Jun 2018	
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 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	May 2017
Introduction to LaTeX	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 1 	Oct 2016
 Haskell for Mathematicians 	Oct 2016
 Discrete Mathematics: An Overview of Graphs and Trees 	May 2014
Graduate Coursework	
 Algebraic Topology 	Fall 2017 – Spring 2018
 Topics in Real Analysis: Quantum Mechanics (Graduate) 	Spring 2017
Functional Analysis	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	Summer 2017
 Partial Differential Equations 	Summer 2017
■ Computer Vision	Spring 2017
■ Complex Analysis	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 	Summer 2016
Advanced Data Structures	Spring 2016
■ Knot Theory	Spring 2016
Point-Set Topology	Winter 2015
 Mathematical Algorithms and Systems Analysis in Computer Science Probability 	Winter 2015 Winter 2015
ProbabilitySoftware Tools and Techniques	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 	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

COURSEWORK

 Electrical Circuit Theory Differential Equations and Linear Algebra Data Structures	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