D. Zack Garza

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EDUCATION	University of Georgia, Athens,GA, USA ■ Ph.D. in Mathematics (Expected)	Aug 2019 – Present
	 University of California, San Diego, La Jolla, CA, USA B.S. Mathematics Minor in Computer Science Major GPA: 3.723 	Aug 2015 – Jun 2018
	 University of California, Berkeley, Berkeley, CA, USA Concurrent Enrollment CS 70: Discrete Mathematics and Probability Theory EE 20: Structure and Interpretation of Systems and Signals Cumulative GPA: 3.33 	Sep 2014 – Jun 2015
	 Sierra College, Rocklin, California, USA A.A. Mathematics A.S. Physics A.A. Fine Arts 	Sep 2011 – Jun 2014
WORKSHOPS AND TALKS	 Mathematics Subject GRE Workshop Homotopy and the Hopf Fibration Topological Fixed Point Theorems 	Mar 2019 Jun 2018 Mar 2018
	 Homology and The Snake Lemma Algebraic Geometry: A Historical Primer Introduction to Functional Programming Intermediate LaTeX Introduction to LaTeX Intermediate LaTeX Organizing Research Projects with LaTeX Category Theory as an Organizational Tool 	Nov 2017 Oct 2017 Oct 2017 May 2017 Apr 2017 Feb 2017 Jan 2017 Jan 2017
	 Introduction to LaTeX Introduction to Category Theory, Part 2 Introduction to Category Theory, Part 1 Haskell for Mathematicians Discrete Mathematics: Graphs and Trees 	Nov 2016 Nov 2016 Oct 2016 Oct 2016 May 2014
AWARDS	 UC San Diego Academic Enrichment Program Summer Undergraduate Research Scholarship (Declined) Diana C. Miles Scholarship Errett Bishop Scholarship Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship Provost Honors (Muir College, UC San Diego) 	2018 2017 - 2018 2016 - 2017 2016 - 2017 2015 - 2016
SERVICE	President, Society of Undergraduate Mathematics Students , UC San Diego Officer, Mathematics Club , Sierra College	2016 – 2018 2013 – 2014
TEACHING	University of Georgia ■ Graduate School Teaching Seminar (GRSC 7770) Private Tutoring	Fall 2019 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

Winter 2015

Fall 2015 - Spring 2016

Fall 2015

- Software Engineer, Intern/Contractor
 - Server-side compute graphics engine development in OpenGL for rendering 3D models.

COURSEWORK

Graduate Coursework

 Algebraic Topology 	Fall 2017 – Spring 2018
 Quantum Mechanics for Mathematicians 	Spring 2017
■ Functional Analysis	Fall 2016 – Winter 2017
Algebra	Fall 2017

Undergraduate Coursework

Software Tools and Techniques

Combinatorics

■ Abstract Algebra

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 	Winter 2015
Probability	Winter 2015

■ 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
 Electrical Circuit Theory 	Spring 2014

Differential Equations and Linear AlgebraData Structures	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