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	
	Sierra College, Rocklin, California, USA	Sep 2011 – Jun 2014
	- A.A. Mathematics - A.S. Physics - A.A. Fine Arts	
WORK EXPERIENCE	**Retail Scientifics**, San Diego, CA	Jan 2016 – Present
	- 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 OpenGL engine development for rendering 3D models.	
AWARDS & SCHOLARSHIPS	- Diana C. Miles Scholarship - Errett Bishop Scholarship - Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship - Provost Honors (Muir College, UC San Diego)	2017 – 2018 2016 – 2017 2016 – 2017 2015 – 2016
CAMPUS ACTIVITIES	**Society of Undergraduate Mathematics Students**, University of California, San Diego	2016 – 2018
	President	
	Mathematics Club, Sierra College	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 TALKS GIVEN	- 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	Nov 2017 Oct 2017 Oct 2017 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

COURSEWORK

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	Winter 2015
■ Probability	Winter 2015
■ Software 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
■ 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