

# D. Zack Garza

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<b>EDUCATION</b>	<b>University of California, San Diego</b> , La Jolla, CA, USA	Aug 2015 – Jun 2018
	<ul style="list-style-type: none"><li>▪ B.S. Mathematics</li><li>▪ Minor in Computer Science</li><li>▪ Major GPA: 3.723</li></ul>	
	<b>University of California, Berkeley</b> , Berkeley, CA, USA	Sep 2014 – Jun 2015
	<ul style="list-style-type: none"><li>▪ Concurrent Enrollment<ul style="list-style-type: none"><li>• CS 70: Discrete Mathematics and Probability Theory</li><li>• EE 20: Structure and Interpretation of Systems and Signals</li></ul></li><li>▪ Cumulative GPA: 3.33</li></ul>	
	<b>Sierra College</b> , Rocklin, California, USA	Sep 2011 – Jun 2014
	<ul style="list-style-type: none"><li>▪ A.A. Mathematics</li><li>▪ A.S. Physics</li><li>▪ A.A. Fine Arts</li></ul>	
<b>WORK EXPERIENCE</b>	<b>Retail Scientifics</b> , San Diego, CA	Jan 2016 – Present
	<ul style="list-style-type: none"><li>▪ Data Scientist &amp; Full Stack Engineer<ul style="list-style-type: none"><li>• API development for real-time predictive modeling and machine learning.</li></ul></li></ul>	
	<b>Google Summer of Code</b> , Berkeley, CA	Apr 2015 – Aug 2015
	<ul style="list-style-type: none"><li>▪ Student Developer<ul style="list-style-type: none"><li>• Contributed Haskell code to the open source project Hackage.</li></ul></li></ul>	
	<b>Shutterfly</b> , Santa Clara, CA	Jun 2014 – Jan 2015
	<ul style="list-style-type: none"><li>▪ Software Engineer, Intern/Contractor<ul style="list-style-type: none"><li>• Server-side OpenGL engine development for rendering 3D models.</li></ul></li></ul>	
<b>AWARDS &amp; SCHOLARSHIPS</b>	<ul style="list-style-type: none"><li>▪ Diana C. Miles Scholarship</li><li>▪ Errett Bishop Scholarship</li><li>▪ Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship</li><li>▪ Provost Honors (Muir College, UC San Diego)</li></ul>	2017 – 2018 2016 – 2017 2016 – 2017 2015 – 2016
<b>CAMPUS ACTIVITIES</b>	<b>Society of Undergraduate Mathematics Students</b> , University of California, San Diego	2016 – 2018
	<ul style="list-style-type: none"><li>▪ President</li></ul>	
	<b>Mathematics Club</b> , Sierra College	2013 – 2014
	<ul style="list-style-type: none"><li>▪ Officer</li></ul>	
<b>TECHNICAL SKILLS</b>	Android, C, C++, ECMAScript, Bash, Git, HTML5/CSS3, Haskell, Java, Javascript, $\LaTeX$ , MATLAB, Node, NumPy, OpenGL, PHP, Python, R, SAGE, SQL, Unix/Linux	
<b>WORKSHOPS AND TALKS GIVEN</b>	<ul style="list-style-type: none"><li>▪ Homotopy and the Hopf Fibration</li><li>▪ Topological Fixed Point Theorems</li><li>▪ Homology and The Snake Lemma</li><li>▪ Algebraic Geometry: A Historical Primer</li><li>▪ Introduction to Functional Programming</li><li>▪ Intermediate <math>\LaTeX</math></li><li>▪ Introduction to <math>\LaTeX</math></li><li>▪ Intermediate <math>\LaTeX</math></li><li>▪ Organizing Research Projects with <math>\LaTeX</math></li><li>▪ Category Theory as an Organizational Tool</li><li>▪ Introduction to <math>\LaTeX</math></li></ul>	Jun 2018 Mar 2018 Nov 2017 Oct 2017 Oct 2017 May 2017 Apr 2017 Feb 2017 Jan 2017 Jan 2017 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