

# D. Zack Garza

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EDUCATION	<b>University of Georgia</b> , Athens, GA, USA	Aug 2019 – Present
	▪ Ph.D. in Mathematics (Expected)	
	<b>University of California, San Diego</b> , La Jolla, CA, USA	Aug 2015 – Jun 2018
	▪ B.S. Mathematics ▪ Minor in Computer Science ▪ Major GPA: 3.723	
	<b>University of California, Berkeley</b> , Berkeley, CA, USA	Sep 2014 – Jun 2015
	▪ 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>	
	▪ Cumulative GPA: 3.33	
	<b>Sierra College</b> , Rocklin, California, USA	Sep 2011 – Jun 2014
	▪ A.A. Mathematics ▪ A.S. Physics ▪ A.A. Fine Arts	
TEACHING	University of Georgia	
	▪ Graduate School Teaching Seminar (GRSC 7770)	Fall 2019
	Private Tutoring	2014 – Present
	▪ Calculus, Linear Algebra, Differential Equations, Real Analysis, Abstract Algebra, Complex Analysis, Point-Set Topology, Number Theory, Probability	
	▪ 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
	<b>Society of Undergraduate Mathematics Students</b> , University of California, San Diego	2016 – 2018
	▪ President	
	<b>Mathematics Club</b> , Sierra College	2013 – 2014
	▪ Officer	
	Android, C, C++, ECMAScript, Bash, Git, HTML5/CSS3, Haskell, Java, Javascript, $\LaTeX$ , MATLAB, Node, NumPy, OpenGL, PHP, Python, R, SAGE, SQL, Unix/Linux	
	▪ Mathematics Subject GRE Workshop	Mar 2019
	▪ 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	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

#### **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.

#### **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
- 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