

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	
WORKSHOPS AND TALKS	▪ 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: Graphs and Trees	May 2014
AWARDS	▪ UC San Diego Academic Enrichment Program	
	Summer Undergraduate Research Scholarship (Declined)	2018
	▪ 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
SERVICE	President, Society of Undergraduate Mathematics Students , UC San Diego	2016 – 2018
	Officer, Mathematics Club , Sierra College	2013 – 2014
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

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.

COURSEWORK

Graduate Coursework

- Algebraic Topology
- Topics in Real Analysis: Quantum Mechanics (Graduate)
- Functional Analysis
- Algebra

Fall 2017 – Spring 2018
Spring 2017
Fall 2016 – Winter 2017
Fall 2017

Undergraduate Coursework

- Cryptography
- Numerical Methods and Physical Modeling
- Image Processing
- Applied Linear Algebra
- Partial Differential Equations
- Computer Vision
- Complex Analysis
- History of Mathematics (Hyperbolic Geometry)
- Theory of Computation
- Introductory Machine Learning
- Discrete Math and Graph Theory
- Design and Analysis of Algorithms
- Number Theory
- Advanced Data Structures
- Knot Theory
- Point-Set Topology
- Mathematical Algorithms and Systems Analysis in Computer Science
- Probability
- Software Tools and Techniques
- Combinatorics
- Abstract Algebra
- Real Analysis
- Mathematical Reasoning and Proof
- Vector Calculus
- Structure and Interpretation of Signals and Systems
- Assembly Programming (x86)
- C++ Programming
- Finite Mathematics and Linear Programming
- Discrete Mathematics and Probability Theory
- Structure and Interpretation of Computer Programs (Python)
- Elementary Statistics
- Introduction to Unix
- Discrete Mathematics
- Electrical Circuit Theory

Winter 2018
Fall 2017
Fall 2017
Summer 2017
Summer 2017
Spring 2017
Spring 2017
Spring 2017
Winter 2017
Winter 2017
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Summer 2016
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Winter 2015
Winter 2015
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Fall 2015
Fall 2015 – Spring 2016
Fall 2015 – Spring 2016
Summer 2015
Summer 2015
Spring 2015
Spring 2015
Spring 2015
Spring 2015
Fall 2014
Fall 2014
Summer 2014
Summer 2014
Spring 2014
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