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	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