

D. Zack Garza

3667 Christine Street, San Diego, CA, 92117
dzackgarza@gmail.com • +1 (530) 210-9130 • <https://www.dzackgarza.com>

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 <ul style="list-style-type: none">• 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	
PRESENTATIONS	▪ Poster: <i>Spectral Sequences and Higher Homotopy Groups of Spheres</i> UC San Diego Undergraduate Research Symposium	May 2018
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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Data Scientist & Full Stack Engineer <ul style="list-style-type: none"> API development for real-time predictive modeling, time-series forecasting, and machine learning. 	
	Google Summer of Code , Berkeley, CA	Apr 2015 – Aug 2015
	<ul style="list-style-type: none"> Student Developer <ul style="list-style-type: none"> Contributed Haskell code to the open source project Hackage. 	
	Shutterfly , Santa Clara, CA	Jun 2014 – Jan 2015
	<ul style="list-style-type: none"> Software Engineer, Intern/Contractor <ul style="list-style-type: none"> Developed server-side OpenGL 3D graphics engine and associated mathematical libraries. 	
CONFERENCES ATTENDED	<ul style="list-style-type: none"> xxx 	Jan 2019
	COURSEWORK	
	Graduate Coursework	
	<ul style="list-style-type: none"> Algebraic Topology 	Fall 2017 – Spring 2018
	<ul style="list-style-type: none"> Quantum Mechanics for Mathematicians 	Spring 2017
	<ul style="list-style-type: none"> Functional Analysis 	Fall 2016 – Winter 2017
	<ul style="list-style-type: none"> Algebra 	Fall 2017
	Undergraduate Coursework	
	<ul style="list-style-type: none"> Cryptography 	Winter 2018
	<ul style="list-style-type: none"> Numerical Methods and Physical Modeling 	Fall 2017
	<ul style="list-style-type: none"> Image Processing 	Fall 2017
	<ul style="list-style-type: none"> Applied Linear Algebra 	Summer 2017
	<ul style="list-style-type: none"> Partial Differential Equations 	Summer 2017
	<ul style="list-style-type: none"> Computer Vision 	Spring 2017
	<ul style="list-style-type: none"> Complex Analysis 	Spring 2017
	<ul style="list-style-type: none"> History of Mathematics (Hyperbolic Geometry) 	Spring 2017
	<ul style="list-style-type: none"> Theory of Computation 	Winter 2017
	<ul style="list-style-type: none"> Introductory Machine Learning 	Winter 2017
	<ul style="list-style-type: none"> Discrete Math and Graph Theory 	Winter 2017
	<ul style="list-style-type: none"> Design and Analysis of Algorithms 	Fall 2016
	<ul style="list-style-type: none"> Number Theory 	Summer 2016
	<ul style="list-style-type: none"> Advanced Data Structures 	Spring 2016
	<ul style="list-style-type: none"> Knot Theory 	Spring 2016
	<ul style="list-style-type: none"> Point-Set Topology 	Winter 2015
	<ul style="list-style-type: none"> Mathematical Algorithms and Systems Analysis in Computer Science 	Winter 2015
	<ul style="list-style-type: none"> Probability 	Winter 2015
	<ul style="list-style-type: none"> Software Tools and Techniques 	Winter 2015
	<ul style="list-style-type: none"> Combinatorics 	Fall 2015
	<ul style="list-style-type: none"> Abstract Algebra 	Fall 2015 – Spring 2016
	<ul style="list-style-type: none"> Real Analysis 	Fall 2015 – Spring 2016
	<ul style="list-style-type: none"> Mathematical Reasoning and Proof 	Summer 2015
	<ul style="list-style-type: none"> Vector Calculus 	Summer 2015
	<ul style="list-style-type: none"> Structure and Interpretation of Signals and Systems 	Spring 2015
	<ul style="list-style-type: none"> Assembly Programming (x86) 	Spring 2015
	<ul style="list-style-type: none"> C++ Programming 	Spring 2015
	<ul style="list-style-type: none"> Finite Mathematics and Linear Programming 	Spring 2015
	<ul style="list-style-type: none"> Discrete Mathematics and Probability Theory 	Fall 2014
	<ul style="list-style-type: none"> Structure and Interpretation of Computer Programs (Python) 	Fall 2014
	<ul style="list-style-type: none"> 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