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 B.S. in Pure Mathematics Minor in Computer Science Major GPA: 3.723 	Aug 2015 – Jun 2018
	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 	-
PRESENTATIONS	 Poster: Spectral Sequences and Higher Homotopy Groups of Spheres UC San Diego Undergraduate Research Symposium 	May 2018
WORKSHOPS AND TALKS	 Mathematics Subject GRE Workshop Homotopy and the Hopf Fibration Topological Fixed Point Theorems 	Mar 2019 Jun 2018 Mar 2018
	 Homology and The Snake Lemma Algebraic Geometry: A Historical Primer Introduction to Functional Programming Intermediate LaTeX Introduction to LaTeX Intermediate LaTeX Organizing Research Projects with LaTeX Category Theory as an Organizational Tool 	Nov 2017 Oct 2017 Oct 2017 May 2017 Apr 2017 Feb 2017 Jan 2017 Jan 2017
	 Introduction to LATEX Introduction to Category Theory, Part 2 Introduction to Category Theory, Part 1 Haskell for Mathematicians Discrete Mathematics: Graphs and Trees 	Nov 2016 Nov 2016 Oct 2016 Oct 2016 May 2014
AWARDS	 UC San Diego Academic Enrichment Program Undergraduate Research Scholarship (Declined) Diana C. Miles Scholarship Errett Bishop Scholarship Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship Provost Honors (Muir College, UC San Diego) 	2018 2017 - 2018 2016 - 2017 2016 - 2017 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

2014 - Present **Private Tutoring** Calculus, Linear Algebra, Differential Equations, Real Analysis, Abstract Algebra, Complex Analysis, Point-Set Topology, Number Theory, Probability **CONFERENCES** University of Maryland Geometry Festival May 2019 • Arizona Winter School: Topology and Arithmetic Apr 2019 Jan 2019 UC San Diego Complex Algebraic Geometry Witt Vectors, Deformations, and Absolute Geometry Jun 2018 Latinx in the Mathematical Sciences Mar 2018 Jan 2016 - Aug 2019 WORK Retail Scientifics, San Diego, CA **EXPERIENCE** Data Scientist & Full Stack Engineer · API development for real-time predictive modeling, time-series forecasting, and machine learning. Google Summer of Code, Berkeley, CA Apr 2015 – Aug 2015 Student Developer · Contributed Haskell code to the open source project Hackage. Jun 2014 - Jan 2015 Shutterfly, Santa Clara, CA Software Engineer, Intern/Contractor • Developed server-side OpenGL 3D graphics engine and associated mathematical libraries. **COURSEWORK Graduate Coursework** Algebraic Topology Fall 2017 – Spring 2018 Quantum Mechanics for Mathematicians Spring 2017 • Functional Analysis Fall 2016 - Winter 2017 Algebra Fall 2017 **Undergraduate Coursework** Cryptography Winter 2018 Numerical Methods and Physical Modeling Fall 2017 Fall 2017 ■ Image Processing Summer 2017 Applied Linear Algebra 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 Fall 2015 - Spring 2016 Abstract Algebra Fall 2015 - Spring 2016 Real Analysis Mathematical Reasoning and Proof Summer 2015 Vector Calculus Summer 2015 • Structure and Interpretation of Signals and Systems Spring 2015 Assembly Programming (x86) Spring 2015

Spring 2015

■ C++ Programming

 Finite Mathematics and Linear Programming Discrete Mathematics and Probability Theory Structure and Interpretation of Computer Programs (Python) 	Spring 2015 Fall 2014 Fall 2014
Elementary StatisticsIntroduction to Unix	Summer 2014 Summer 2014
Discrete Mathematics	Spring 2014
Electrical Circuit TheoryDifferential Equations and Linear Algebra	Spring 2014 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