## D. Zack Garza

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EDUCATION	University of Georgia,	Aug 2019 – Present
	<ul><li>Ph.D. in Mathematics (In Progress)</li></ul>	
	University of California, San Diego	Aug 2015 – Jun 2018
	■ B.S. in Mathematics, Computer Science minor.	
	University of California, Berkeley	Sep 2014 – Jun 2015
	■ Concurrent Enrollment	•
	Sierra College	Sep 2011 – Jun 2014
	■ A.A. in Mathematics	•
	■ A.S. in Physics	
	• A.A. in Fine Arts	
HONORS & AWARDS	<ul> <li>UGA Capturing Science Contest, 2nd Place</li> </ul>	2020
	■ Louise Hoffmasterand and Frank R. Etchberger Graduate Scholarship (×2)	2019 - 2021
	UC San Diego Academic Enrichment Program  Undergraduate Research Scholarchin (Paglined)	2010
	Undergraduate Research Scholarship ( <i>Declined</i> ) ■ Diana C. Miles Scholarship	2018 2017 – 2018
	<ul> <li>Errett Bishop Scholarship</li> </ul>	2016 – 2017
	Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship	2016 – 2017
	<ul><li>Provost Honors (Muir College, UC San Diego)</li></ul>	2015 - 2016
TEACHING &	Teaching	
OUTREACH	• ( <i>Planned</i> ) Instructor of Record, Calculus I (Math 2250, 2 Sections), UGA	Fall 2021
	<ul> <li>Instructor of Record, PreCalculus (Math 1113, 1 Section), UGA</li> </ul>	Fall 2020
	<ul> <li>Instructor of Record, PreCalculus (Math 1113, 2 Sections), UGA</li> </ul>	Spring 2021
	• Training: Graduate Teaching Seminar, UGA	Fall 2019 - Present
	Grading and Tutoring	E 11 2010 C : . 2020
	<ul> <li>Graduate Mathematics Assistant, Tutoring Program (UGA)</li> <li>Recitation Leader: Calculus I (Math 2200, UGA)</li> </ul>	Fall 2019 – Spring 2020 Fall 2019
	Grading	raii 201 <i>3</i>
	• Real Analysis (Math 4100/6100, UGA)	Fall 2020
	<ul> <li>Foundations of Geometry (Math 5200/7200, UGA)</li> </ul>	Spring 2020
	Differential Geometry (Math 4250/6250, UGA)  Alaba de Millia Galacia (Math 4250/6250, UGA)	Spring 2020
	<ul> <li>Algebra for Middle School Teachers (Math 5035, UGA)</li> <li>Private Tutoring</li> </ul>	Spring 2020 2014 – Present
	• 20+ student clients.	2014 – 1 1C5CHt
	Subjects: Calculus, Linear Algebra, Differential Equations,	
	Real Analysis, Abstract Algebra, Complex Analysis,	
	Point-Set Topology, Number Theory, Probability, Combinatorics Extracurricular Organizations	
	<ul> <li>President, Society of Undergraduate Mathematics Students (UCSD)</li> </ul>	2016 – 2018
	<ul> <li>Officer, Mathematics Club (Sierra College)</li> </ul>	2013 – 2014
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SELECTED TALKS	F3F (	Mar 2021
	<ul> <li>Seminar in Floer Homology (Multiple Talks)</li> <li>Classification Theorems in Topology and Geometry (Mock AMS, UGA)</li> </ul>	Fall 2020 Jul 2020
	<ul> <li>Homotopy Groups of Spheres (Graduate Student Seminar, UGA)</li> </ul>	Apr 2020
	<ul> <li>Zeta Functions and the Weil Conjectures</li> </ul>	r
	(CRAAG Arithmetic Geometry Seminar, UGA)	Feb 2020

	<ul> <li>The Arnold Conjecture: Periodic Orbits in Symplectic Geometry (Graduate Student Topology, Seminar, UGA)</li> </ul>	Feb 2020	
	<ul> <li>Poincaré Conjectures and the Kervaire Invariant One Problem</li> </ul>		
	(Graduate Student Topology Seminar, UGA)	Oct 2019	
	■ Spectral Sequences: A Primer (Graduate Student Seminar, UGA)	Oct 2019	
	<ul> <li>Comparison Theorems in Cohomology: Singular, Simplicial, de Rham, and Čech</li> </ul>	•	
	<ul> <li>Mathematics Subject GRE Workshop (UCSD)</li> </ul>	Mar 2019	
	<ul> <li>Homotopy and the Hopf Fibration (UCSD)</li> </ul>	Jun 2018	
	■ Spectral Sequences and Higher Homotopy Groups of Spheres (Poster)	M 2010	
	UC San Diego Undergraduate Research Symposium	May 2018	
	<ul><li>Topological Fixed Point Theorems (UCSD)</li><li>Homology and The Snake Lemma (UCSD)</li></ul>	Mar 2018 Nov 2017	
	<ul> <li>Homology and The Shake Lemma (OCSD)</li> <li>Algebraic Geometry: A Historical Primer (UCSD)</li> </ul>	Oct 2017	
	■ Introduction to Category Theory, Part 3 (UCSD)	Jan 2017	
	■ Introduction to Category Theory, Part 3 (UCSD)	Nov 2016	
	■ Introduction to Category Theory, Part 1 (UCSD)	Oct 2016	
	■ Discrete Mathematics: Graphs and Trees (UCSD)	May 2014	
	Discrete Mathematics. Graphs and Trees (OGSD)	111ay 2014	
WORKSHOPS	<ul> <li>Introduction to Functional Programming (UCSD)</li> </ul>	Oct 2017	
	■ Intermediate L <sup>A</sup> T <sub>E</sub> X(UCSD)	May 2017	
	■ Introduction to L <sup>A</sup> T <sub>E</sub> X(UCSD)	Apr 2017	
	■ Intermediate L <sup>A</sup> T <sub>E</sub> X(UCSD)	Feb 2017	
	<ul> <li>Organizing Research Projects with LATEX(UCSD)</li> </ul>	Jan 2017	
	■ Introduction to LaTeX(UCSD)	Nov 2016	
	<ul><li>Haskell for Mathematicians (UCSD)</li></ul>	Oct 2016	
WORK EXPERIENCE	Retail Scientifics, San Diego, CA	Jan 2016 – Aug 2019	
	<ul> <li>Data Scientist &amp; Full Stack Engineer</li> <li>API development for real-time predictive modeling, time-series forecasting, and machine learning.</li> </ul>		
	Google Summer of Code, Berkeley, CA	Apr 2015 – Aug 2015	
	<ul><li>Student Developer</li><li>Contributed Haskell code to the open source project Hackage.</li></ul>		
	Shutterfly, Santa Clara, CA	Jun 2014 – Jan 2015	
	<ul> <li>Software Engineer, Intern/Contractor</li> <li>Developed server-side OpenGL 3D graphics engine and associated mathematical libraries.</li> </ul>		
CONFERENCES	<ul> <li>Graduate Online Anything Topology Conference (GOATS) (Organizer, 3 iterations)</li> </ul>	Summer 2020	
MISC.	■ List of coursework:		
	https://dzackgarza.com/activities/coursework		
	<ul> <li>Expository writing and open-source collection of course notes in L<sup>A</sup>T<sub>E</sub>X: https://dzackgarza.com/writing/</li> </ul>		
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## Shutterfly, Santa Clara, CA

Jun 2014 – Jan 2015

Software Engineer, Intern/Contractor
 Developed server-side OpenGL 3D graphics engine and associated mathematical libraries.