D. Zack Garza

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EDUCATION	University of Georgia,	Aug 2019 – Present
	Ph.D. in Mathematics (In Progress)	
	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	 UGA Capturing Science Contest, 2nd Place 	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
	 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
TEACHING &	Teaching	
OUTREACH	• (<i>Planned</i>) Instructor of Record, Calculus I (Math 2250, 2 Sections), UGA	Fall 2021
	 Instructor of Record, PreCalculus (Math 1113, 1 Section), UGA 	Fall 2020
	 Instructor of Record, PreCalculus (Math 1113, 2 Sections), UGA 	Spring 2021
	• Training: Graduate Teaching Seminar, UGA	Fall 2019 - Present
	Grading and Tutoring	E 11 2010 C : . 2020
	 Graduate Mathematics Assistant, Tutoring Program (UGA) Recitation Leader: Calculus I (Math 2200, UGA) 	Fall 2019 – Spring 2020 Fall 2019
	Grading	raii 2013
	• Real Analysis (Math 4100/6100, UGA)	Fall 2020
	 Foundations of Geometry (Math 5200/7200, UGA) 	Spring 2020
	Differential Geometry (Math 4250/6250, UGA) Alaba G. Millin G. La L. T. (2007) Alaba G. Millin G. La L. (2007) Alaba G. Millin G. (2007) Alaba G	Spring 2020
	 Algebra for Middle School Teachers (Math 5035, UGA) Private Tutoring 	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	
	 President, Society of Undergraduate Mathematics Students (UCSD) 	2016 – 2018
	 Officer, Mathematics Club (Sierra College) 	2013 – 2014
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SELECTED TALKS	F3F	Mar 2021
	 Seminar in Floer Homology (Multiple Talks) Classification Theorems in Topology and Geometry (Mock AMS, UGA) 	Fall 2020 Jul 2020
	 Homotopy Groups of Spheres (Graduate Student Seminar, UGA) 	Apr 2020
	 Zeta Functions and the Weil Conjectures 	r
	(CRAAG Arithmetic Geometry Seminar, UGA)	Feb 2020

	■ The Arnold Conjecture: Periodic Orbits in Symplectic Geometry		
	(Graduate Student Topology, Seminar, UGA)	Feb 2020	
	 Poincaré Conjectures and the Kervaire Invariant One Problem 		
	(Graduate Student Topology Seminar, UGA)	Oct 2019	
	 Spectral Sequences: A Primer (Graduate Student Seminar, UGA) 	Oct 2019	
	 Comparison Theorems in Cohomology: Singular, Simplicial, de Rham, and Če 	ch Sep 2019	
	 Mathematics Subject GRE Workshop (UCSD) 	Mar 2019	
	 Homotopy and the Hopf Fibration (UCSD) 	Jun 2018	
	 Spectral Sequences and Higher Homotopy Groups of Spheres (Poster) 		
	UC San Diego Undergraduate Research Symposium	May 2018	
	■ Topological Fixed Point Theorems (UCSD)	Mar 2018	
	 Homology and The Snake Lemma (UCSD) 	Nov 2017	
	 Algebraic Geometry: A Historical Primer (UCSD) 	Oct 2017	
	■ Introduction to Category Theory, Part 3 (UCSD)	Jan 2017	
	■ Introduction to Category Theory, Part 2 (UCSD)	Nov 2016	
	■ Introduction to Category Theory, Part 1 (UCSD)	Oct 2016	
	■ Discrete Mathematics: Graphs and Trees (UCSD)	May 2014	
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WORKSHOPS	 Introduction to Functional Programming (Organizer/Speaker, UCSD) 	Oct 2017	
	■ Intermediate LAT _F X(Organizer/Speaker, UCSD)	May 2017	
	■ Introduction to LATEX(Organizer/Speaker, UCSD)	Apr 2017	
	■ Intermediate LAT _E X(Organizer/Speaker, UCSD)	Feb 2017	
	 Organizing Research Projects with LATEX (Organizer/Speaker, UCSD) 	Jan 2017	
	■ Introduction to LATeX(Organizer/Speaker, UCSD)	Nov 2016	
	 Haskell for Mathematicians (Organizer/Speaker, UCSD) 	Oct 2016	
WORK	Retail Scientifics, San Diego, CA	Jan 2016 – Aug 2019	
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.		
	Shutterfly, Santa Clara, CA	Jun 2014 – Jan 2015	
	■ Software Engineer, Intern/Contractor		
	 Developed server-side OpenGL 3D graphics engine and associated mathematical librarie 	25.	
CONFERENCES	 Graduate Online Anything Topology Conference (GOATS) 		
00111 21121 (020	(Organizer, 3 iterations)	Summer 2020	
MISC.	List of coursework:		
	https://dzackgarza.com/activities/coursework		
	■ Expository writing and open-source collection of course notes in LaTeX:		
	https://dzackgarza.com/writing/		