MAXWELL AUERBACH

CURRICULUM VITÆ

400 Dowman Dr NE Altana, GA 30322	3	(513) 399-9338 mdauerb@emory.edu
Research Interests	Riemannian and Pseudo-Riemmanian Geometry, Geometric Inverse Pro Mathematics Education	blems, Microlocal Analysis,
EDUCATION	Emory University , PhD Mathematics Advisor: Yiran Wang	Atlanta, GA Expected Jul 2025
	University of Redlands , B.S. Mathematics and Computer Science	Redlands, CA Graduated Apr 2020
Scholarship	Thesis: A Hopf Type Theorem and Related Results for Pseduo-Riemannian Geometry. Emory University Work done under Yiran Wang. In Preparation	
	Paper: Shortest Paths in Generalizations of the Sierpinski Carpet.	
	Lafayette College	Preprint
	Talk: Strategies for Creating a Student Driven Environment for the COMAP Modeling Contests, from Students' Perspectives.	
	JMM 2021	Presented Jan 2021
	Talk: Shortest Paths in Generalizations of the Sierpinski Carpet. JMM 2020	Presented Jan 2020
TEACHING Experience	Instructor of Record Calculus Sequence	Emory University Aug 2022 – May 2025
	Calculus 1 Fall 2022 Taught under co-ordination by Juan Villeta-Garcia Calculus 2 Spring 2023, Spring 2024, Fall 2024 and Spring 2025 Taught and developed a syllabus under the guidance of James Nagy	7
	ТА	Emory University
	Advanced Calculus for Data Science Fall 2021 lead a lab and graded under Mike Carr Spring 2022 lead a lab and graded under Andrew Kobin	Aug 2021 – May 2022
	Teaching Seminar Guided first year mathematics graduate students on teaching under	Jan 2025 – May 2025 Bree Ettinger
	Grader Department of Mathematics Worked under Professor Mike Carr for the class Advanced Calculus for Data Sci	Emory University Aug 2020 – May 2021 ience.
Technical Skills	Coding Proficiency: Java, Godot, JavaScript, LATEX, HTML/CSS Languages: English (fluent), American Sign Language (aspirational)	
CITIZENSHIP	American	
Hobbies & Passions	Board games, cooking, rock climbing and baking.	