Michael Nelson
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Education

2012	**Kennesaw State university**	
	Bachelor of Arts in Mathematics (2006-2012)	
	Research Advisors: Josip Derado and Jonathan Lewin	

2019   **Georgia Southern university**
Master of Science in Mathematics (2017-2019)
Research Advisor: Saeed Nasseh

2025   **Clemson University**
Doctor of Philosophy in Mathematics (2019-2025)
Research Advisor: Keri Sather-Wagstaff

Academic Positions

2017-2019   Teaching Assistant, Georgia Southern University

2019–2021   Teaching Assistant, Clemson University

2023–2025   Teaching Assistant, Clemson University

Thesis and Research Publications or to be Submitted

2012   "Capstone Project: On The Existence of Nonmeasurable Cardinals", Kennesaw State University

2019   Georgia Southern University Thesis: `https://github.com/mnelso32/Expository-Notes/blob/main/Mathematics/Algebra/Thesis/Thesis/ThesisNew.pdf`

2024   Clemson University Thesis: "Homological Associativity of Differential Graded Algebras and Gröbner Bases", *https://arxiv.org/pdf/2406.00141*

2024   "Goldbach Rings", in preparation to be submitted.

Seminars and Talks

2018   (Contributed Research Talk) MAA Southeastern 2018 Conference, "Combinatorics involved with Permutohedra and Associahedra" (link to talk: `https://www.youtube.com/watch?v=k_gYs5uY70A`)

2022   (Invited Research Talk) AMS Fall Southeastern Sectional Meeting, University of Tennessee, "MDG Algebras"

2023   ADM Seminar, Clemson University, "Homological Associativity of Differential Graded Algebras and Gröbner Bases"

2024   University of South Carolina Seminar, "Homological Associativity of Differential Graded Algebras and Gröbner Bases"

2025   (Invited Research Talk) AMS Fall Southeastern Sectional Meeting, University of Georgia Southern "Homological Associativity of Differential Graded Algebras and Gröbner Bases"

Expository Notes

Algebra: `https://github.com/mnelso32/Expository-Notes/blob/main/Algebra.pdf`

Analysis: `https://github.com/mnelso32/Expository-Notes/blob/main/Analysis.pdf`

Geometry: `https://github.com/mnelso32/Expository-Notes/blob/main/Geometry.pdf`

Number Theory: `https://github.com/mnelso32/Expository-Notes/blob/main/NumberTheory.pdf`

Algebraic Topology: `https://github.com/mnelso32/Expository-Notes/blob/main/AlgebraicTopology.pdf`