Matthew H. Hamil □ +1 (678) 471 9762 • ⊠ matthewhamil@protonmail.com

Education	
University of Georgia B.S. in Mathematics	Athens, GA 2016–2019
University of Georgia <i>M.A. in Mathematics</i> Advisors: Brian Boe and Arik Wilbert; Thesis: <i>On parabolic Kazhdan–Lusztig polynomials</i>	Athens, GA 2019–2020
University of Georgia <i>Ph.D. in Mathematics</i> Advisor: Daniel K. Nakano; Thesis: <i>On localizing subcategories of Lie superalgebra representation</i>	Athens, GA 2020–2025
Research	
Research in Combinatorial Representation Theory <i>University of Georgia</i> Working with Arik Wilbert to give a diagrammatic description of type $A_n, A_{n-k} \times A_k$ patusztig polynomials. Master's thesis.	2020-2021 arabolic Kazhdan–
Doctoral Research in Algebra <i>University of Georgia</i> Working with Daniel K. Nakano on problems in the representation theory of Lie superalge	2021-2025 bras.
Papers and Preprints	
<i>The Homological Spectrum and Nilpotence Theorems for Lie Superalgebra Representations</i> joint with Daniel K. Nakano. Provisionally accepted in <i>Journal of Algebra</i> . arXiv:2404.04457	July 2024
<i>On localizing subcategories of Lie superalgebra representations</i> Submitted. arXiv:2503.13639	<i>May</i> 2025
Research Talks	
13th Southeastern Lie Theory Workshop <i>Stratifying rings for the stable category of modules over detecting Lie subalgebras.</i> North Carolina State University	Raleigh, NC May 2023
AMS Fall Southeastern Sectional Meeting <i>Nilpotence theorems via homological residue fields for Lie superalgebra representations</i> University of South Alabama	Mobile, AL October 2023
University of Georgia Algebra Seminar <i>A nilpotence theorem via homological residue fields for Lie superalgebra representations</i> University of Georgia	Athens, GA November 2023
14th Southeastern Lie Theory WorkshopChaHomological spectrum and nilpotence theorems for Lie superalgebra representationsUniversity of Virginia	arlottesville, VA March 2024
AMS Spring Western Sectional Meeting Sa The homological spectrum and nilpotence theorems for Lie superalgebra representations Sa	n Francisco, CA May 2024

San Francisco State University	
Joint Mathematics Meeting	Seattle, WA
Classifying localizing subcategories of Lie superalgebra representations	January 2025
Seattle Convention Center	-
15th Southeastern Lie Theory Workshop	Charleston, SC
Localizing subcategories of Lie superalgebra representations in Type A	<i>May</i> 2025
College of Charleston	

Conferences Attended

AMS Spring Southeastern Sectional Meeting	Atlanta, GA
Georgia Institute of Technology	March 2023

Service

Mathematics Department Graduate Student Orientation University of Georgia Organizer, speaker	Athens, GA <i>August</i> 2022, 2023, 2024
Representation Theory and Related Geometry: Progress and Prospects	Athens, GA
University of Georgia	<i>May</i> 2024
Local organizer	, i i i i i i i i i i i i i i i i i i i

Teaching

University of Georgia	Athens, GA
MATH 1113: Precalculus	2021-2024
Instructor of Record. 5 sections	
University of Georgia	Athens, GA
MATH 2250: Calculus I for Science and Engineering	2021-2024
Instructor of Record. 2 sections	
University of Georgia	Athens, GA
MATH 2250E: Calculus I for Science and Engineering	Summer 2024
Instructor of Record. 1 section. Online.	
University of Georgia	Athens, GA
MATH 2260: Calculus II for Science and Engineering	2025
Instructor of Record. 1 section.	

Distinctions

University of Georgia <i>Hollingsworth Award</i> Departmental awards for the top performing student in Introduction to Higher Mathematics.	Athens, GA 2016–2017
University of Georgia	Athens, GA
Charles M. Strahan Award	2019
Awarded annually by the department for outstanding junior mathematics majors.	

Employment

Five Points Prep
Mathematics and English Tutor

University of Georgia *Graduate Teaching Assistant* Watkinsville, Georgia 2018-2019

> Athens, Georgia 2020-Present

Skills

Programming languages: Basic familiarity with Java, GAP, Python, LATEX, and HTML/CSS. **Other**: Proficient in Portuguese.