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

Education	
University of Georgia B.S. in Mathematics	<b>Athens, GA</b> 2016–2019
<b>University of Georgia</b> M.A. in Mathematics Advisors: Brian Boe and Arik Wilbert; Thesis: <i>On parabolic Kazhdan–Lusztig polynomials</i>	<b>Athens, GA</b> 2019–2020
<b>University of Georgia</b> Ph.D. in Mathematics Advisor: Daniel K. Nakano; Thesis: On localizing subcategories of Lie superalgebra representatio	Athens, GA 2020–2025
Research	
<b>Research in Combinatorial Representation Theory</b> University of Georgia Working with Arik Wilbert to give a diagrammatic description of type $A_n, A_{n-k} \times A_k$ par Lusztig polynomials. Master's thesis.	2020-2021 rabolic Kazhdan
<b>Doctoral Research in Algebra</b> <i>University of Georgia</i> Working with Daniel K. Nakano on problems in the representation theory of Lie superalgeb	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	
<b>13th Southeastern Lie Theory Workshop</b> <i>Stratifying rings for the stable category of modules over detecting Lie subalgebras.</i> North Carolina State University	Raleigh, NC May 2023
<b>AMS Fall Southeastern Sectional Meeting</b> <i>Nilpotence theorems via homological residue fields for Lie superalgebra representations</i> University of South Alabama	<b>Mobile, AI</b> October 2023
<b>University of Georgia Algebra Seminar</b> A nilpotence theorem via homological residue fields for Lie superalgebra representations University of Georgia	Athens, GA November 2023
	arlottesville, VA March 2024
	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 College of Charleston	<i>May</i> 2025
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### **Conferences Attended**

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

#### Service

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

# 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

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

## 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.