Alejandro Ginory

	Department of Mathematical Sciences The University of Alabama in Huntsville a.ginory@uah.edu		
Education	Rutgers University, New Brunswick, NJ		
	Ph.D., Mathematics, May 2019		
	 Dissertation: On Two Problems in Representation Theory: Fusion Algebras for Twisted Affine Lie Algebras and Jack Polynomial Identities Advisor: Siddhartha Sahi, Ph.D 		
	Florida International University, Miami, FL		
	B.S., Mathematics, December 2011		
Teaching Experience	LecturerSIDepartment of Mathematical Sciences, UAHAssistant Teaching ProfessorHAssistant Teaching ProfessorHDepartment of Mathematics, Rutgers UniversityH	pring 2023 - present Fall 2020 - Fall 2022	
	Some Courses Taught:		
	• Calculus I or Calculus A		
	• Calculus II or Calculus B		
	• Multivariable Calculus (Cal III or Cal C)		
	• Ordinary Differential Equations		
	• Intro to Linear Algebra		
	• Linear Algebra		
	• Algebraic Structures		
	• Introduction to Math Reasoning		
	• Intro to Number Theory		
	• Intro to Graph Theory		
	• Introduction to Mathematical Probability		
	• Applied Linear Algebra (graduate level)		
	Instructor , Rutgers Young Scholars Program, Rutgers University Number Theory and Cryptography Courses	July 2017-2023	
SERVICE	• Calculus Coordinator at UAH (Summer 2023 - present)		
	• Director of Math Help Center (tutoring center serving all of Rutgers, 2022)		
	• Member of the Rutgers P2C2 program (proposing and implementing evidence- based teaching techniques for courses from Precalculus to Calculus 2, 2021-2022)		
	• Calculus II Coordinator (Summer 2021)		

Mentoring	Directed Reading Program, Rutgers University. Topics: Associative Algebras, Experimental Mathematics and Lie Algebra Characters, Representation theory of finite groups, Differential Geometry and Category Theory		
	Aresty Undergraduate Research Program, Rutgers University Fall Topic: Integration over Compact Matrix Groups	2015, Spring 2016	
	DIMACS REU, Rutgers University Topic: Knot Theory and Link Homology	Summer 2013	
Research Interests	Representation theory, combinatorics, Lie theory, non-commutative algebra, vertex operator algebras, symmetric functions, machine learning		
Computer Programming	 Python: scikit-learn, numpy, pandas, etc.; Mathematica; Maple; MATLAB; Java A. Ginory and J. Kim, Weingarten Calculus and the IntHaar Package for Integration over Compact Matrix Groups, 2019. (Journal of Symbolic Computation) 		
Papers			
Presentations and Talks	 Some Talks Some Positivity Conjectures for Jack Polynomials CAGE: Philadelphia Area Combinatorics and Alg. Geometry Seminar, Philadelphia, PA Oct 2019 Fusion Algebras and Twisted Affine Lie Algebras Coomptric Matheds in Rep. Theory Seminar UNC. Chapel Hill Nov. 16, 2018 		
	 Visualizing Mathematical Reasoning: A Diagrammatic Approach MAA MathFest 2017, Chicago, IL 	July 2017	
	• Double Affine Weyl Groups and Modular Invariance Am.Math.Soc. (AMS) Chapter Seminar, Stony Brook University	Mar 2017	
	• Symmetric Functions and Knop-Sahi Polynomials Florida International University Summer Colloquium	July 2015	