Research Interests	Measure theoretical and topological dynamics, particularly rotation theory from a ho- motopical setting. Other interests in data science, financial mathematics, and mathe- matics education.	
Education	University of Alabama at Birmingham	
	Ph.D. in Applied Mathematics, December 2016	
	 Dissertation Topic: Homotopical Complexity of Billiard Models Advisor: Nándor Simányi GAANN-supported Minor in Computer Science, 18 graduate credit hours M.S. in Mathematics, May 2013 	
	Randolph College	
	B.S. in Mathematics, B.A. in Religious Studies, May 2011	
	 summa cum laude, ΦBK Catherine I. Hastings Award in Mathematics 	
Papers	C. Moxley and N. Simányi, <i>Homotopical complexity of a 3D billiard flow</i> , accepted in Contemporary Mathematics in (May 2016).	
	C. Moxley and N. Simányi, Entropy of a flow on the 3D flat torus with two disjoint orthogonal scatterers, submitted.	
	C. Moxley, Entropy of a flow on the 3D flat torus with two intersecting orthogonal scatterers, in preparation.	
Conference Talks	Homotopical complexity of two billiard models, AMS Southeastern Sectional Meeting, University of Georgia. (March 2016)	
	Homotopical complexity of two billiard models on the $3D$ flat torus, 28^{th} Applied Mathematics Meeting, University of Alabama in Huntsville. (November 2015)	
	On the rotation set of a 3D flat torus with three obstacles, AMS Southeastern Sectional Meeting , University of Alabama in Huntsville. (March 2015)	
Other Talks	Large deviations, University of Alabama at Birmingham, Stochastic Processes Seminar (February 2016)	
	An easy proof of the ergodic theorem, University of Alabama at Birmingham, Stochastic Processes Seminar (October 2015)	
	How to pass your qualifying exams, SIAM-SEAS , University of Alabama at Birmingham. (March 2015)	

Teaching Experience	~	Visiting Assistant Professor, Randolph College Adjunct Professor, Birmingham-Southern College GTA, University of Alabama at Birmingham Adjunct Lecturer, Samford University ge algebra, quantitative reasoning, intermediate algebra, pre-calculus al- s, single variable calculus (Calculus I and II), business calculus, topology.
Professional Travel	May 2016	Summer School on Dynamical Systems, University of Houston, NSF-supported
Relevant Skills	Languages: Programming:	English, French Java, HTML, R, SQL, MATLAB, Python
References	(205)934-2154, Walter Johns abama at Birm Heather Lan (205)934-9063, Bernadette M	 anyi, Professor of Mathematics, University of Alabama at Birmingham, simanyi@uab.edu son, Introductory Mathematics Curriculum Director, University of Alaingham, (205)934-2154, wjhmath@uab.edu d, Mathematics Lab Director, University of Alabama at Birmingham, hland@uab.edu Aullins, Wadsworth Area Chair and Professor of Mathematics, Birmingham-ege, (205)226-3026, bmullins@bsc.edu