Bradley Elliott

CONTACT INFORMATION	Emory University Department of Mathematics			
INFORMATION	Math and Science Center N406			
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Academic Interests	Extremal graph theory, structural graph theory, hypergraphs			
Education	Emory University, Atlanta, GA			
	Mathematics PhD student with advisor Vojtěch Rödl			
	Expected graduation May 2020			
	University of Kentucky, Lexington, KY			
	Bachelor of Computer Science May 20)13		
	Master of Business Administration May 20)14		
Publications and Preprints	3. On degree sum conditions and vertex-disjoint chorded cycles with Ronald Gould and Kazuhide Hirohata. Submitted. arXiv:1911.08686			
	2. Increasing paths in countable graphs with Andrii Arman and Vojtěch Rödl. Submitted. arXiv:1905.03612			
	1. Embedding hypertrees into Steiner triple systems with Vojtěch Rödl. Journal Combinatorial Designs 27 (2019), no. 2, 82-105.	of		
Invited Talks	On degree sum conditions and vertex-disjoint chorded cycles, Discrete/Combinatorics Seminar, University of South Carolina, Columbia, South Carolina, October 25, 2019.			
	Notions of Infinite Increasing Paths, Atlanta Lecture Series XXIII, Georgia Institute Technology, Atlanta, Georgia, March 30, 2019.	e of		
SUBMITTED TALKS	Graphs with subgraphs of large girth and large chromatic number, Graduate Research Workshop in Combinatorics, Lawrence, Kansas, June 13, 2019.			
	Increasing paths in countable hypergraphs, 50th Southeastern International Conference, Florida Atlantic University, Boca Raton, Florida, March 7, 2019.			
	Embedding hypertrees into Steiner triple systems, 49th Southeastern International Conference, Florida Atlantic University, Boca Raton, Florida, March 5, 2018.	on-		
Awards	Marshall Hall Teaching Award 20 Awarded to one graduate student each year for outstanding teaching in the Emo Math Department.)20 ory		
Workshop Participation	Graduate Research Workshop in Combinatorics Summer 20 The GRWC is a two-week collaborative research workshop for advanced gradua students and postdocs from all areas of combinatorics. Participants work in sur groups with faculty on research problems from across the discipline.)19 ate ıall		

Teaching Experience	Calculus I Instructor - Emory University - Active learning	Fall 2019
	Calculus I Instructor - Emory University - Lecture Fai	ll 2016, Fall 2018
	Calculus II Instructor - Emory University Spring 2017, Fall 201	17, Summer 2018
	Discrete Structures Instructor - Emory University	Summer 2017
	Combinatorics I Instructor - QTM Math Camp Summer 202	18, Summer 2019
	Combinatorics II Instructor - QTM Math Camp	Summer 2019
	Teaching Assistant and Grader Fall 2015, Spring 2 Honors Linear Algebra, Honors Vector Calculus, Honors Calculus II Life Sciences Calculus - Emory University	016, Spring 2018, , Linear Algebra,
	Calculus Tutor - Emory University and University of Kentucky	2014-2016
Outreach	Director of Emory Math Circle [*] Sum I run a math enrichment program for 200+ middle and high school cruit and train instructors, manage the budget and facilities, plan sp communicate with the participating families.	mer 2018-present ol students. I re- pecial events, and
	Instructor at Emory Math Circle Spi I teach one of the middle school levels of the program I direct. I p semi-weekly lessons designed to teach the students problem-solving and skepticism.	ring 2017-present plan and execute g skills, curiosity,
	Instructor at QTM Math Camp Sur I teach Combinatorics at a 3-week math camp for advanced high I design the courses myself, and create the problem sets for each second and third weeks, I help the students conduct research proj posters of their results.	mmer 2018, 2019 school students. day. During the ects and prepare
	Organizer of Julia Robinson Math Festivals I have planned two Julia Robinson Math Festivals, which are designed dents explore the richness of mathematics through collaboration and of solving.	Fall 2018, 2019 gned to help stu- creative problem-
	Organizer of Women in STEM panel I recruited panelists working in science, technology, math, and eng participate on a panel, for an audience of students enrolled in Emor	Fall 2019 ineering fields to ry Math Circle.
	Education Advisor for Emory University Fraternity Sum I advise the Emory chapter of Beta Theta Pi fraternity. I meet re- chapter's VP of Education to help plan safe, meaningful program members, and also meet with the advisory team to address chapter	mer 2016-present egularly with the ns for their new -wide issues.
	Organizer of AMC-8 exam I twice hosted the MAA's AMC-8 exam for roughly 65 middle scho time.	Fall 2018, 2019 pol students each
	Organizer of Math Kangaroo Competition I hosted the Math Kangaroo exam for 52 K-12 students.	Spring 2019
	Organizer of Tri-Math Tournament competition I hosted a math competition for 24 high school students, that served event for QTM Math Camp.	Spring 2019 as a recruitment

	Moderator of a math careers panel I recruited panelists who had different levels of math education about life as a mathematician, for an audience of math-interest	Summer 2019 on and questioned them ted high school students.	
	Microteaching facilitator I was selected to run a practice-teaching session for first-y Twelve students each gave a ten-minute sample lesson, then the group.	Fall 2019 vear graduate students. received feedback from	
	Orientation panelist I was selected to serve on a panel and answer questions from in the basic sciences.	Fall 2019 from first-year grad students	
	*For more detail about Emory Math Circle, see our website http://www.mathcs.emory.edu/mathcircle/about.html		
Professional Associations	Mathematical Association of America (MAA)	2015 - present	
	American Mathematical Society (AMS)	2015 - present	
Referee Work	Combinatorica, Journal of Graph Theory		
Computing skills	Canvas; WebAssign; Programming in Sage, Python, C++, Java, MATLAB		